Federal Aviation Administration

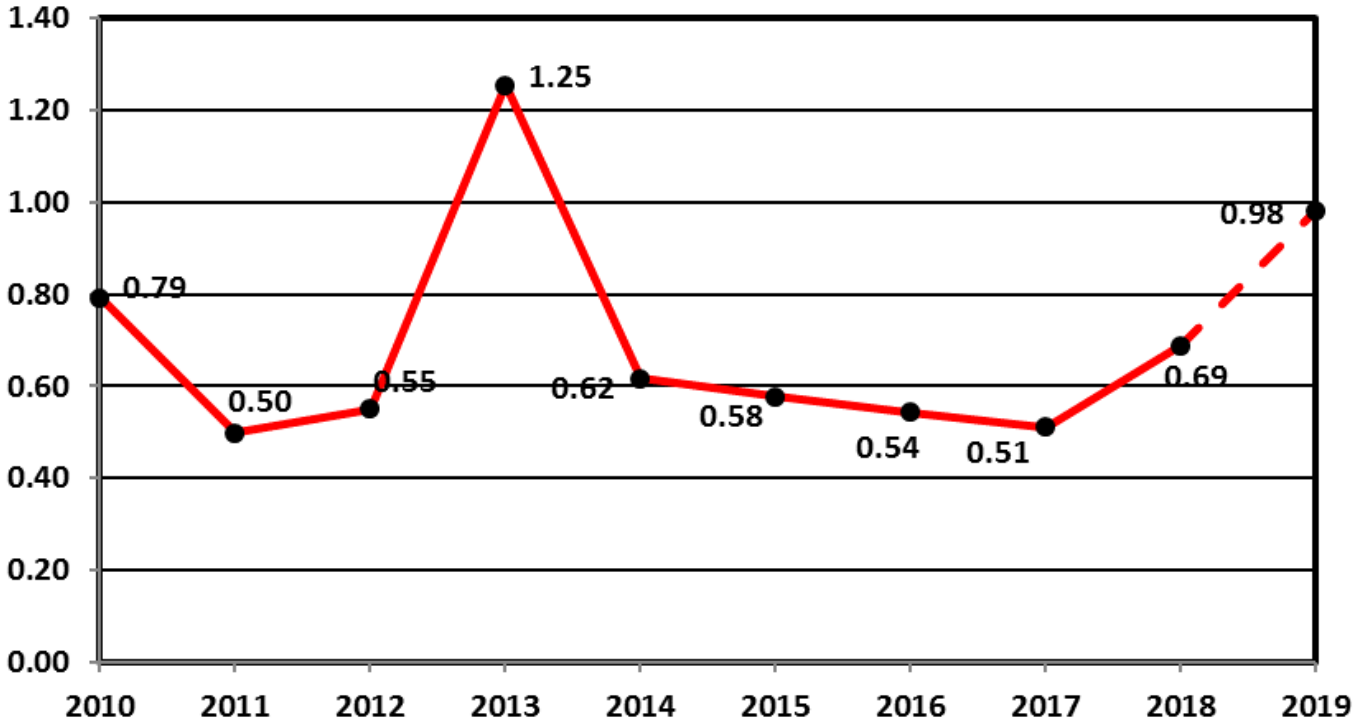
Rotorcraft Standards Branch AIR-680

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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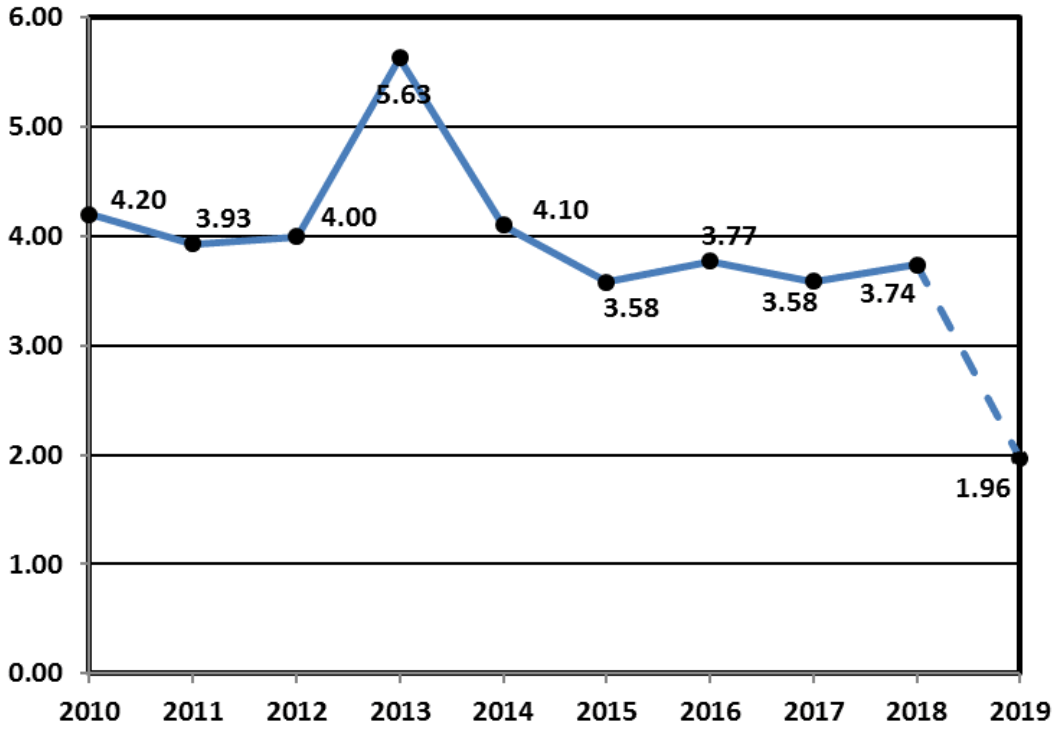

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FY 19 – U.S. Registered Rotorcraft Accidents

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

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

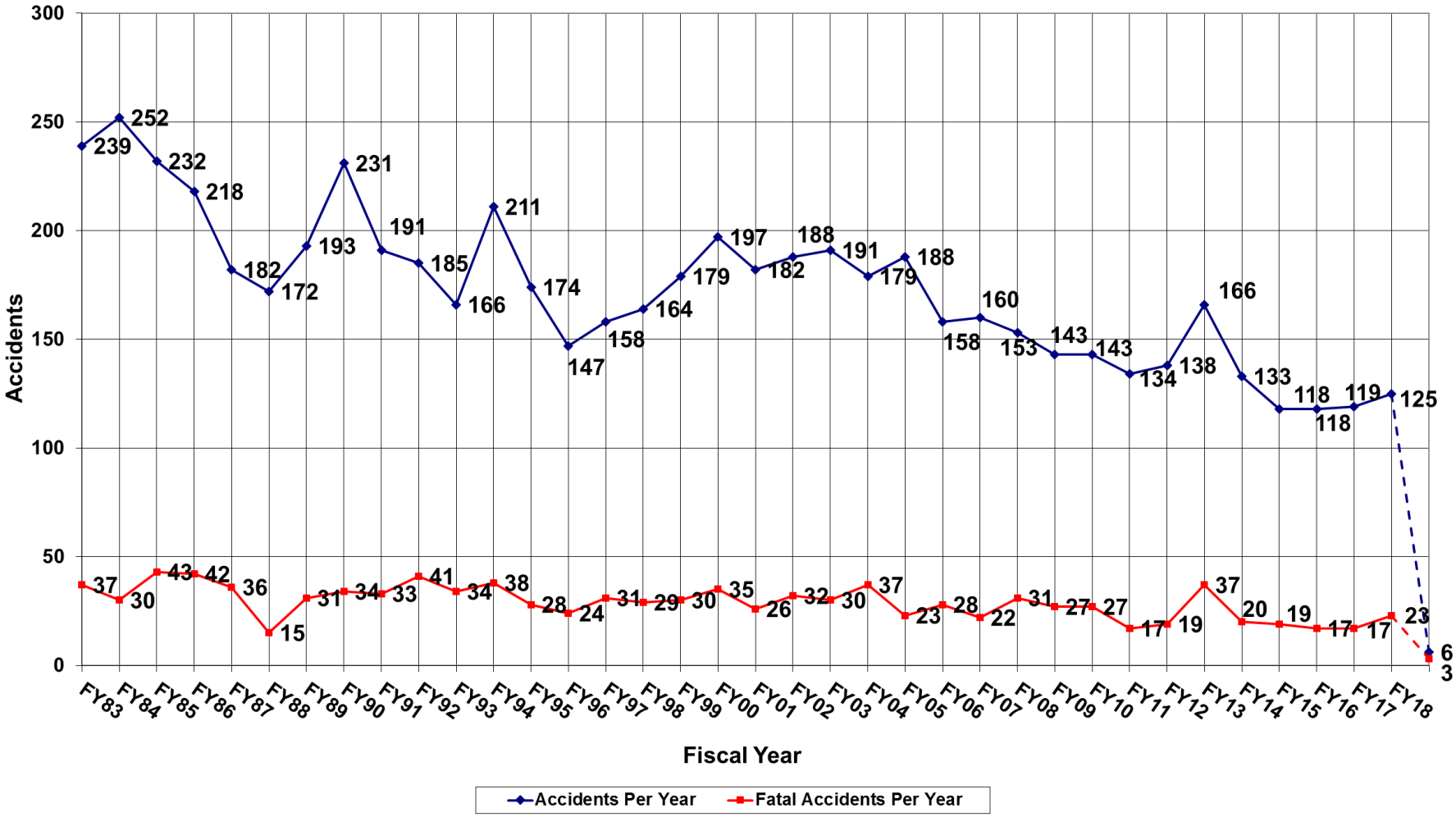
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Accidents:	6												6
Fatal:	3												3
Fatalities:	4												4

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.

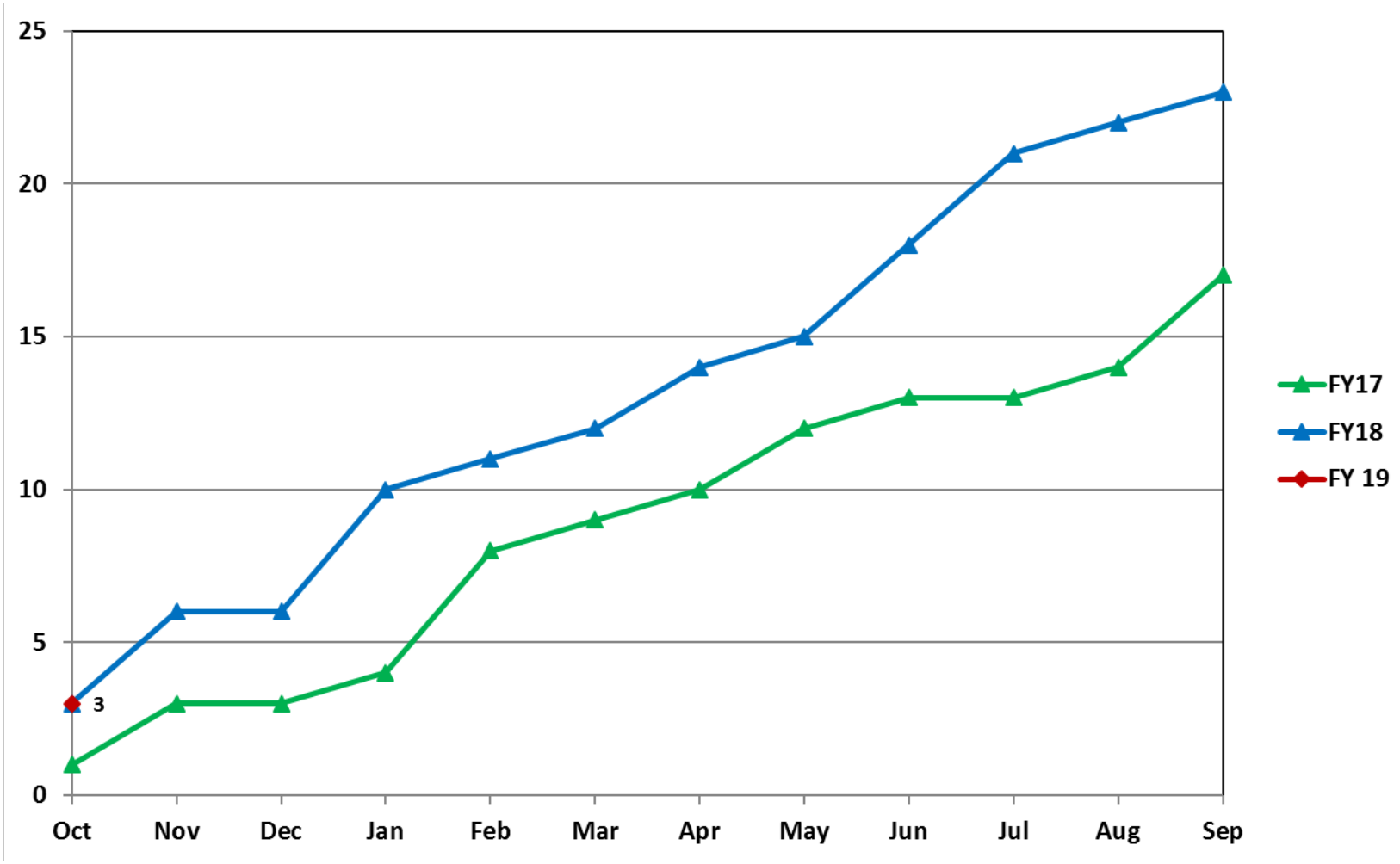
Estimated Rates by Month (per 100,000 flight hours)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	YTD
Accidents:	1.96												1.96
Fatal:	0.98												0.98
Fatalities:	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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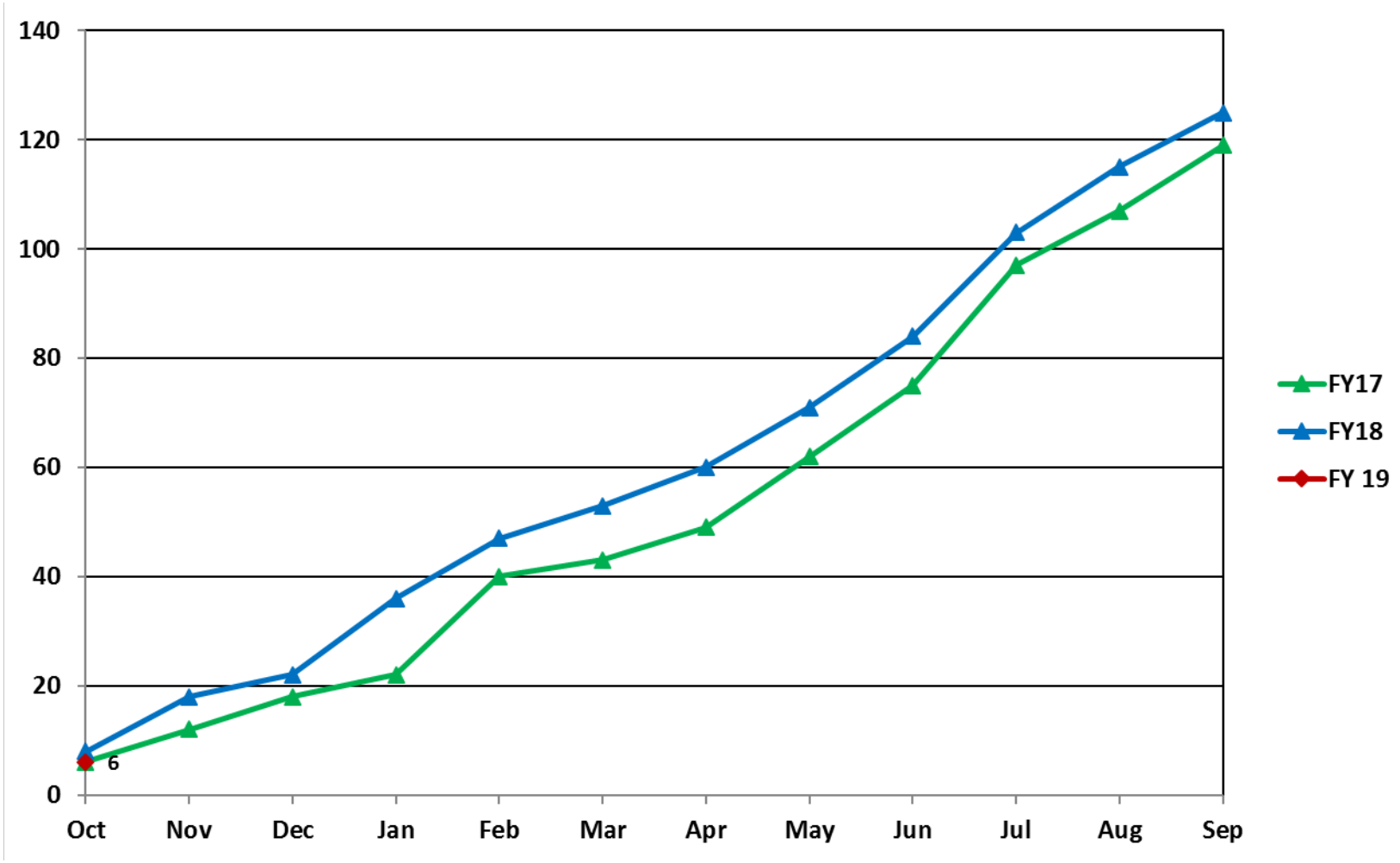
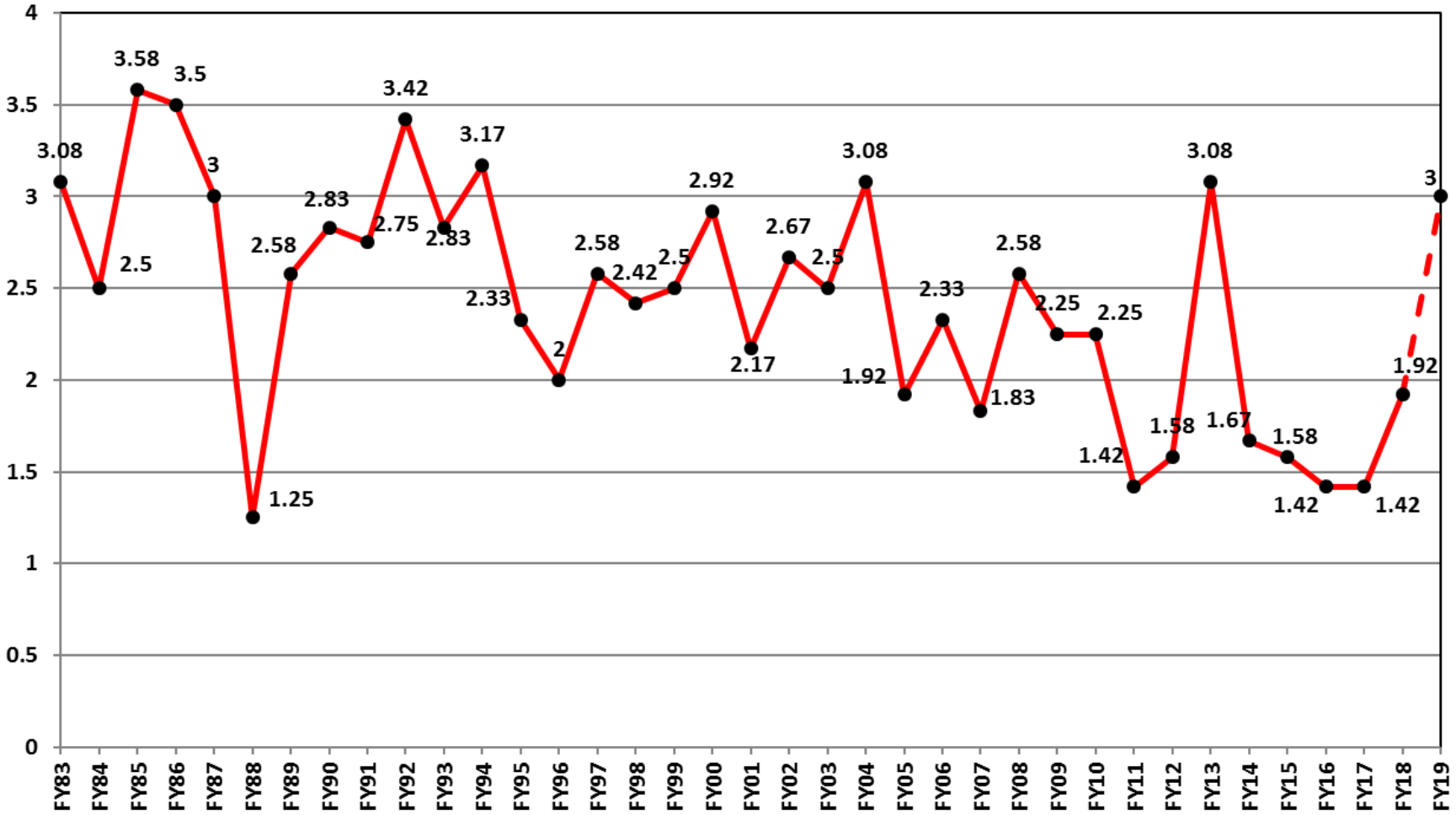
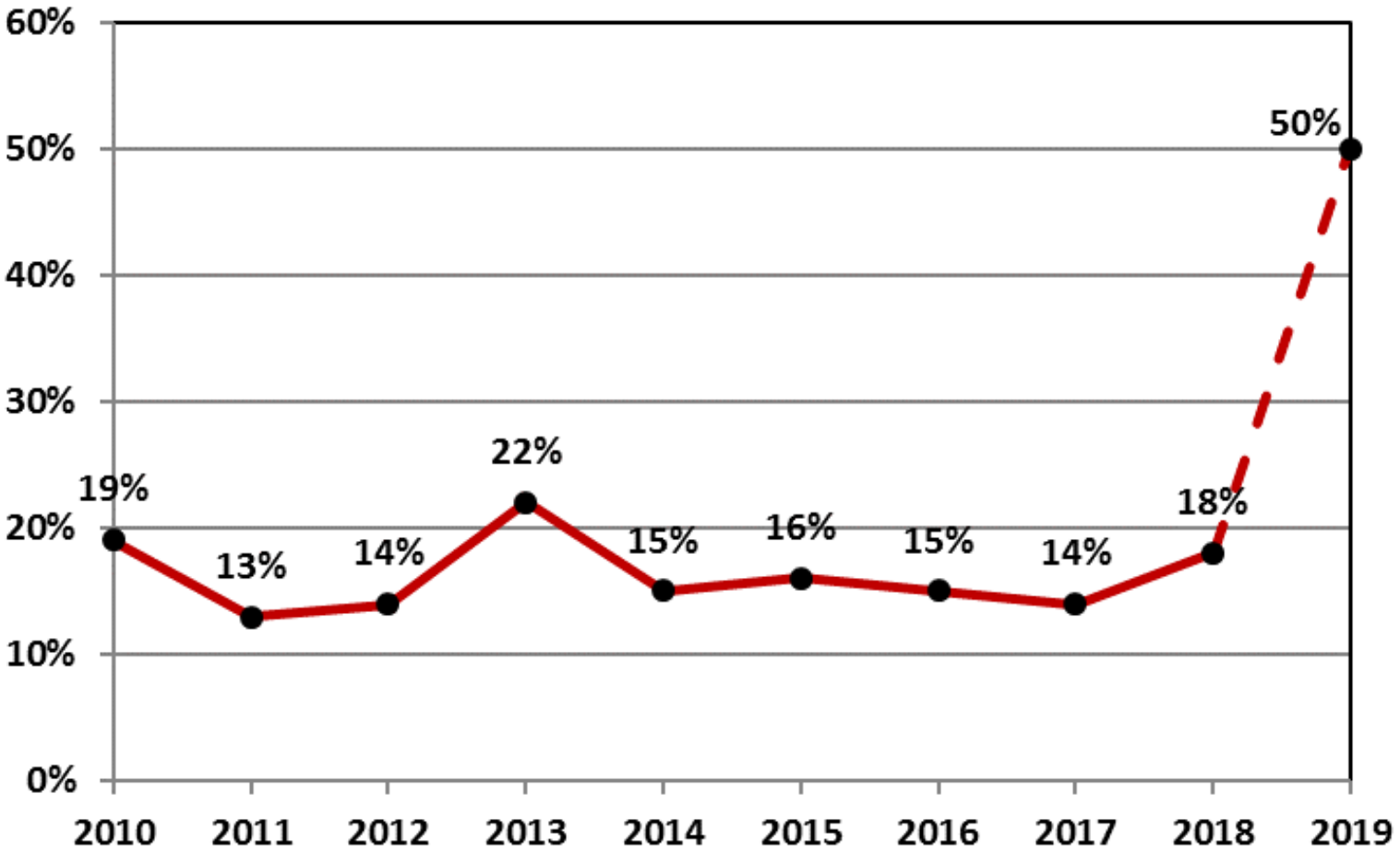


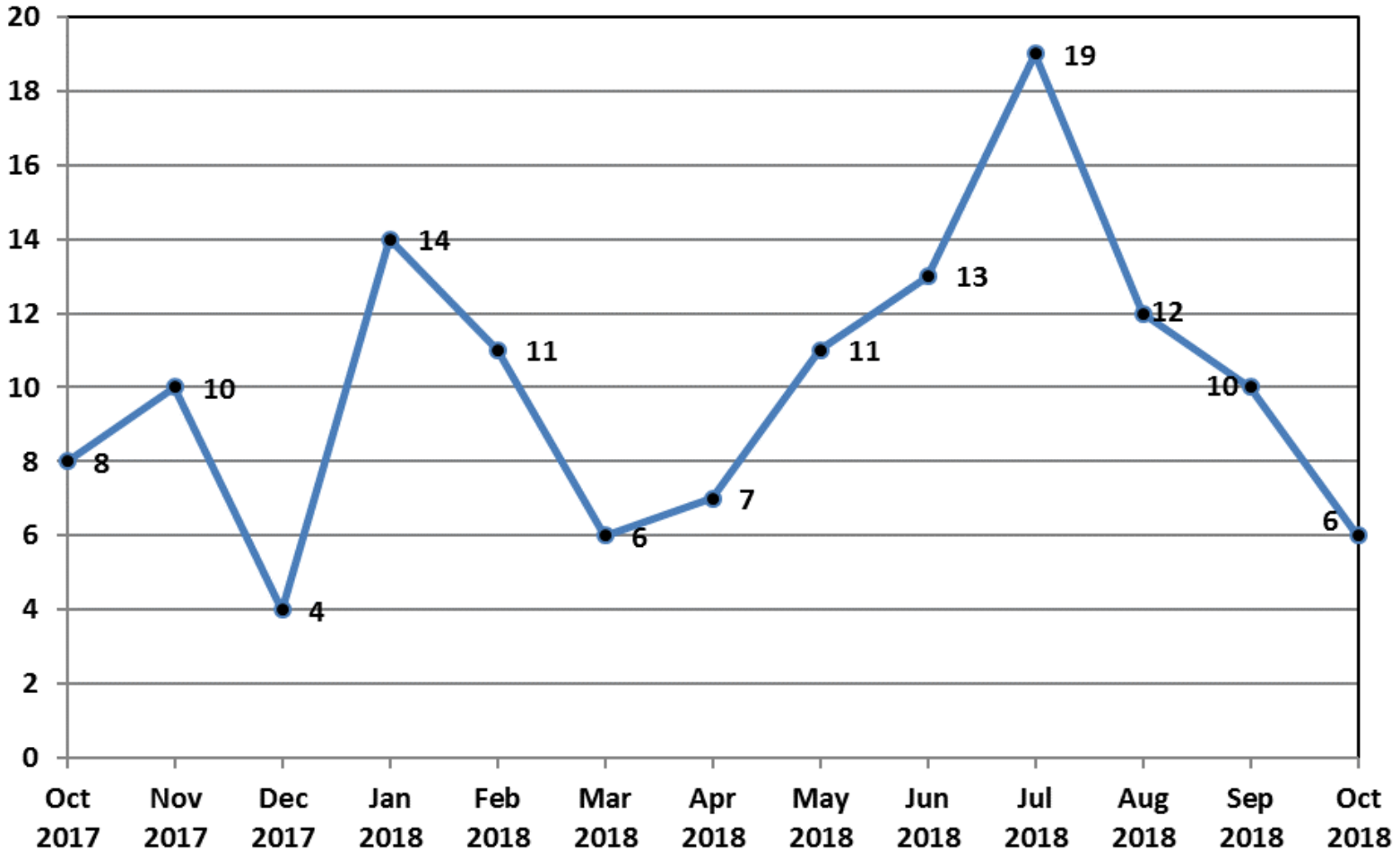
U.S. Registered Rotorcraft
Average Fatal Accidents Per Month, FY83-FY19



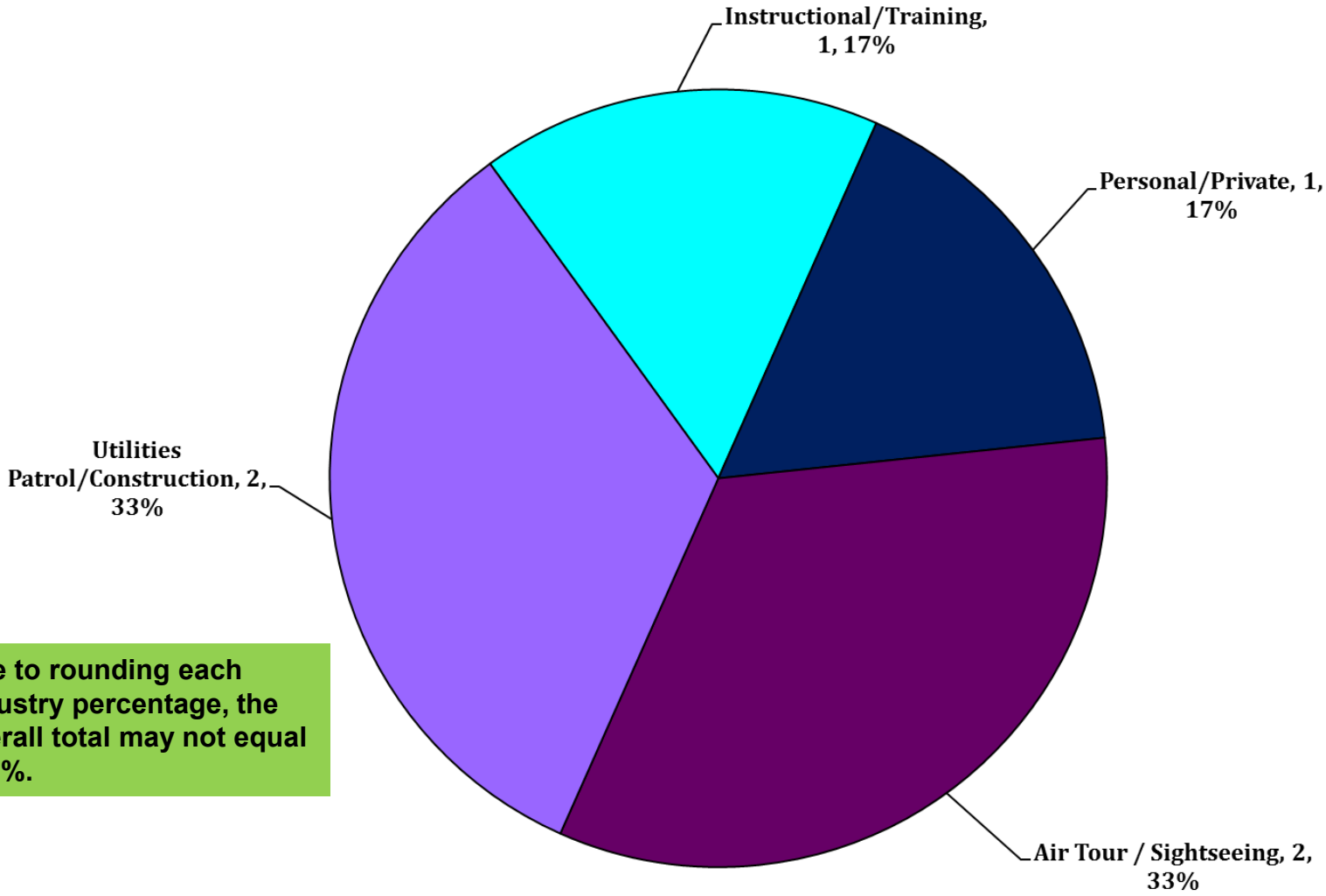
% of U.S. Rotorcraft Accidents with a Fatality (FY19, Oct only)



U.S. Registered Rotorcraft
13 Month Rolling Accident Count

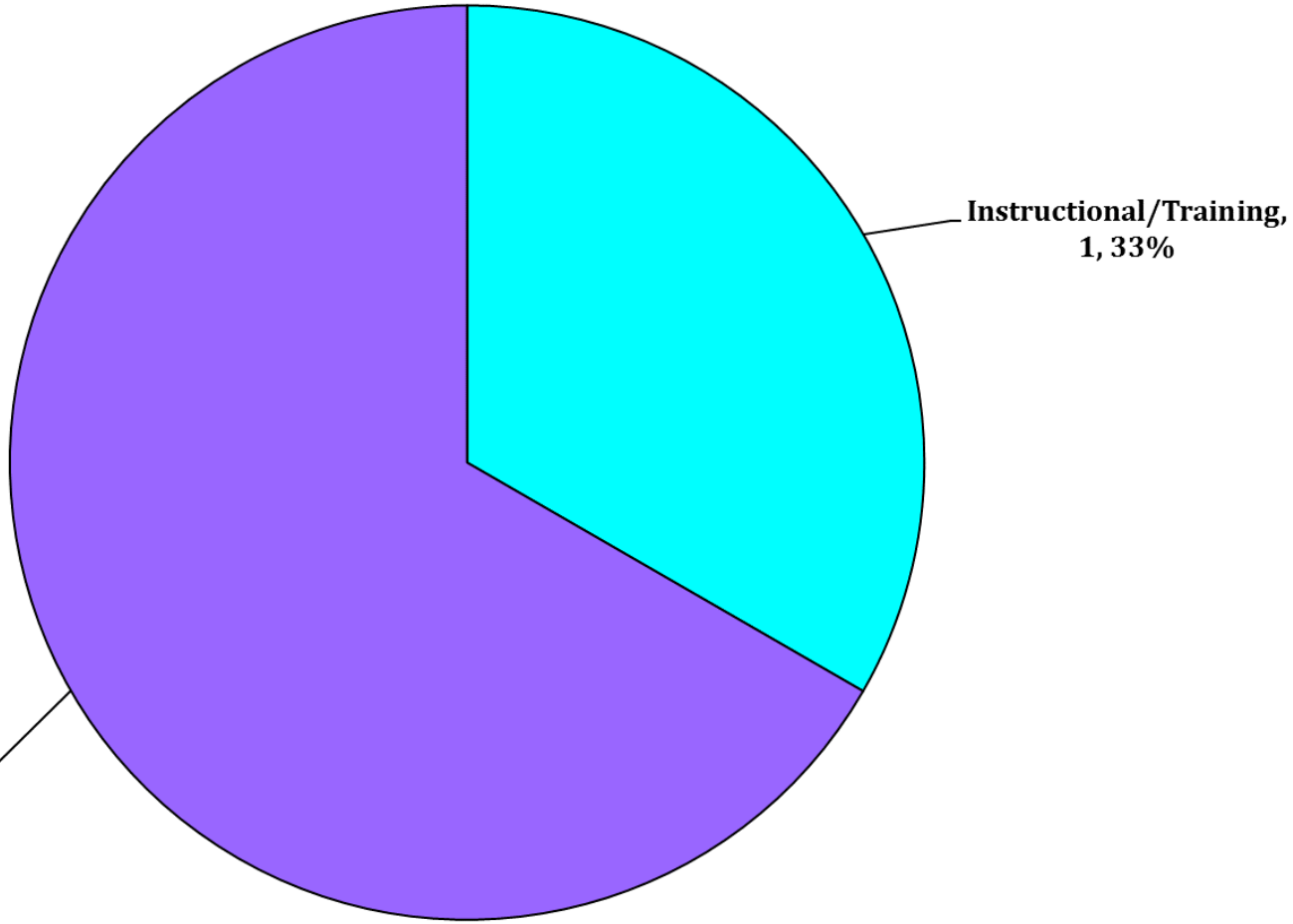


FY 19 – Total Accidents by Industry (Oct 2018)



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

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



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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
Airbus Helicopters	AS350 (H125)	918	7%	1	17%
	AS355	47	< 1%	1	17%
	BK117 (H145)	203	2%		
	EC120 (H120)	95	1%		
	EC130 (H130)	247	2%		
	EC135 (H135)	311	2%		

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

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
Bell	206Bs	1,027	8%		
	206Ls	580	5%		
	212	93	1%		
	407	722	6%		
	412	93	1%		
	429	85	1%		

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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
Robinson	R-22	910	7%	1	17%
	R-44	1,605	13%	2	33%
	R-66	249	2%		

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Sikorsky	S-76	244	2%		
	S-92	85	1%		

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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 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	A109	174	1%		
(formerly Agusta Westland)	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)