



Federal Aviation  
Administration

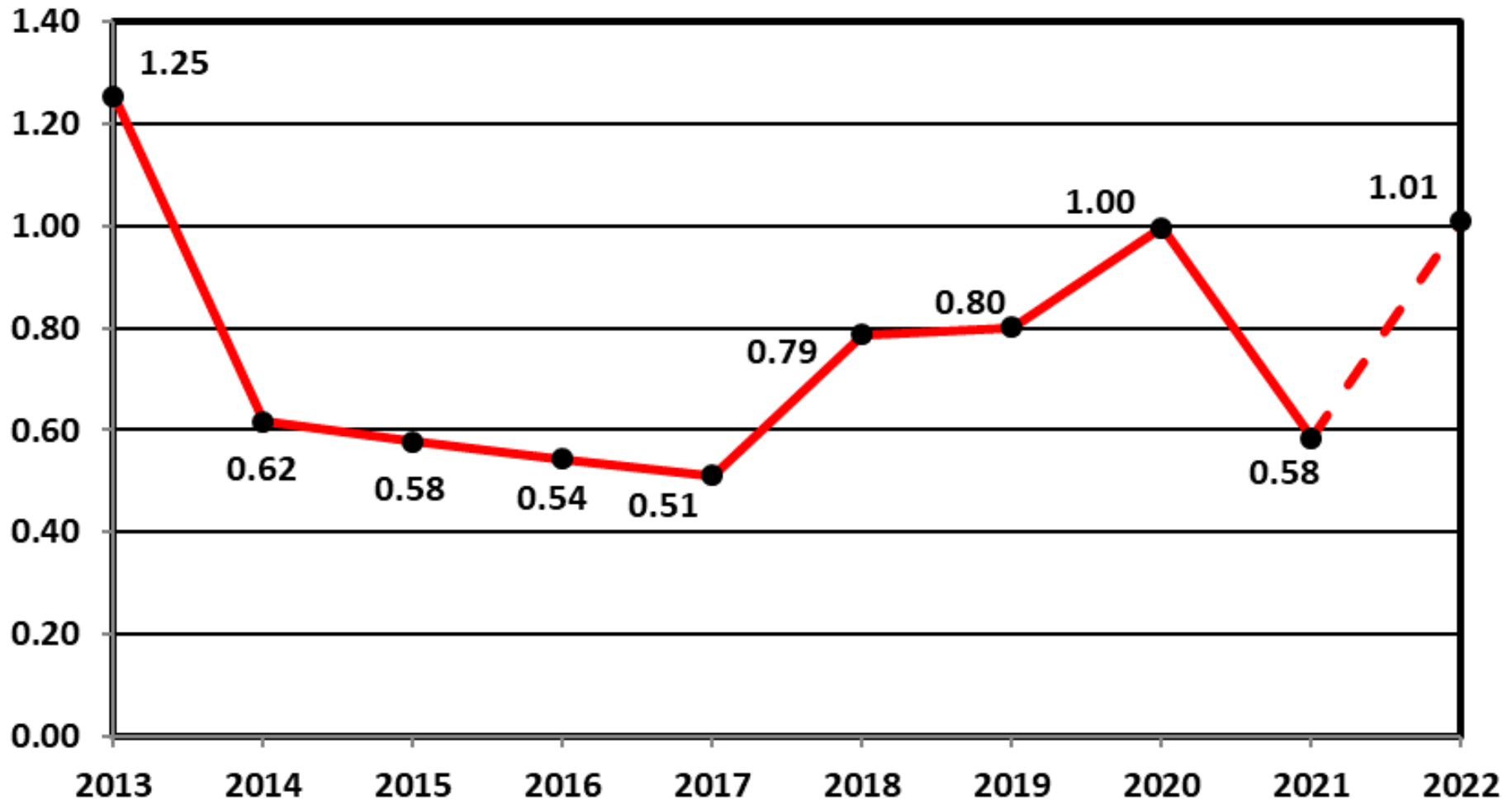
# Fleet Safety Section, AIR-723

## Rotorcraft Monthly Accident Briefing

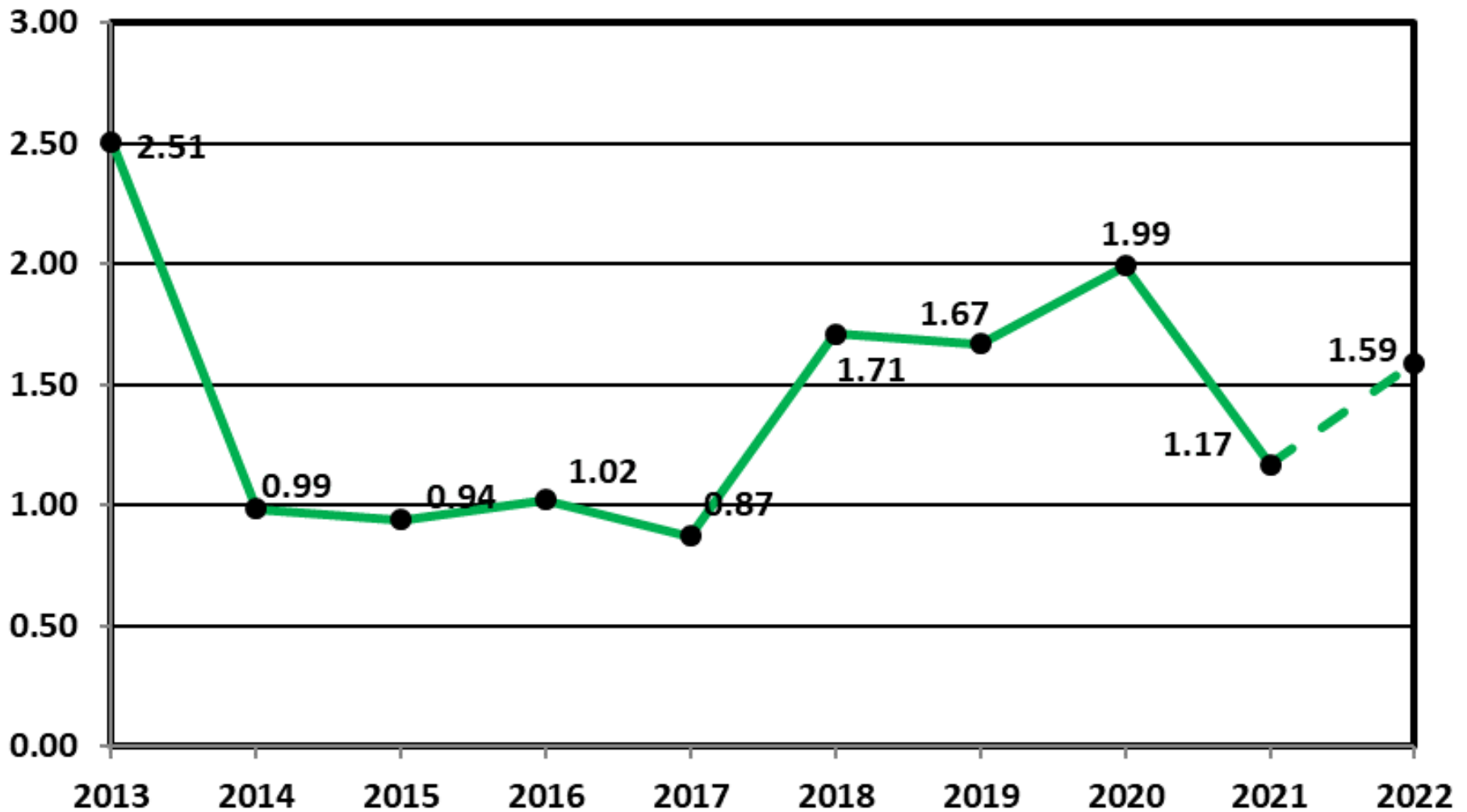
December 2021



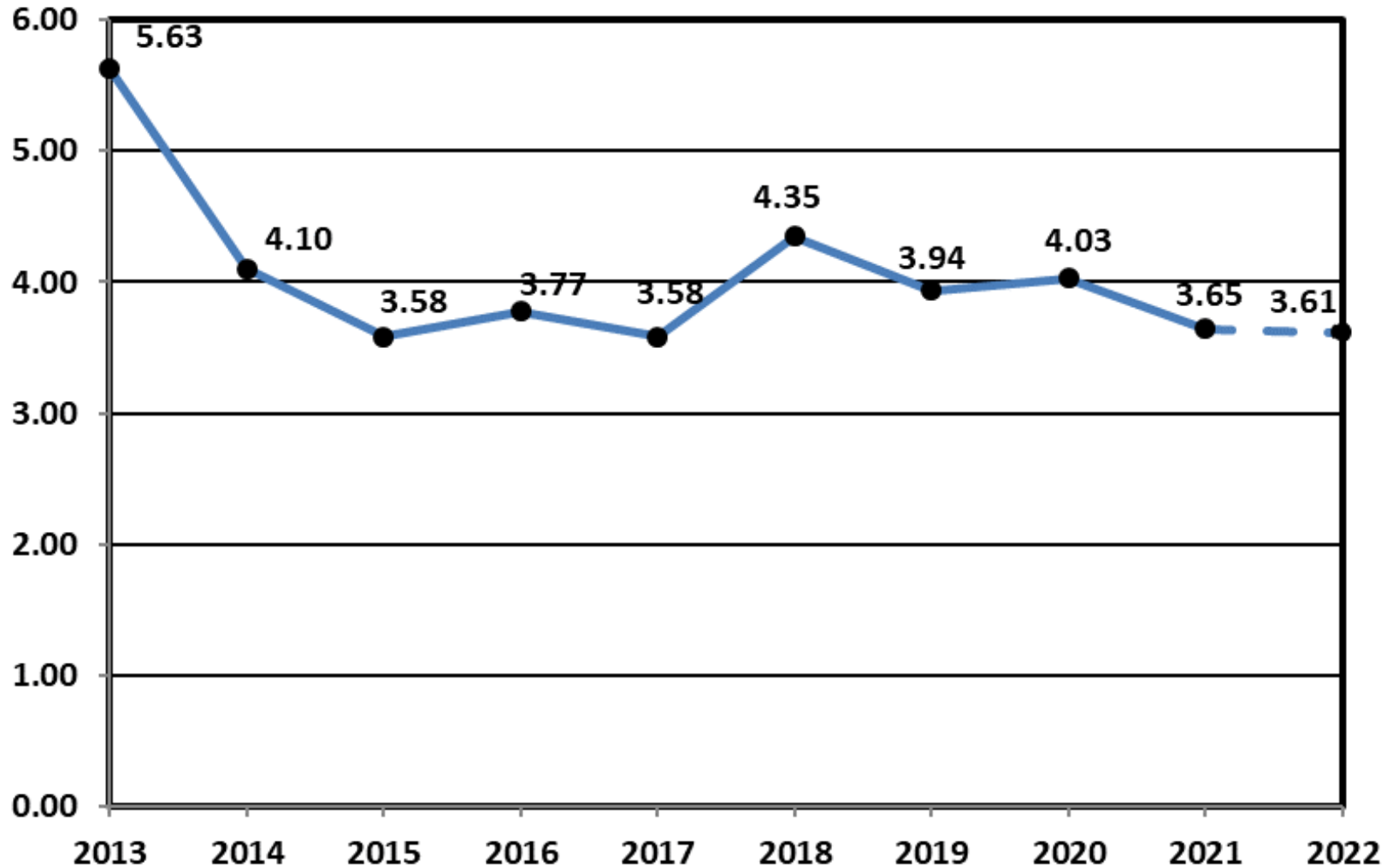
# Estimated U.S. Rotorcraft FATAL Accident Rate by FY 10 Year Lookback – Rates per 100,000 Hours



# Estimated U.S. Rotorcraft Fatality Rate by FY 10 Year Lookback – Rates per 100,000 Hours



# Estimated U.S. Rotorcraft Accident Rate by FY 10 Year Lookback – Rates per 100,000 Hours



# FY 22 – U.S. Registered Rotorcraft Event Counts

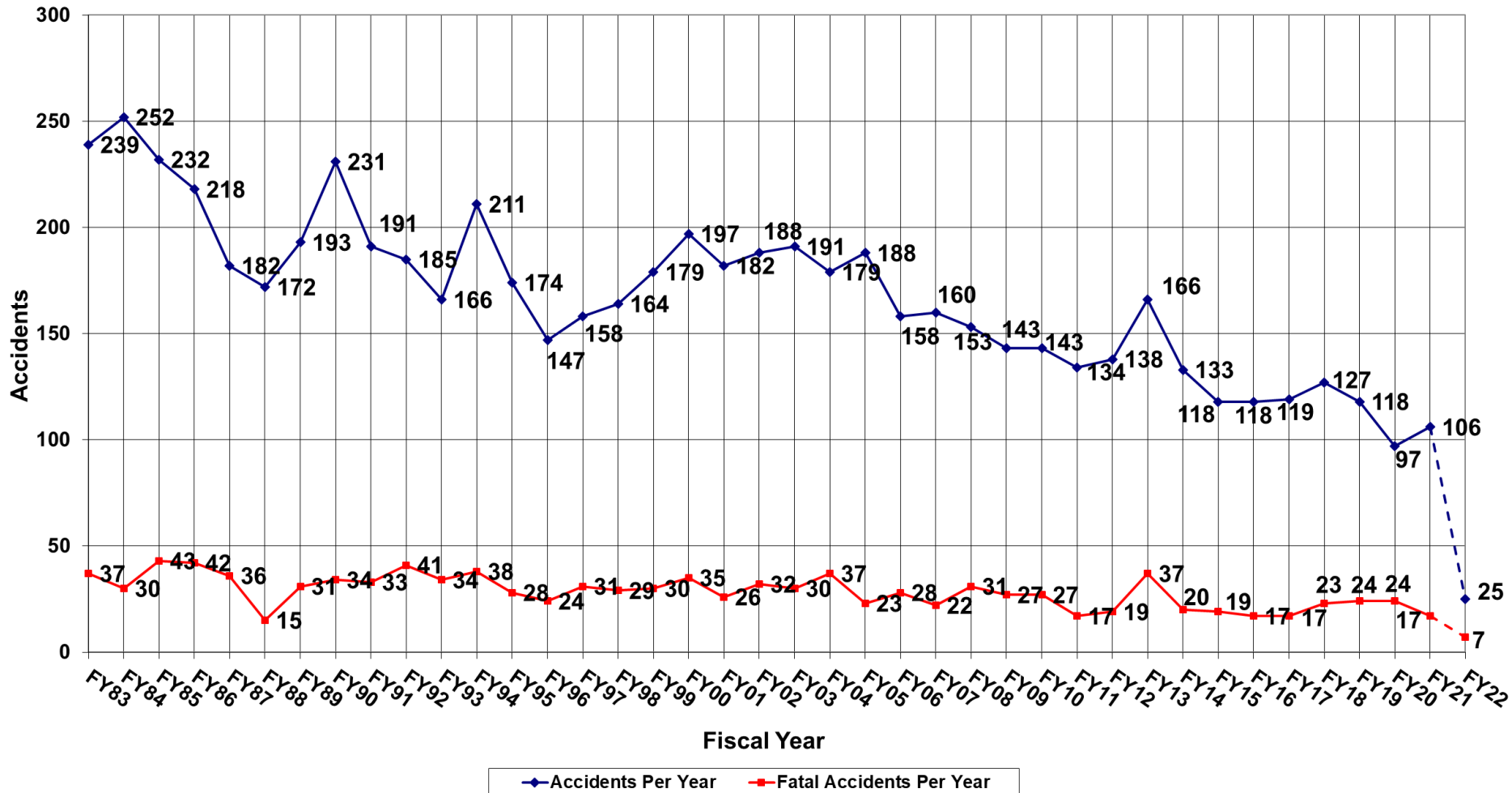
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	YTD
<b>Accidents:</b>	9	7	9										25
<b>Fatal Acc:</b>	2	1	4										7
<b>Fatalities:</b>	3	1	7										11
<b>Same time period, previous FY: 17 Accidents, 2 Fatal Accidents, 3 Fatalities</b>													

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.

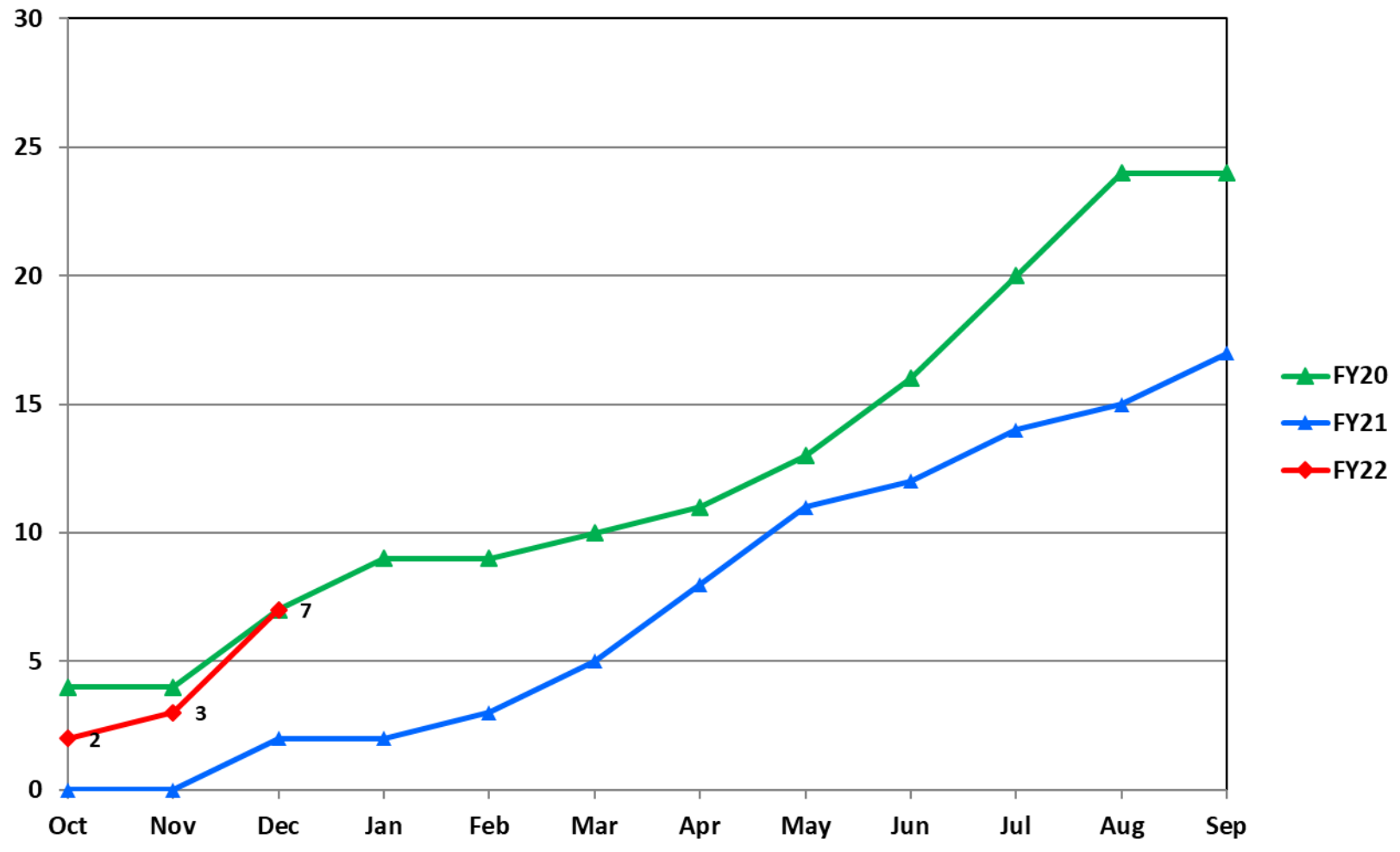
## Estimated Rates by Month (per 100,000 flight hours)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	YTD
<b>Accidents:</b>	3.38	3.24	4.52										3.61
<b>Fatal Acc:</b>	0.75	0.44	2.01										1.01
<b>Fatalities:</b>	1.13	0.44	3.52										1.59

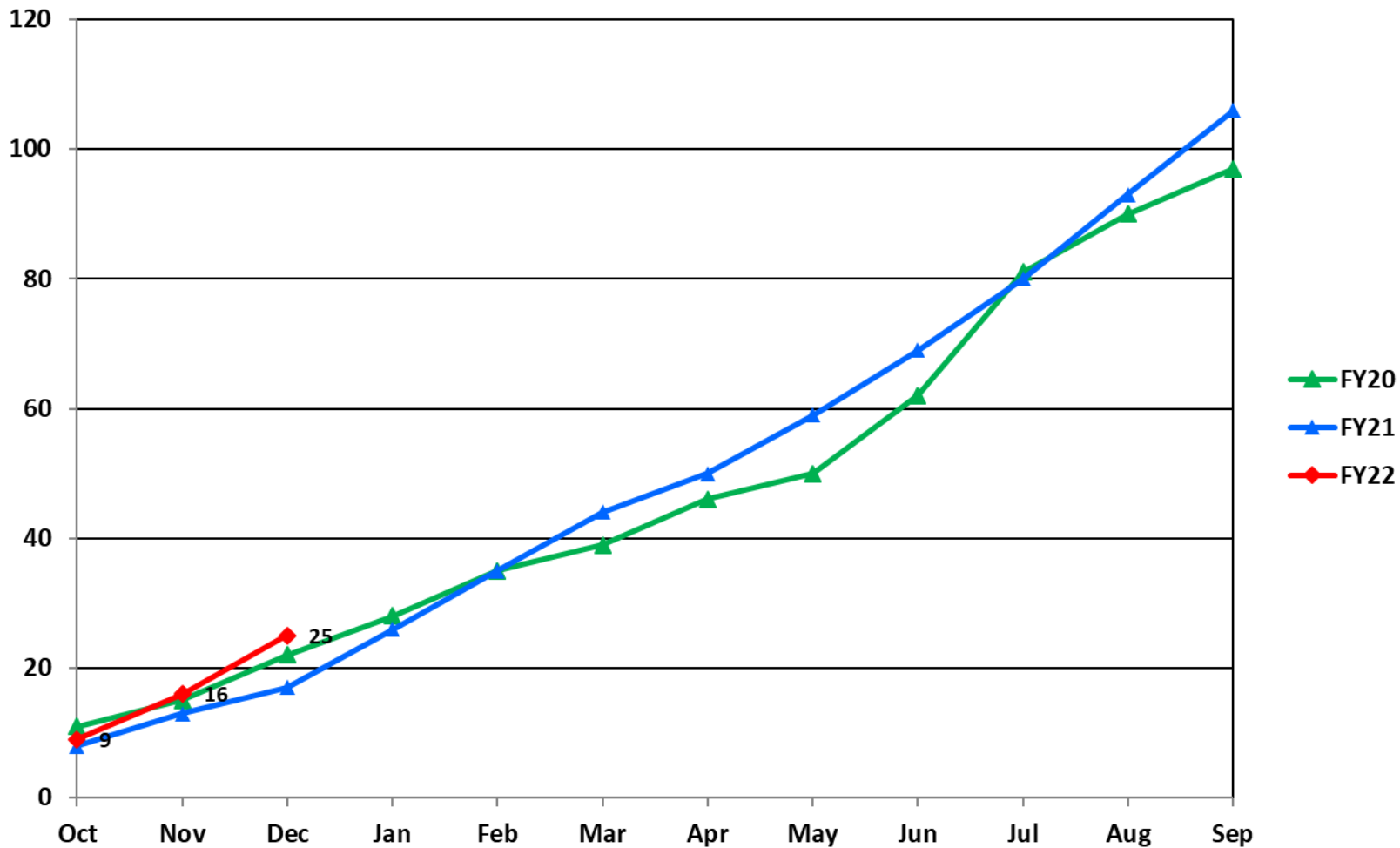
# U.S. Registered Rotorcraft Accidents FY83 - FY22



# U.S. Registered Rotorcraft Cumulative Fatal Accident Count: FY19 - FY22

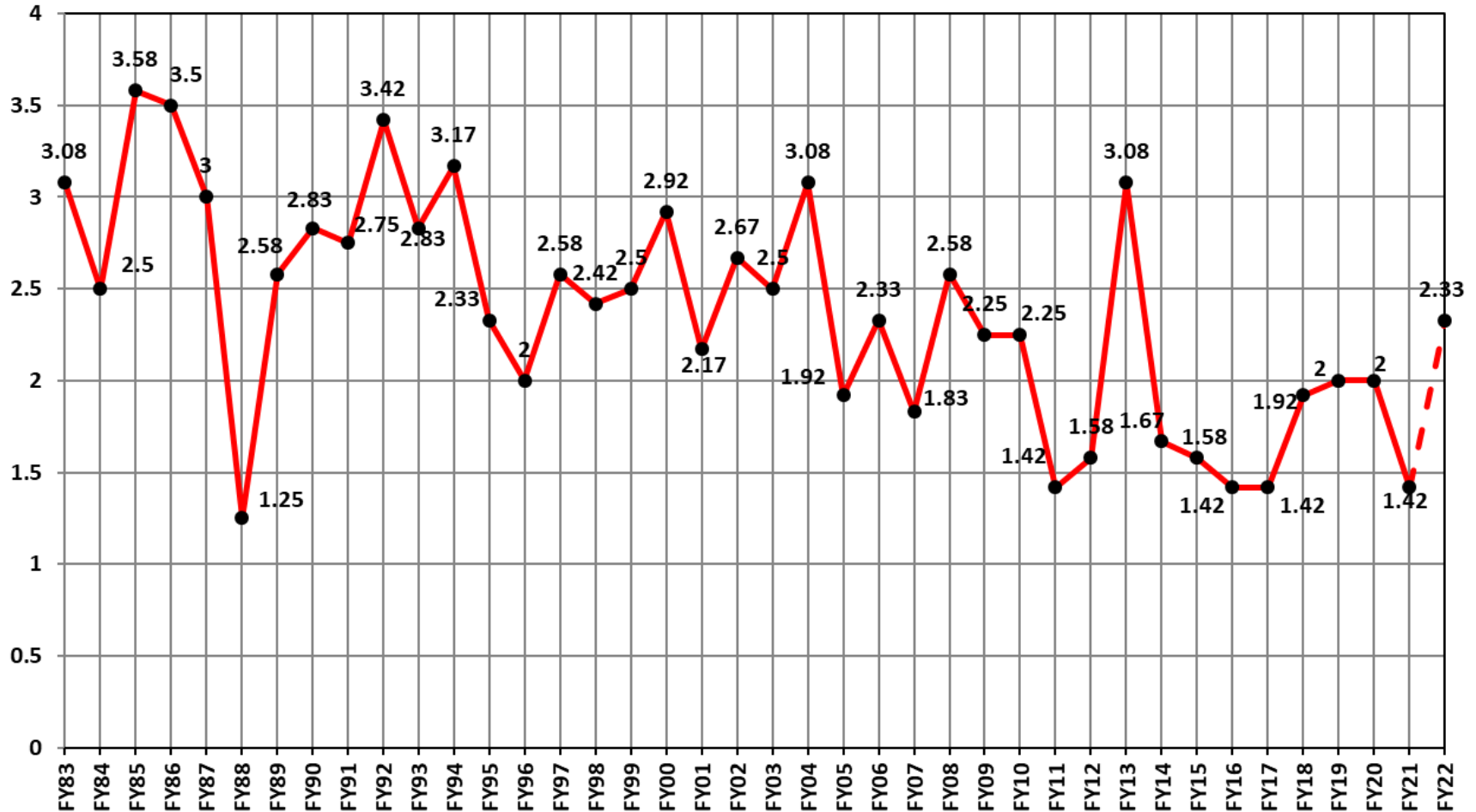


# U.S. Registered Rotorcraft Cumulative Accident Count: FY19 - FY22

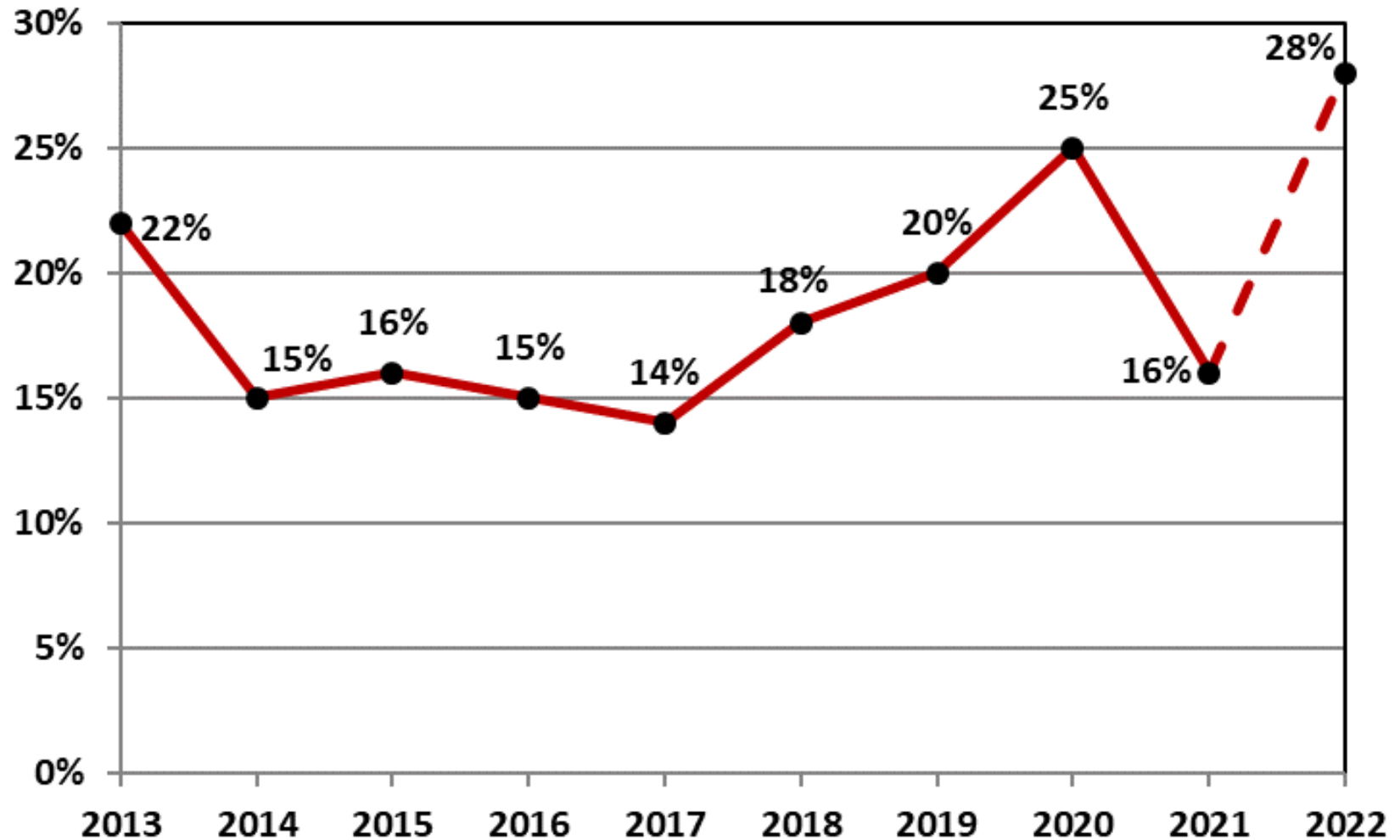




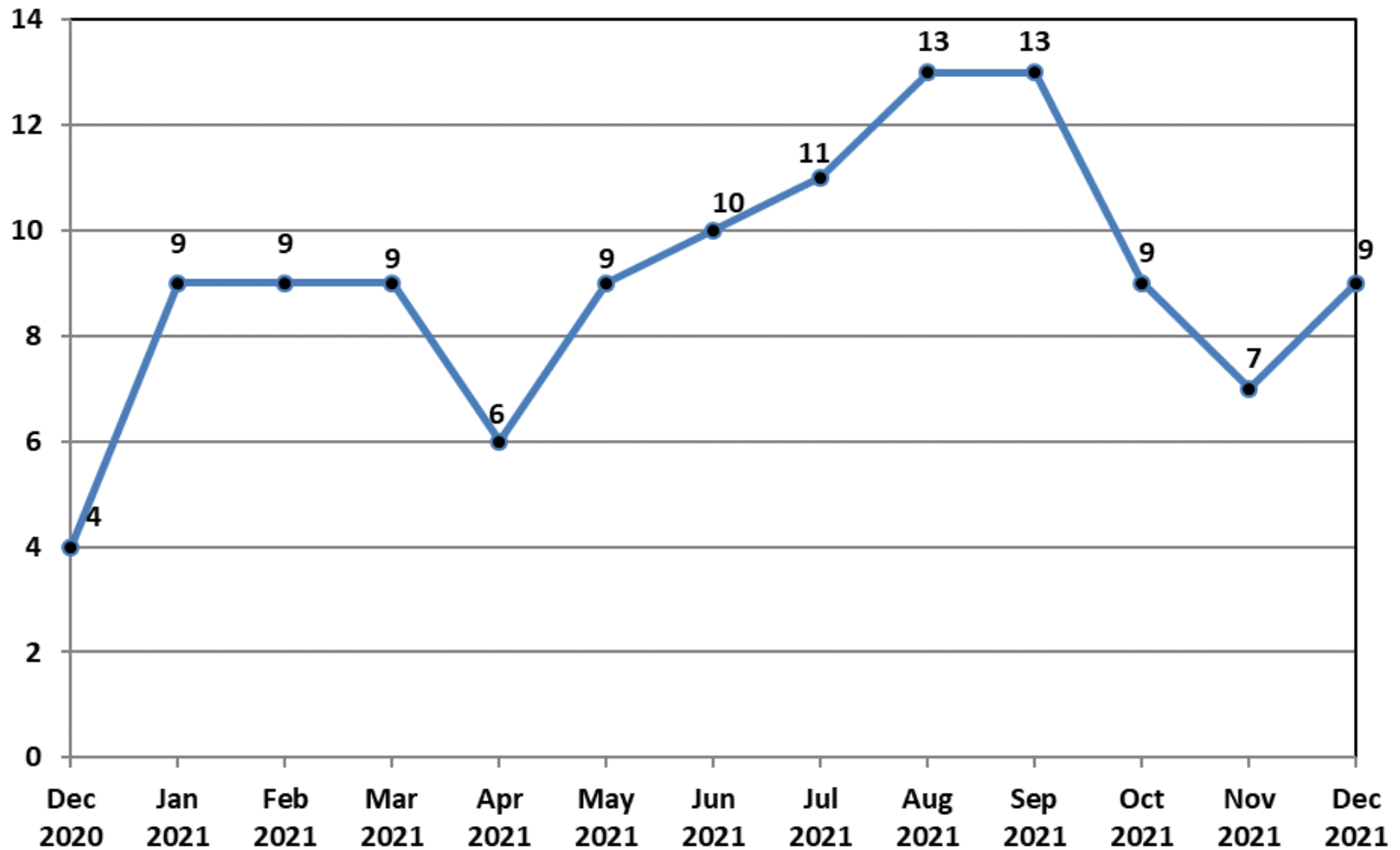
# U.S. Registered Rotorcraft Average Fatal Accidents Per Month, FY83-FY22



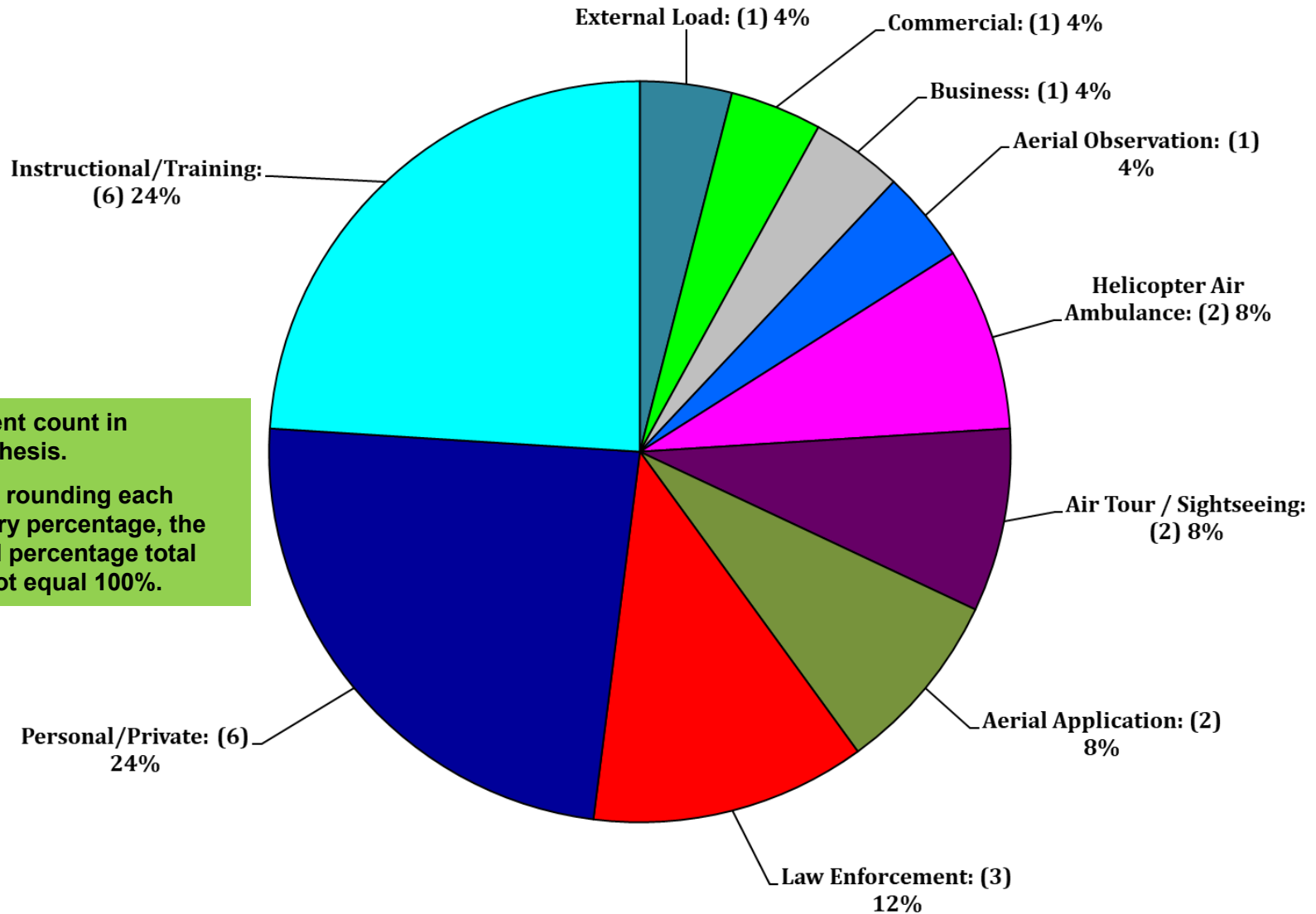
# % of U.S. Rotorcraft Accidents with a Fatality (FY22, Oct - Dec)



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



# FY 22 – Total Accidents by Industry (Oct - Dec)

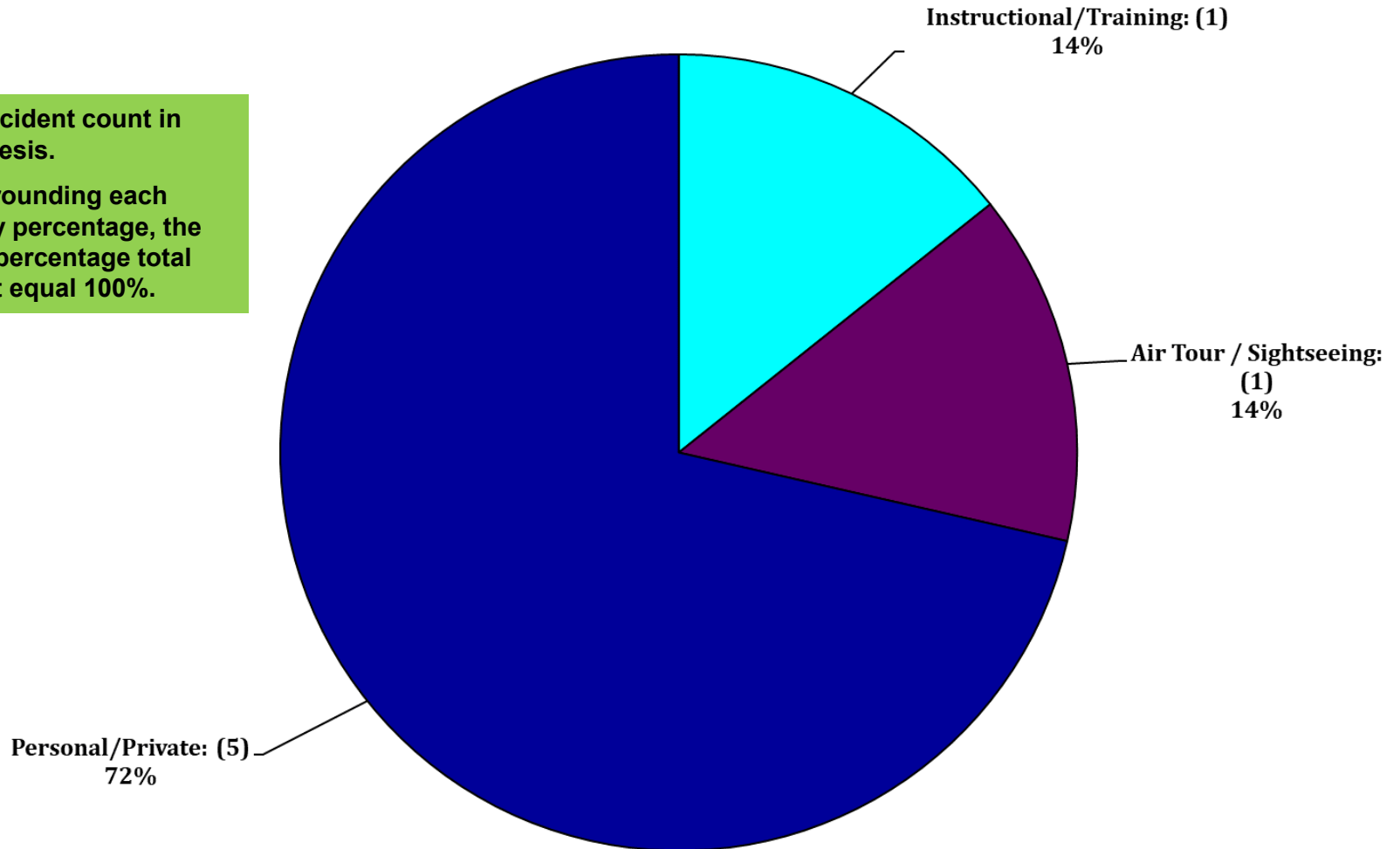


• Accident count in parenthesis.  
• Due to rounding each industry percentage, the overall percentage total may not equal 100%.



# FY 22 – Total FATAL Accidents by Industry (Oct - Dec)

- Fatal accident count in parenthesis.
- Due to rounding each Industry percentage, the overall percentage total may not equal 100%.



# FY 22 – U.S. Registered Fatal Rotorcraft Accidents

- 12-30-21 – Robinson R44, N442VB, Part 91, Bronson, FL, 4 fatal
  - Personal use flight; night departure from private residence
  - Circumstances of crash unknown **NTSB Number Pending**
  
- 12-30-21 – Bell 206B, N8AU, Part 91, Livingston, TX, 1 fatal, 1 serious, 2 minor
  - Sightseeing flight; hovering over trees near home of one of the pax
  - Began uncontrolled right rotation, struck tree, crashed **NTSB: CEN22FA086**
  
- 12-29-21 – Robinson R44, N544SC, Part 91, Cosby, TN, 1 fatal, 1 serious
  - Personal use flight; circumstances of crash unknown **NTSB: ERA22FA096**
  
- 12-14-21 – Bell 407, N150AS, Part 91, LaPlace, LA, 1 fatal
  - Personal use flight; flying 75 to 175 ft AGL above I-10 enroute to New Orleans
  - Crashed after striking guy wire above bridge **NTSB: CEN22FA073**



# FY 22 – U.S. Registered Fatal Rotorcraft Accidents

- 11-28-21 – Bell 206B, N59600, Part 91, Perry, OK, 1 fatal, 1 serious
  - Personal use flight; control loss while at 50 ft AGL/25 knots
  - Unable to recover control, crashed, post-crash fire **NTSB: CEN22FA053**
  
- 10-10-21 – Robinson R44, N637HP, Part 91, Cornwall, NY, 1 fatal
  - Personal use flight; 70 minutes into planned route from Glenn Falls to Ronkonkoma
  - Over Hudson River, made series of turns before crash **NTSB: ERA22FA010**
  
- 10-1-21 – Robinson R22, N412TL, Part 91, Chandler, AZ, 2 fatal
  - Instructional/training flight; traffic pattern at Chandler Municipal Airport
  - Midair collision w/Piper PA-28-181 airplane **NTSB: WPR22FA001**



## FY 22 - US Rotorcraft Accidents By Model

MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY22 U.S. Registered Accidents	Percentage of Total FY22 U.S. Registered Accidents
Airbus Helicopters	AS350 (H125)	927	7%	1	4%
	BK117 (H145)	213	2%		
	EC120 (H120)	89	1%		
	EC130 (H130)	264	2%		
	EC135 (H135)	341	3%		

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 March 2021





## FY 22 - 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 FY22 U.S. Registered Accidents</b>	<b>Percentage of Total FY22 U.S. Registered Accidents</b>
<b>Bell</b>	<b>206Bs</b>	<b>912</b>	<b>7%</b>	<b>3</b>	<b>12%</b>
	<b>206Ls</b>	<b>557</b>	<b>4%</b>	<b>1</b>	<b>4%</b>
	<b>212</b>	<b>83</b>	<b>1%</b>		
	<b>407</b>	<b>791</b>	<b>6%</b>	<b>2</b>	<b>8%</b>
	<b>412</b>	<b>86</b>	<b>1%</b>		
	<b>429</b>	<b>120</b>	<b>1%</b>	<b>2</b>	<b>8%</b>
	<b>505</b>	<b>101</b>	<b>1%</b>		

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\*Fleet size based on analysis of rotorcraft on FAA registry as of March 2021

## FY 22 - US Rotorcraft Accidents By Model

MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY22 U.S. Registered Accidents	Percentage of Total FY22 U.S. Registered Accidents
<b>Robinson</b>	<b>R-22</b>	<b>832</b>	<b>7%</b>	<b>4</b>	<b>16%</b>
	<b>R-44</b>	<b>1,686</b>	<b>13%</b>	<b>5</b>	<b>20%</b>
	<b>R-66</b>	<b>306</b>	<b>2%</b>	<b>1</b>	<b>4%</b>

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## FY 22 - US Rotorcraft Accidents By Model

MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY22 U.S. Registered Accidents	Percentage of Total FY22 U.S. Registered Accidents
Sikorsky	S-61	92	1%		
	S-76	228	2%		
	S-92	89	1%		

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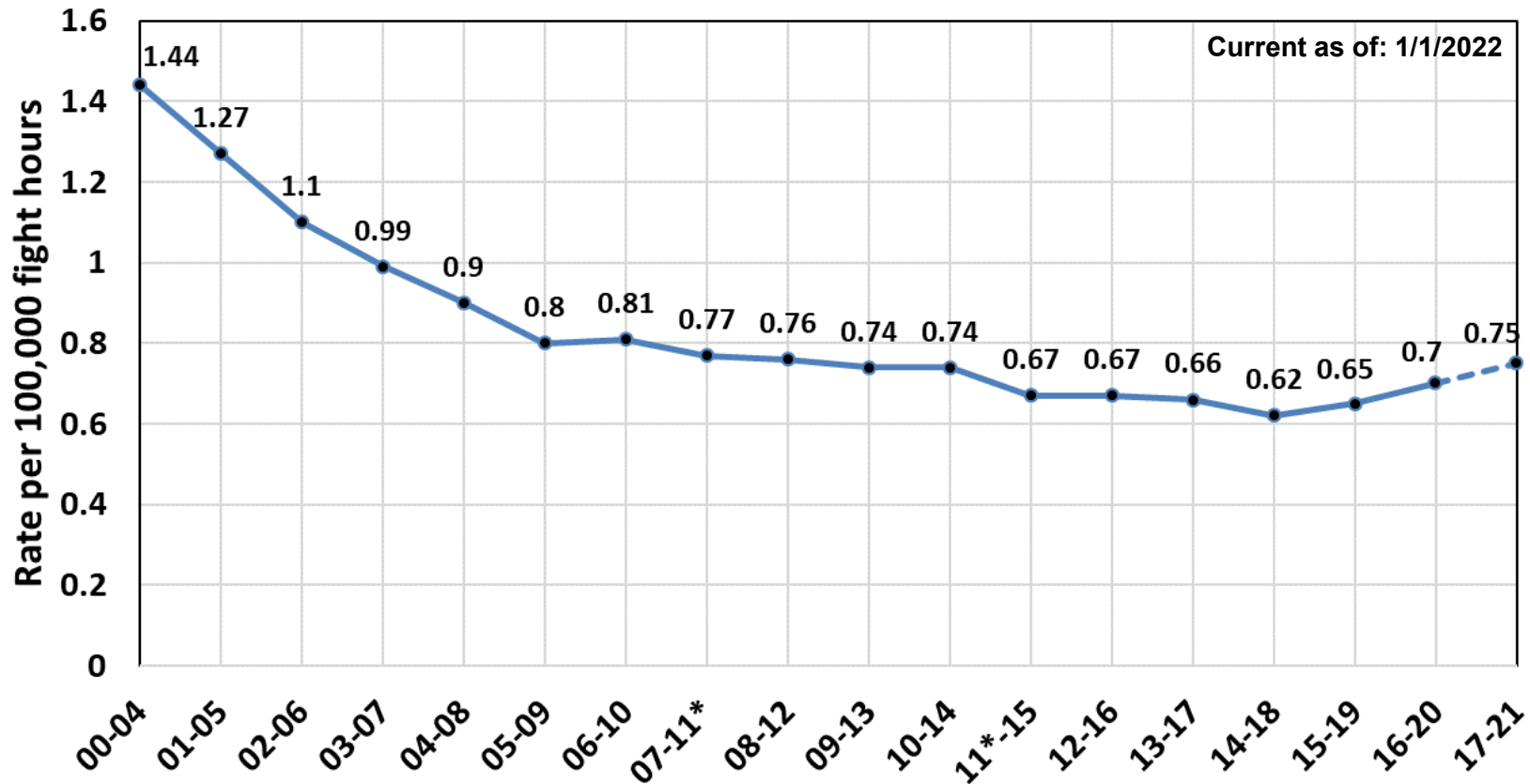
# FY 22 - US Rotorcraft Accidents By Model

MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY22 U.S. Registered Accidents	Percentage of Total FY22 U.S. Registered Accidents
Enstrom	280	122	1%		
	480	65	1%		
	F28	157	1%		
Hiller	UH-12/H-23	273	2%		
Leonardo (formerly Agusta Westland)	A109	166	1%		
	A119	136	1%		
	AW139	129	1%		
MDHI	369	638	5%	1	4%
Restricted Category (all TCs)	HH-1/TH-1/UH-1	530	4%		
	OH-58	394	3%	2	8%
	H-60	229	2%		
Schweizer Rotorcraft Services Group	269/300/TH-55	487	4%	1	4%
Scott's Bell	47	523	4%	2	8%

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# U.S. Helicopter Safety Team (USHST) 5 Year Average Fatal Accident Rate (CY)



**Goal: By 2025, reduce the 5 year average fatal accident rate to 0.55 per 100K hours**



# U.S. Helicopter Safety Team (USHST) Key Fatal Accident Rate Markers (CY)

