

# Rotorcraft Accident Dashboard



Fiscal Year Briefing

Report Month  
Mar 2022

Click on icon for help



Historical Briefing Tab



## FY22: October-March

**52** Total Accidents  
 ▲18% vs. Same Period, Previous FY  
 ▲17% vs. Same Period, 5 Year Average

**13** Fatal Accidents  
 ▲160% vs. Same Period, Previous FY  
 ▲33% vs. Same Period, 5 Year Average

**23** Fatalities  
 ▲77% vs. Same Period, Previous FY  
 ▲2% vs. Same Period, 5 Year Average

**3.74** Accident Rate (per 100K hours)  
 ▲14% vs. Same Period, Previous FY  
 ▲12% vs. Same Period, 5 Year Average

**0.93** Fatal Accident Rate (per 100K hours)  
 ▲152% vs. Same Period, Previous FY  
 ▲27% vs. Same Period, 5 Year Average

**1.65** Fatality Rate (per 100K hours)  
 ▲71% vs. Same Period, Previous FY  
 ▼4% vs. Same Period, 5 Year Average

## U.S. Registered Rotorcraft Event Counts

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Grand Total
Accidents	9	8	11	4	9	11							52
Fatal Accidents	2	1	4	1	3	2							13
Fatalities	3	1	7	2	6	4							23

Same time period, previous FY:

Accidents: 44; Fatal Accidents: 5; Fatalities: 13.



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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Grand Total
Accident Rate	3.38	3.52	5.53	1.98	3.90	4.13							3.74
Fatal Accident Rate	0.75	0.44	2.01	0.49	1.30	0.75							0.93
Fatality Rate	1.13	0.44	3.52	0.99	2.60	1.50							1.65

Same time period, previous FY:

Accident Rate: 3.27; Fatal Accident Rate: 0.37; Fatality Rate: 0.97.



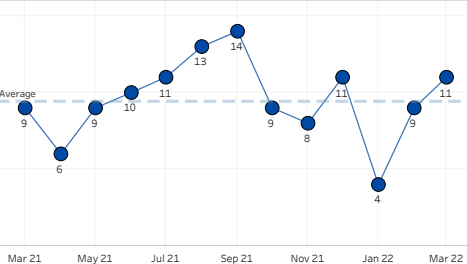
## U.S. Registered Rotorcraft 13 Month Accident Count

vs. Same Month Previous Year:

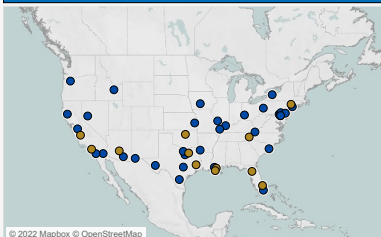
▲22%

vs. 12 Month Average:

▲17%



## Accident Details

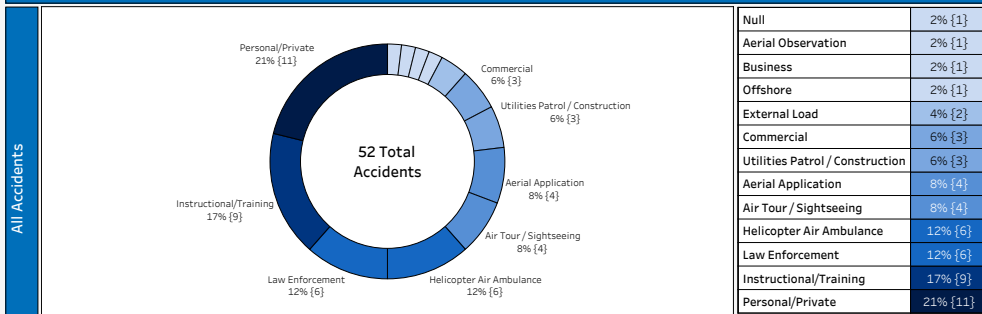


© 2022 Mapbox © OpenStreetMap

Map

Summary

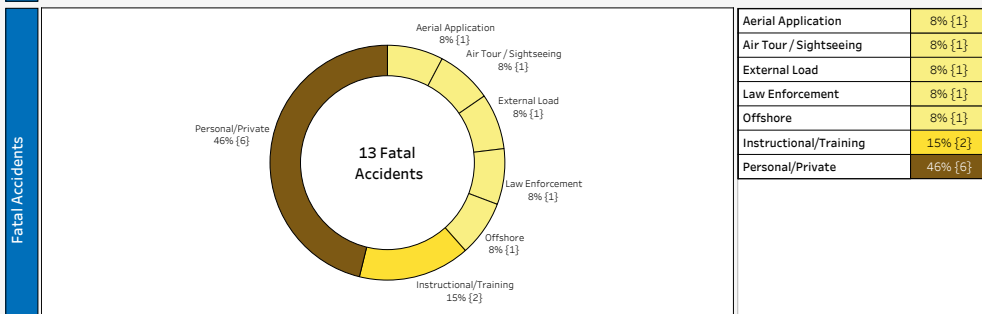
## Accidents by Industry Sector



Null	2% {1}
Aerial Observation	2% {1}
Business	2% {1}
Offshore	2% {1}
External Load	4% {2}
Commercial	6% {3}
Utilities Patrol / Construction	6% {3}
Aerial Application	8% {4}
Air Tour / Sightseeing	8% {4}
Helicopter Air Ambulance	12% {6}
Law Enforcement	12% {6}
Instructional/Training	17% {9}
Personal/Private	21% {11}

FY to Date

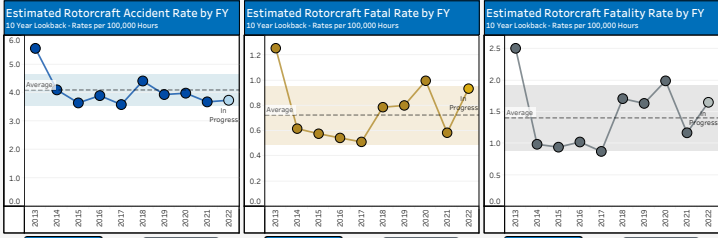
This Month



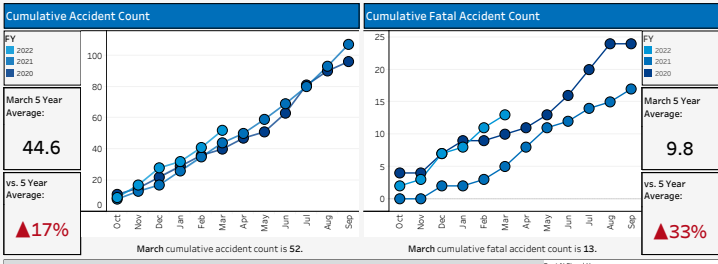
Aerial Application	8% {1}
Air Tour / Sightseeing	8% {1}
External Load	8% {1}
Law Enforcement	8% {1}
Offshore	8% {1}
Instructional/Training	15% {2}
Personal/Private	46% {6}

FY to Date

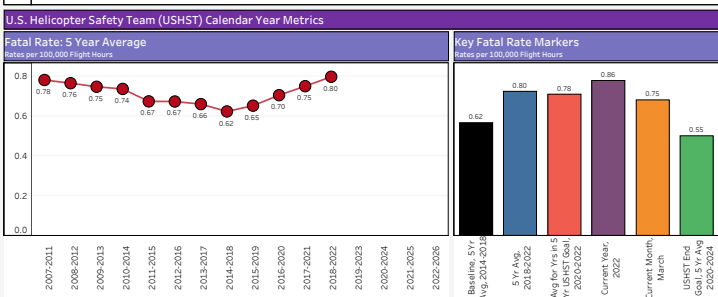
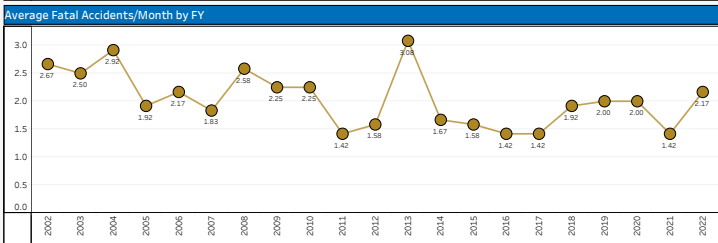
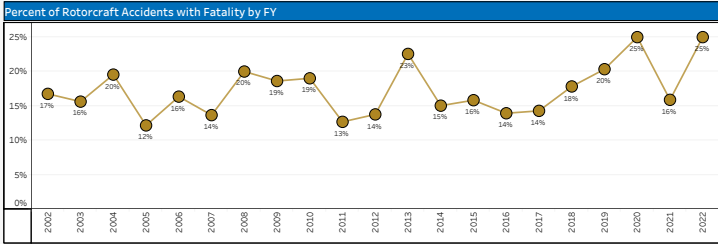
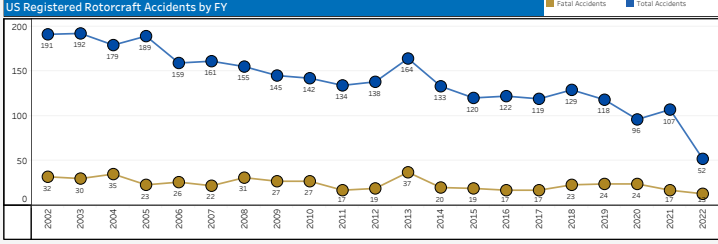
This Month



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Accident Rate	5.56	4.10	3.64	3.90	3.58	4.41	3.94	3.99	3.68	3.74
Fatal Accident Rate	1.25	0.62	0.58	0.54	0.51	0.79	0.80	1.00	0.58	0.93
Fatality Rate	2.51	0.99	0.94	1.02	0.87	1.71	1.64	1.99	1.17	1.65



Select a FY Range to view for charts below



USHST Current Goal: Reduce 5 Year Average Fatal Accident Rate to .55 per 100K Flight Hours.



Federal Aviation  
Administration

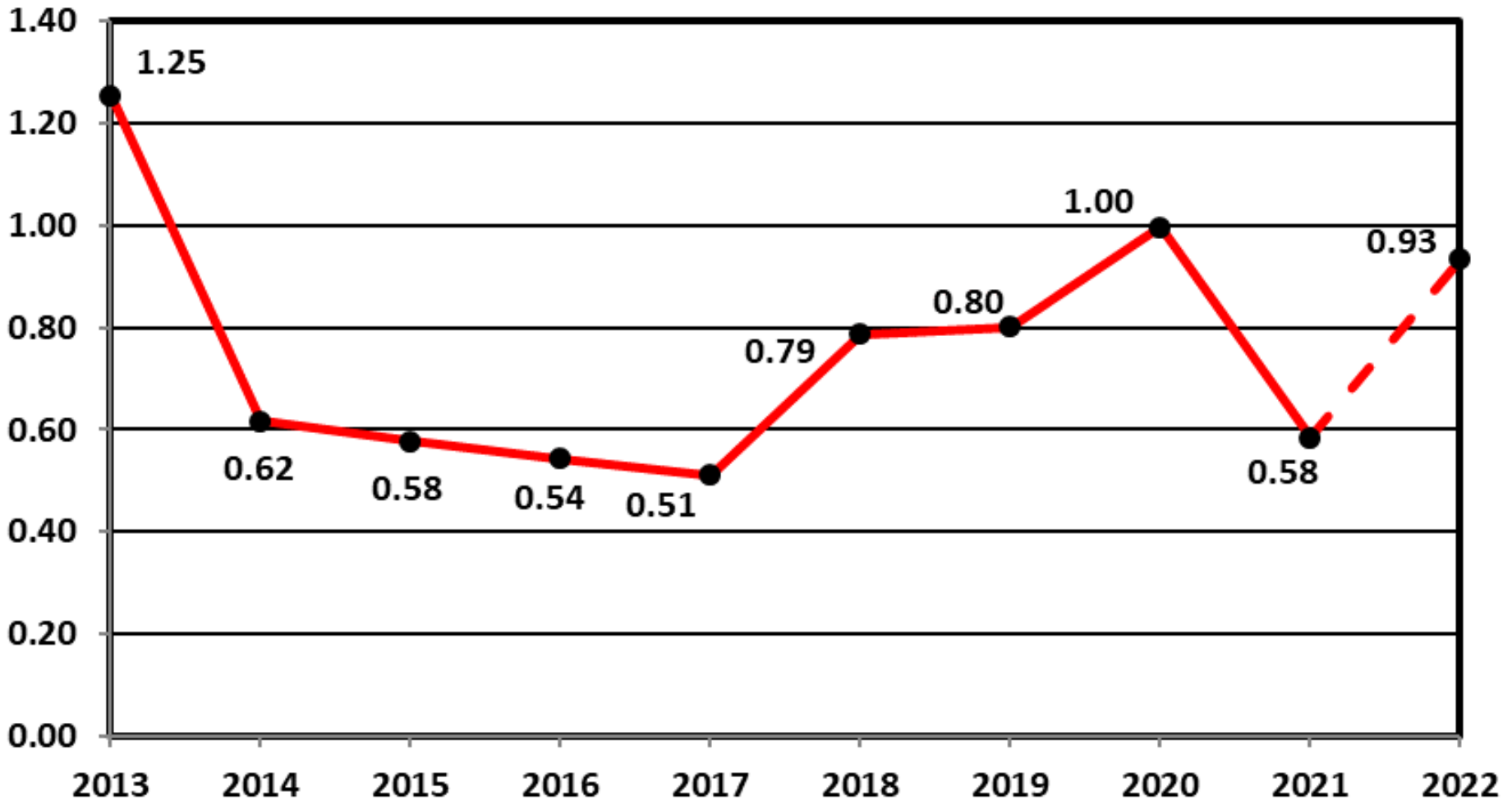
# Fleet Safety Section, AIR-723

## Rotorcraft Monthly Accident Briefing

March 2022

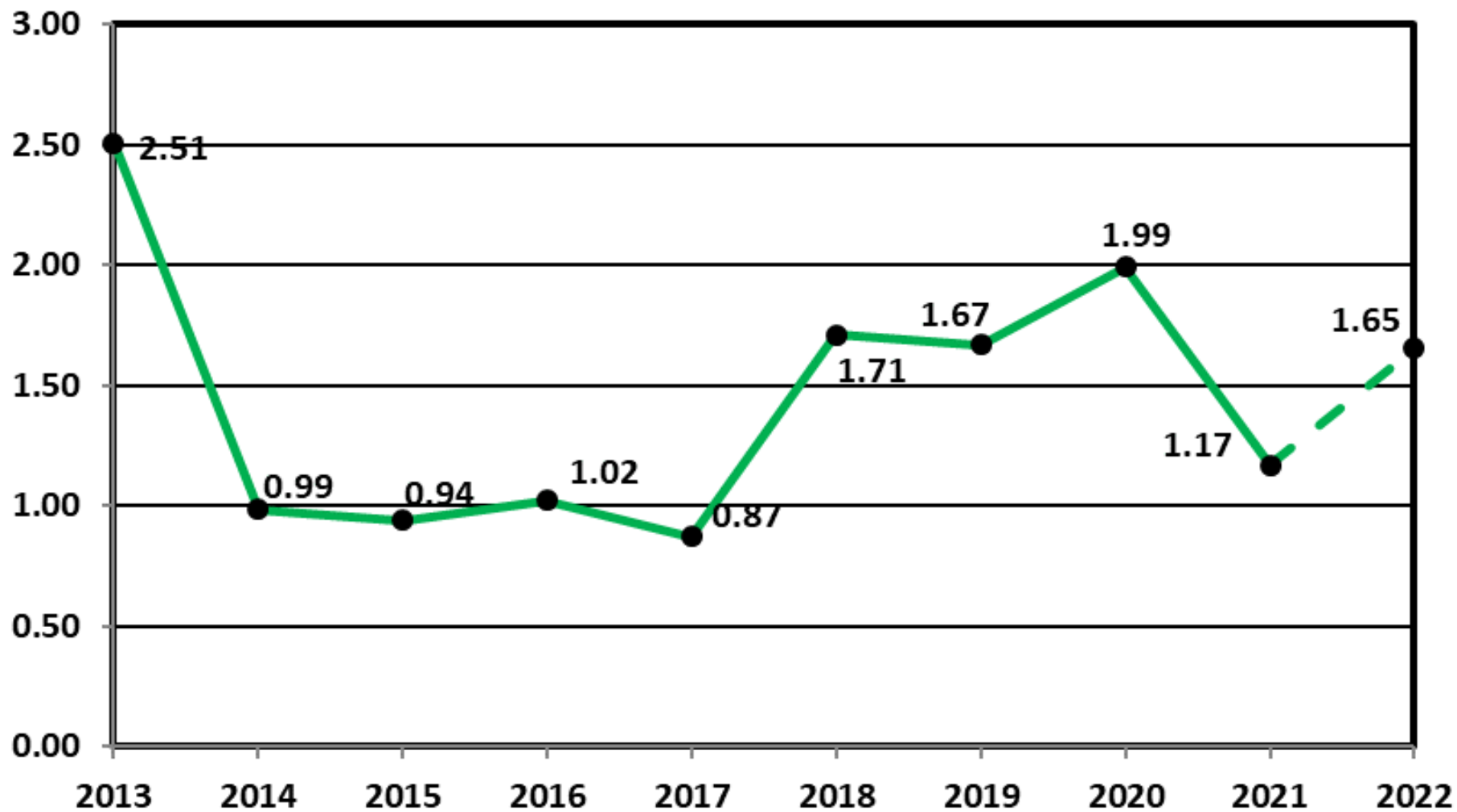


# Estimated U.S. Rotorcraft FATAL Accident Rate by FY 10 Year Lookback – Rates per 100,000 Hours



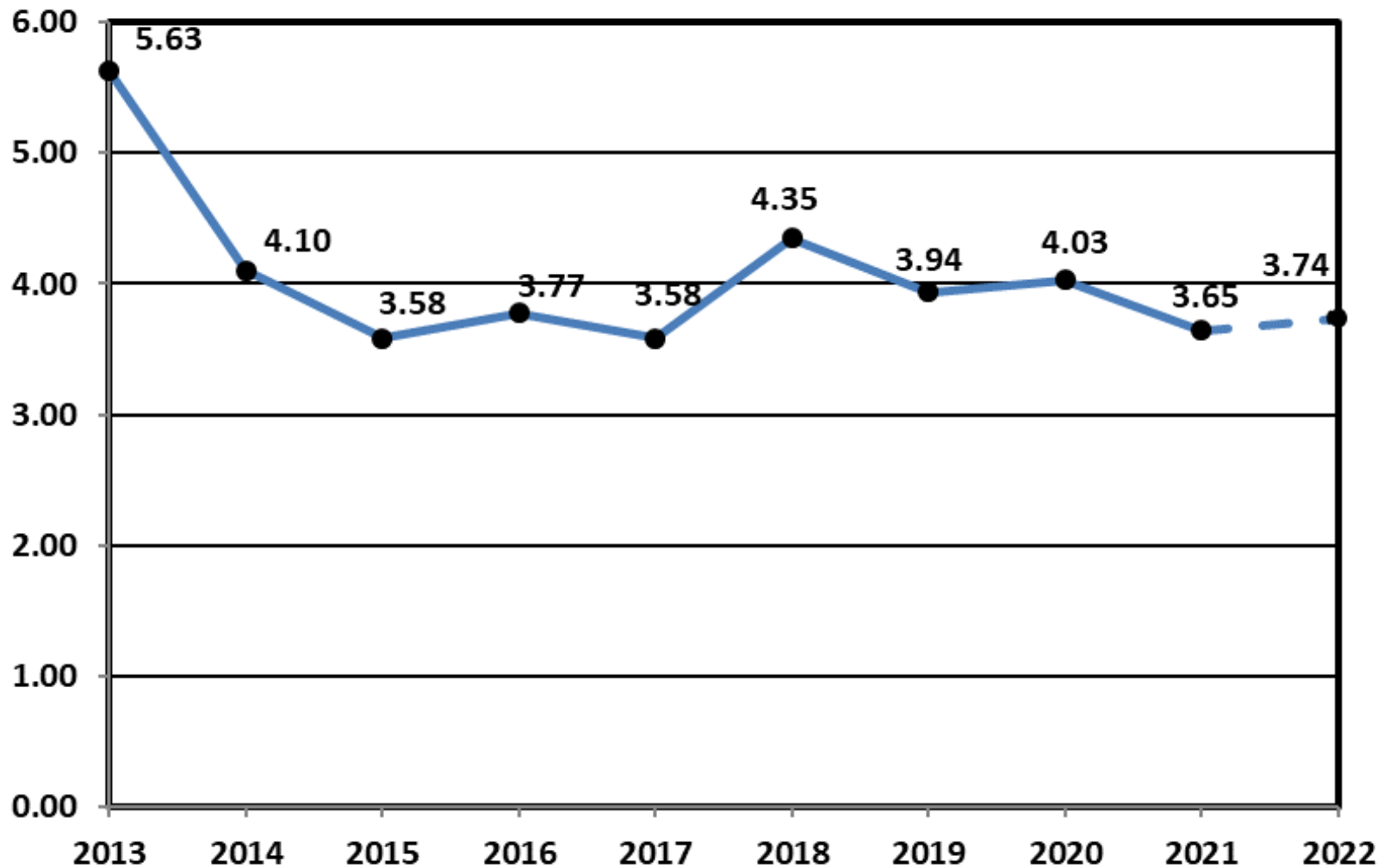


# Estimated U.S. Rotorcraft Fatality Rate by FY 10 Year Lookback – Rates per 100,000 Hours





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



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

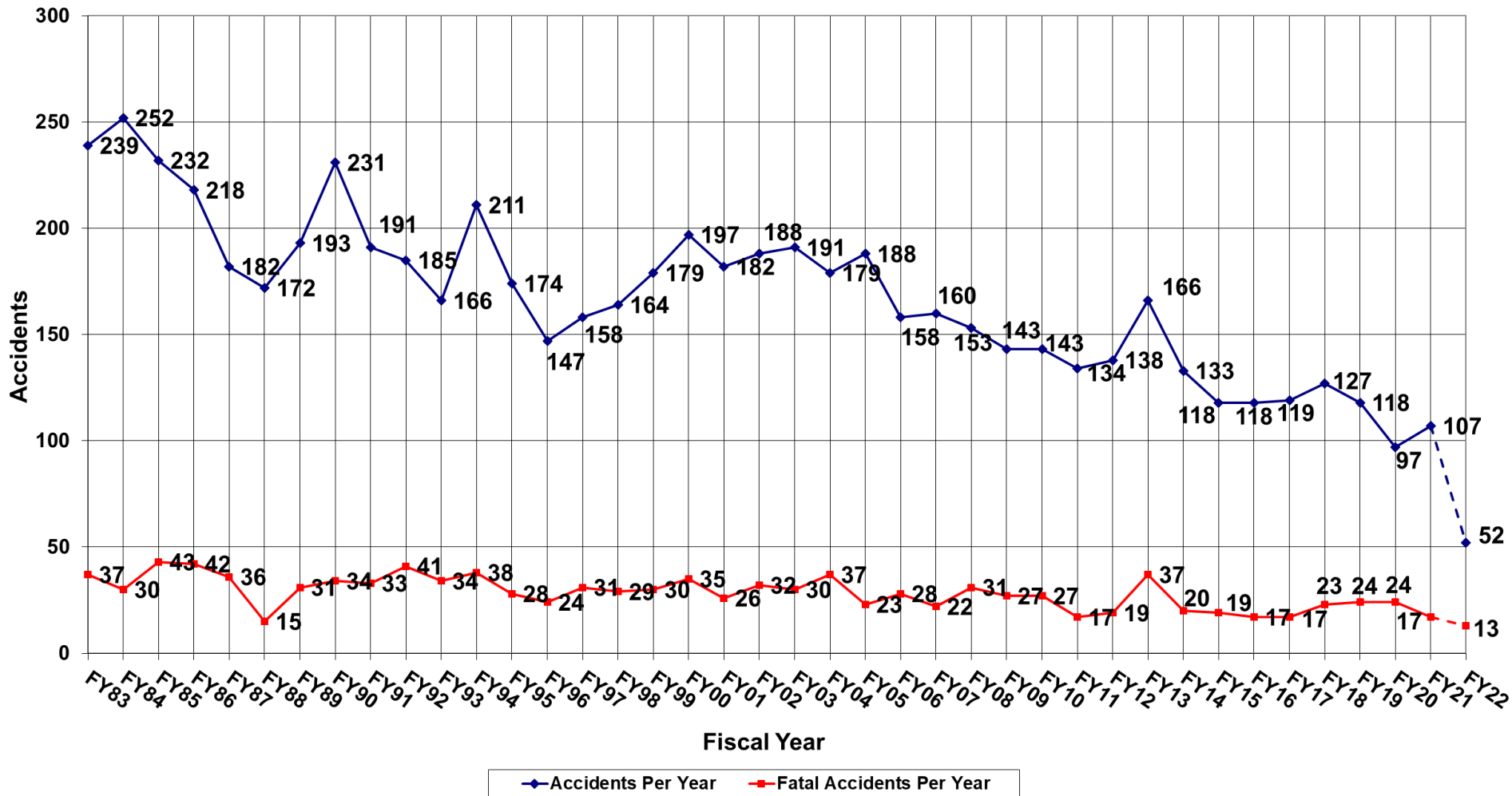
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	YTD
<b>Accidents:</b>	9	8	11	4	9	11							52
<b>Fatal Acc:</b>	2	1	4	1	3	2							13
<b>Fatalities:</b>	3	1	7	2	6	4							23
<b>Same time period, previous FY: 44 Accidents, 5 Fatal Accidents, 13 Fatalities</b>													

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)

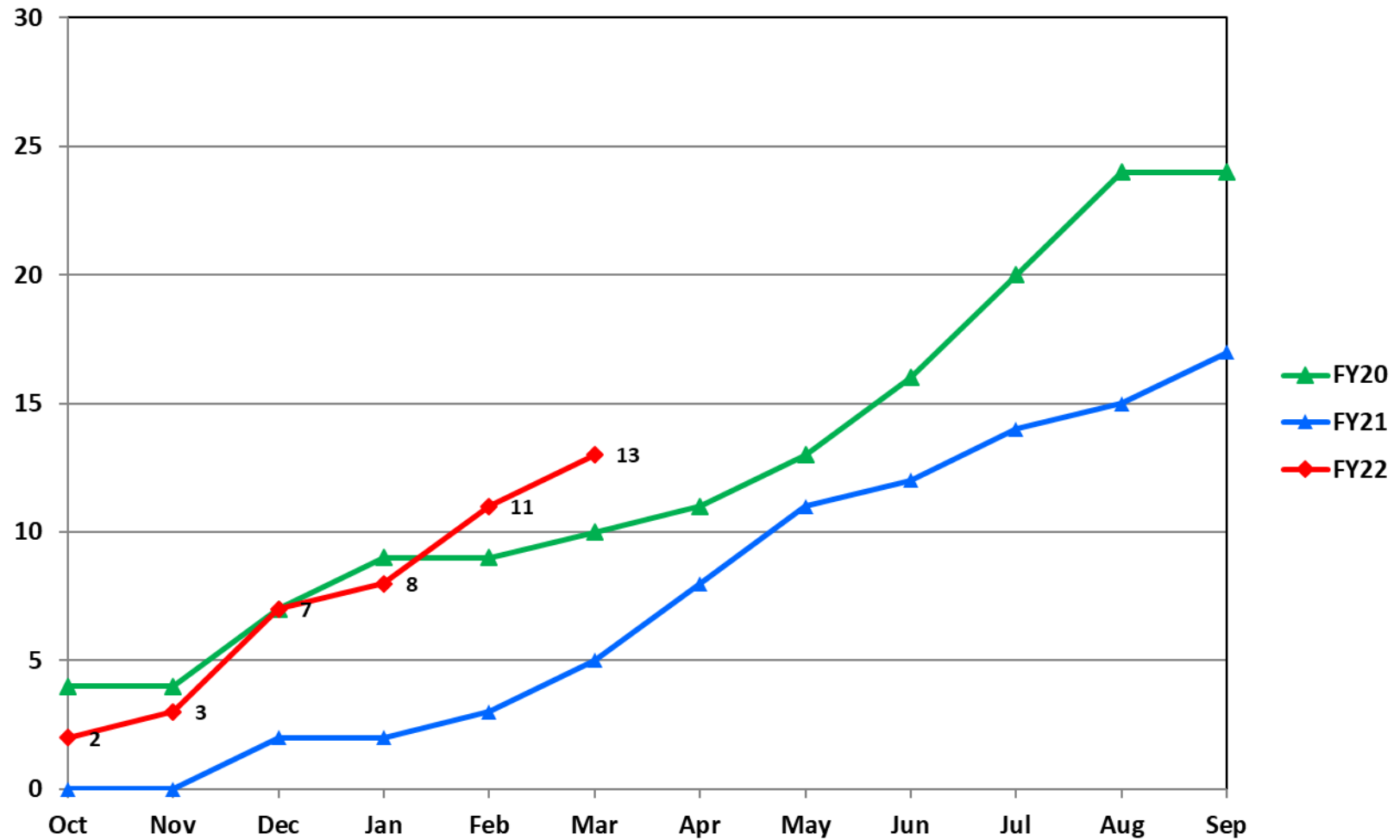
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	YTD
<b>Accidents:</b>	3.38	3.52	5.53	1.98	3.90	4.13							3.74
<b>Fatal Acc:</b>	0.75	0.44	2.01	0.49	1.3	0.75							0.93
<b>Fatalities:</b>	1.13	0.44	3.52	0.99	2.6	1.5							1.65

# U.S. Registered Rotorcraft Accidents FY83 - FY22

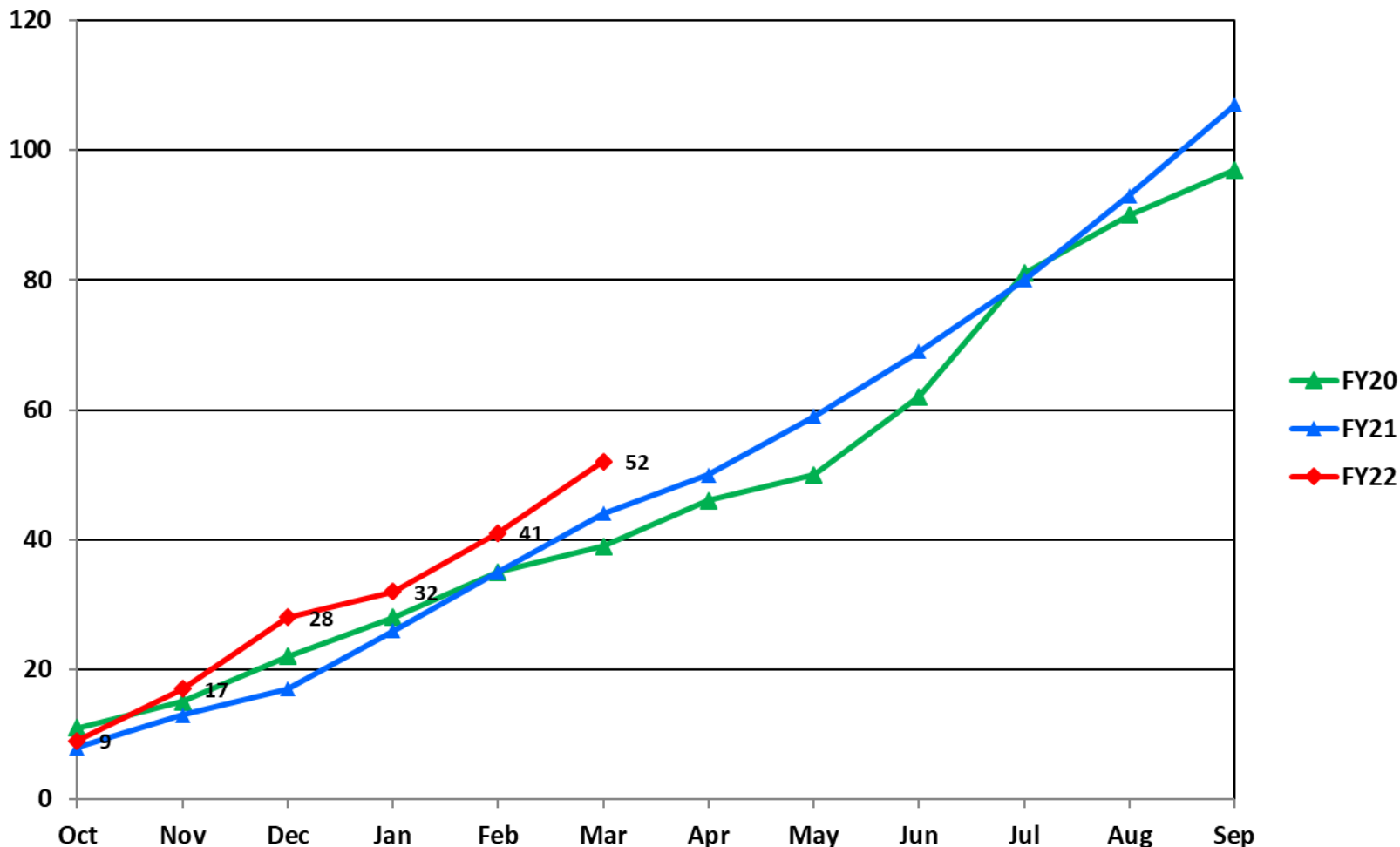




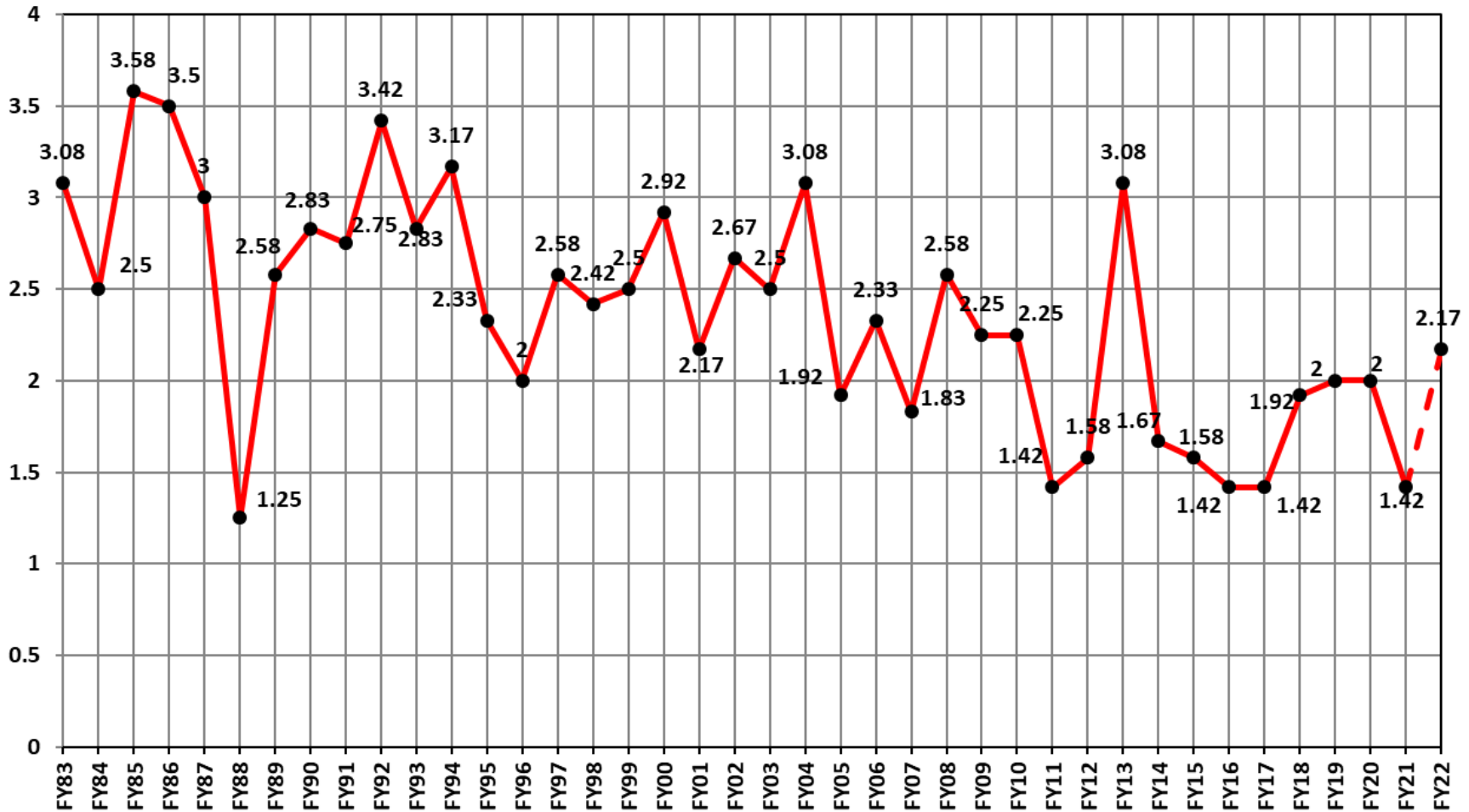
# U.S. Registered Rotorcraft Cumulative Fatal Accident Count: FY19 - FY22



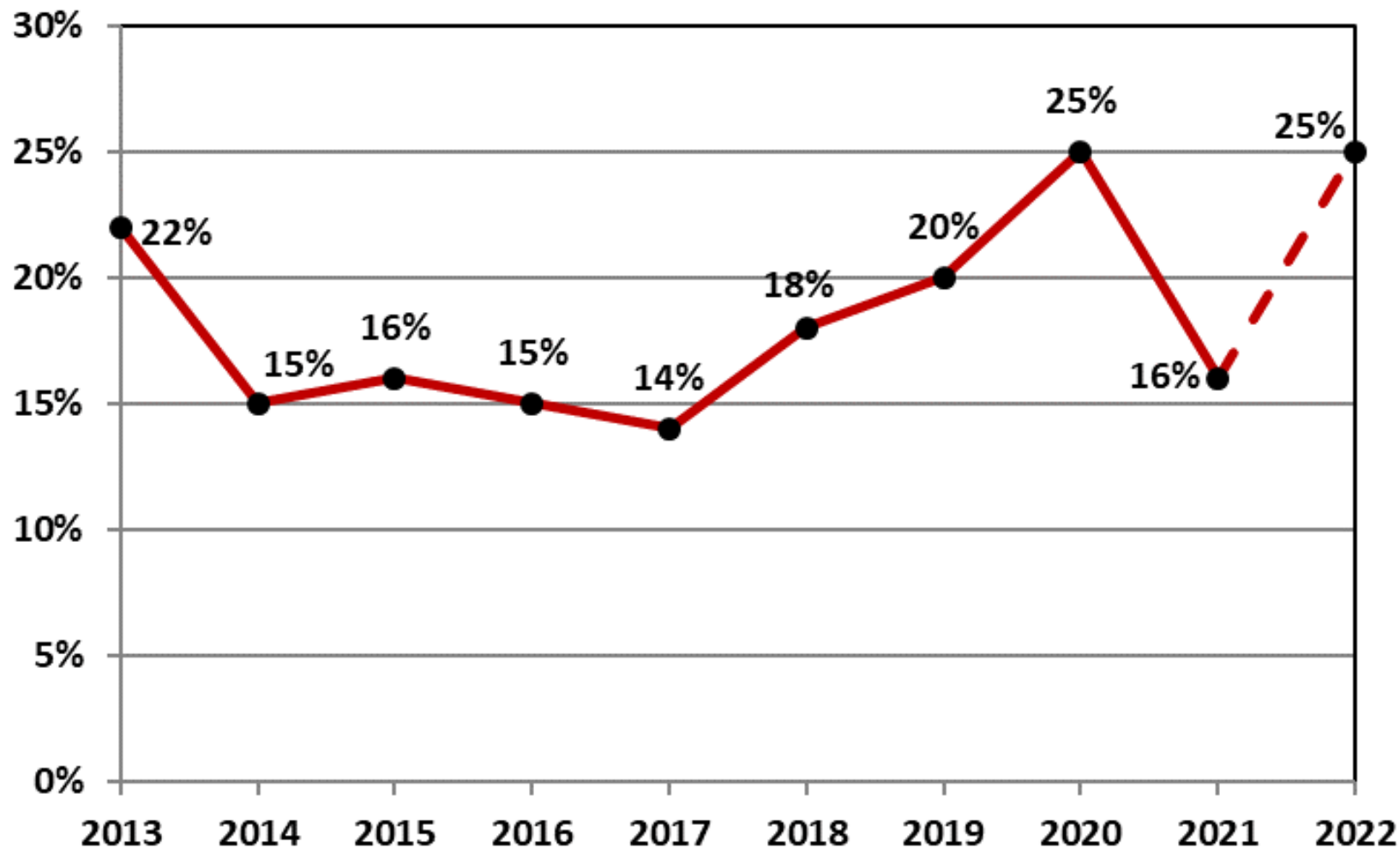
# U.S. Registered Rotorcraft Cumulative Accident Count: FY19 - FY22



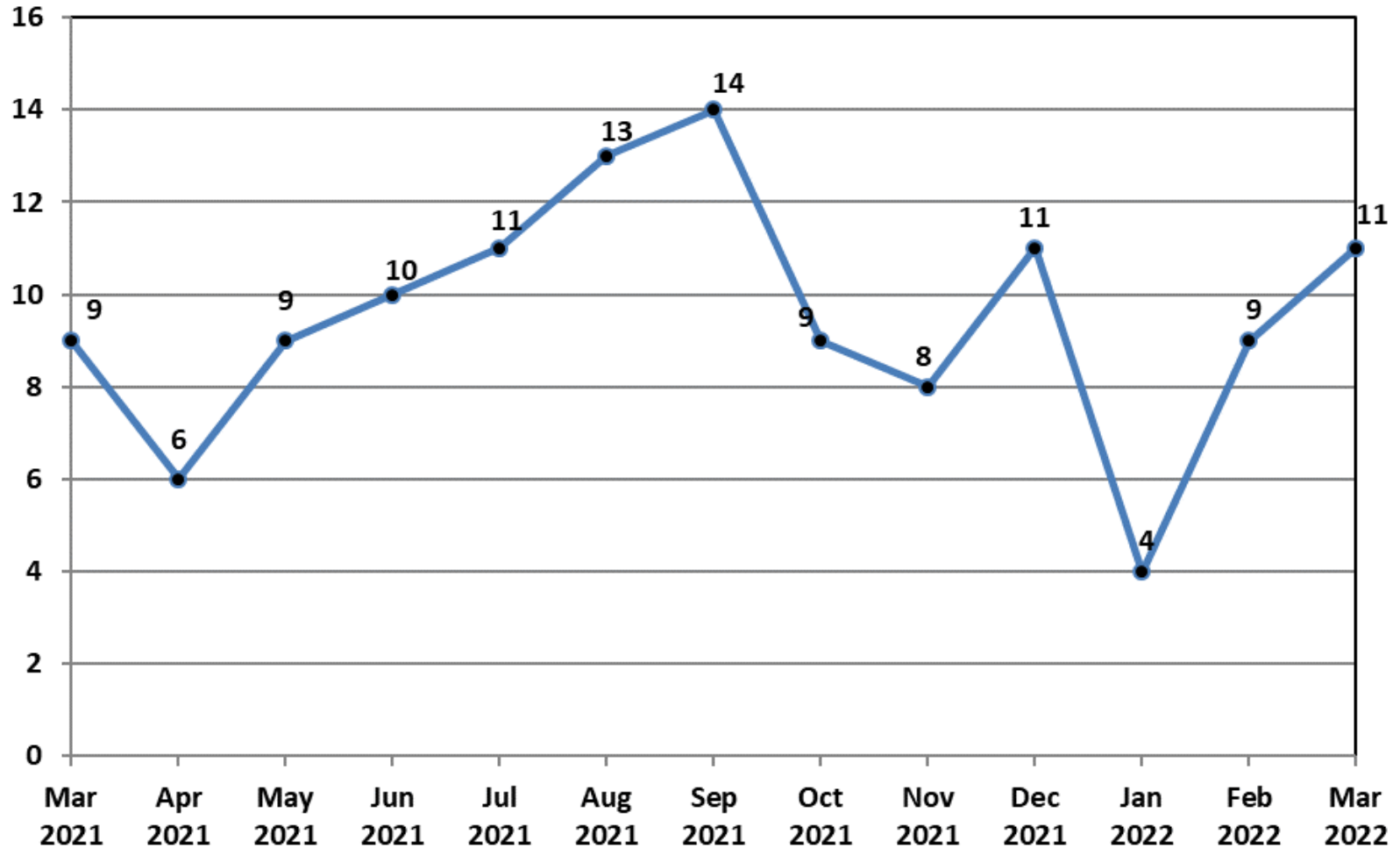
# U.S. Registered Rotorcraft Average Fatal Accidents Per Month, FY83-FY22



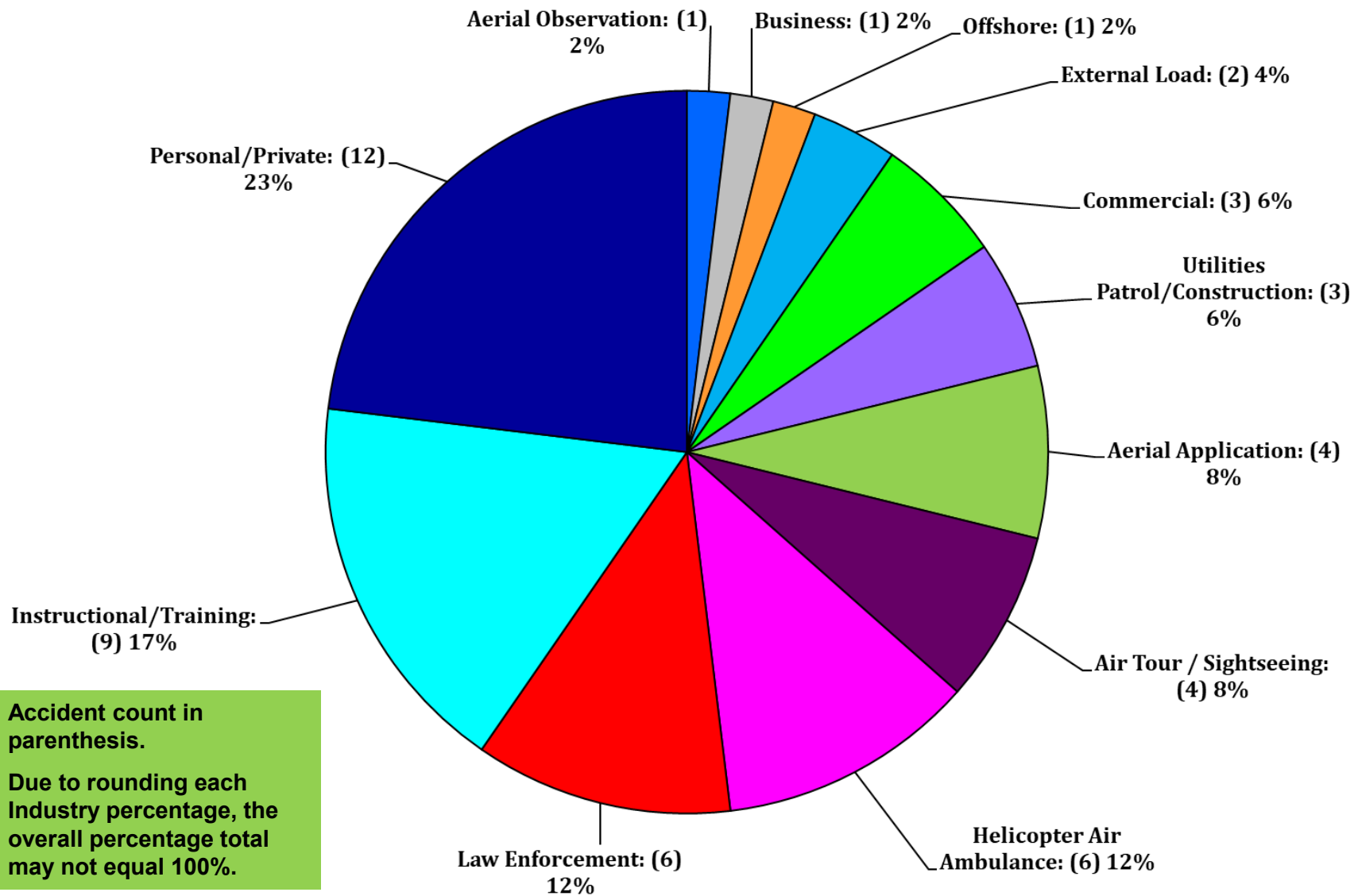
# % of U.S. Rotorcraft Accidents with a Fatality (FY22, Oct - Mar)



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



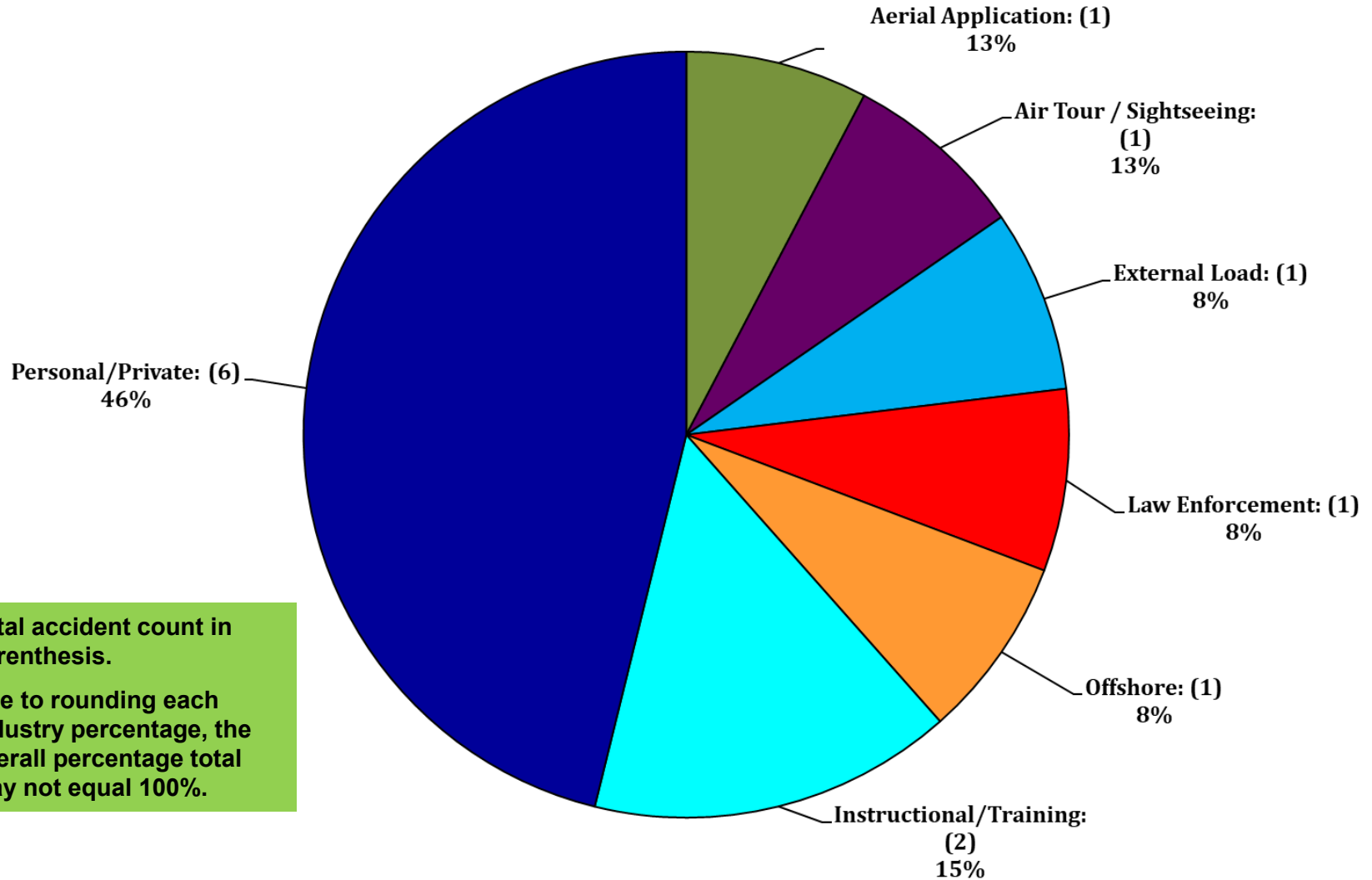
# FY 22 – Total Accidents by Industry (Oct - Mar)



- 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 - Mar)



- 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

- 3-25-22 – Robinson R44, N514CD, Part 91, Rowlett, TX, 2 fatal
  - Instructional/training flight
  - Video from witness of a/c in uncontrolled descent **NTSB: CEN22FA151**
- 3-18-22 – MDHI 369HM, N650AG, Part 91, Loxahatchee, FL, 2 fatal
  - Personal use flight; Flying at 25 to 75 feet AGL and collided with power line
  - Pilot and pilot rated pax did not have a helicopter rating **NTSB: ERA22FA160**





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

- 2-22-22 – Sikorsky S-61N, N615CK, Part 133, Kekaha, Kauai, HI, 4 fatal
  - External load flight to retrieve inert training torpedoes from the Pacific Ocean
  - Was over land and near ordnance recovery area about 200 ft AGL; pitched nose down
  - Witnesses reported crashed in near vertical attitude **NTSB: ANC22FA018**
  
- 2-19-22 – MDHI 500N, N521HB, Public Aircraft, Newport Beach, CA, 1 fatal
  - Night law enforcement flight; orbiting to keep infrared camera on ground altercation
  - A/c yawed right; continued rotation until water impact **NTSB: WPR22FA101**
  
- 2-15-22 – Northwest Helicopters LLC UH-1H, N72297, Part 137, Coalinga, CA, 1 fatal
  - Night aerial application flight; ceased spraying when wind increased, departed area
  - A/c wreckage found 6 miles SE of last known position **NTSB: WPR22FA098**
  
- 1-14-22 – Bell 407, N167RL, Part 135, Houma, LA, 2 fatal
  - On-demand flight with 1 passenger
  - Witness observed a/c in nose down descent into trees **NTSB: CEN22FA100**

## 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
  - Crashed 9 minutes after departure **NTSB: ERA22FA098**
  
- 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; departed w/ leased a/c from service center; deteriorating weather
  - 12 min later, a/c observed flying out of fog/hitting trees **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
<b>Airbus Helicopters</b>	<b>AS350 (H125)</b>	<b>927</b>	<b>7%</b>	<b>3</b>	<b>6%</b>
	<b>AS332</b>	<b>10</b>	<b>&lt; 1%</b>	<b>1</b>	<b>2%</b>
	<b>BK117 (H145)</b>	<b>213</b>	<b>2%</b>	<b>1</b>	<b>2%</b>
	<b>EC120 (H120)</b>	<b>89</b>	<b>1%</b>		
	<b>EC130 (H130)</b>	<b>264</b>	<b>2%</b>		
	<b>EC135 (H135)</b>	<b>341</b>	<b>3%</b>	<b>1</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 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
Bell	205	52	< 1%	1	2%
	206Bs	912	7%	3	6%
	206Ls	557	4%	2	4%
	212	83	1%		
	407	791	6%	3	6%
	412	86	1%		
	429	120	1%	2	4%
	505	101	1%		

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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>6</b>	<b>12%</b>
	<b>R-44</b>	<b>1,686</b>	<b>13%</b>	<b>10</b>	<b>19%</b>
	<b>R-66</b>	<b>306</b>	<b>2%</b>	<b>1</b>	<b>2%</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
Sikorsky	S-61	92	1%	1	2%
	S-76	228	2%	1	2%
	S-92	89	1%		

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# FY 22 - US Rotorcraft Accidents By Model

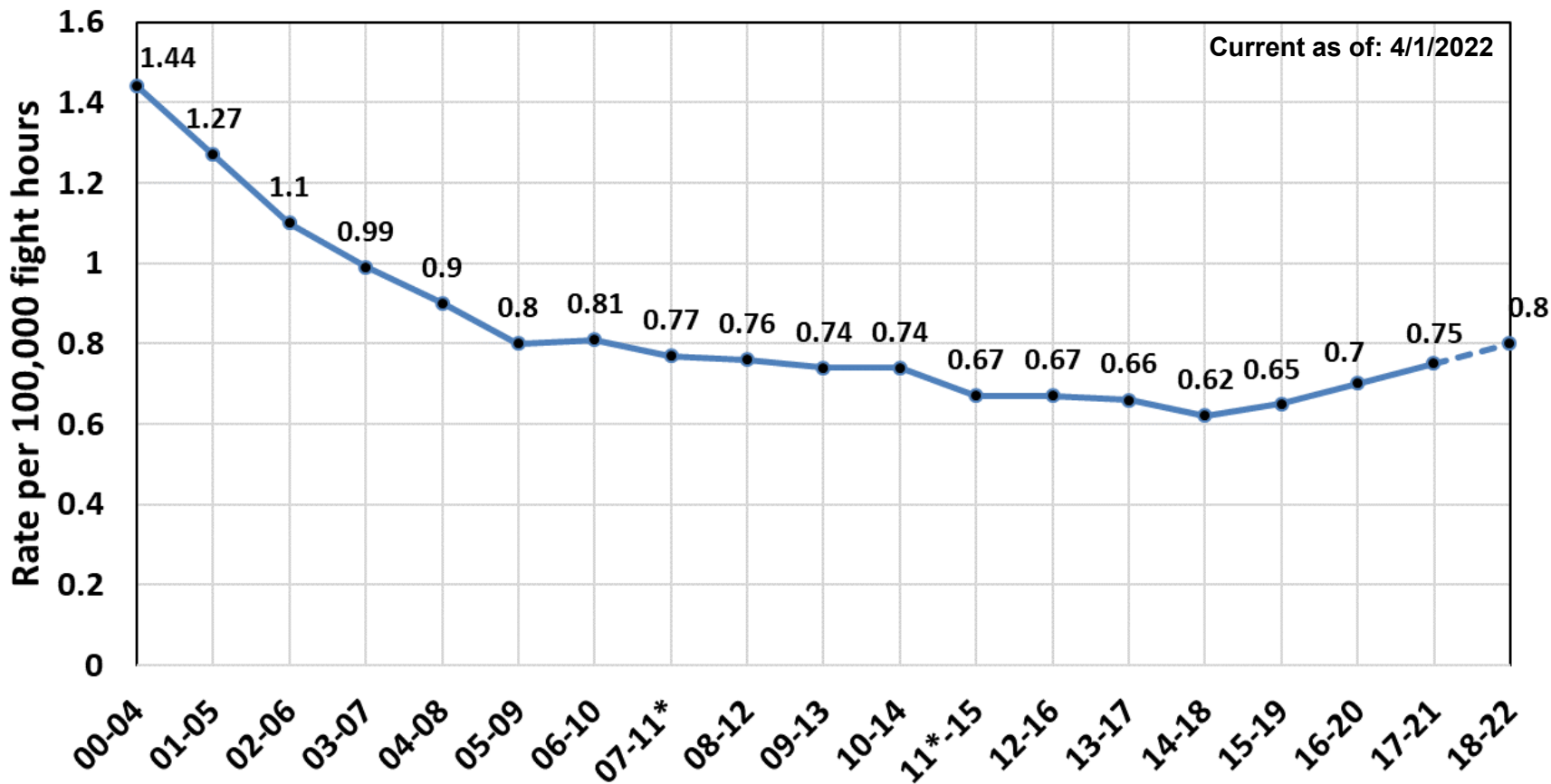
MFR	Model	Registered U.S. Fleet Size	Percentage of Total U.S. Fleet	Number of FY22 U.S. Registered Accidents	Percentage of Total FY22 U.S. Registered Accidents
Enstrom	280	122	1%		
	480	65	1%		
	F28	157	1%		
Hiller	UH-12/H-23	273	2%	1	2%
Leonardo (formerly Agusta Westland)	A109	166	1%		
	A119	136	1%		
	AW139	129	1%		
	AW169	6	< 1%	1	2%
MDHI	369	638	5%	5	10%
	500N	45	< 1%	1	2%
Restricted Category (all TCs)	HH-1/TH-1/UH-1	530	4%	2	4%
	OH-58	394	3%	2	4%
	H-60	229	2%		
Schweizer Rotorcraft Services Group	269/300/TH-55	487	4%	1	2%
Scott's Bell	47	523	4%	3	6%

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



# 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)

