



Federal Aviation
Administration

Rotorcraft Directorate ASW-100

Monthly Accident Briefing

December 2016

By: ASW-112, Safety Management Group



FY 17 – U.S. Registered Rotorcraft Accidents

Cumulative Counts – 18 Accidents, 3 Fatal Accidents, 5 Fatalities

Same time period, previous FY: 28 Accidents, 3 Fatal Accident, 8 Fatalities

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Accidents: | 5 | 6 | 7 | | | | | | | | | | 18 |
| Fatal: | 1 | 2 | 0 | | | | | | | | | | 3 |
| Fatalities: | 2 | 3 | 0 | | | | | | | | | | 5 |

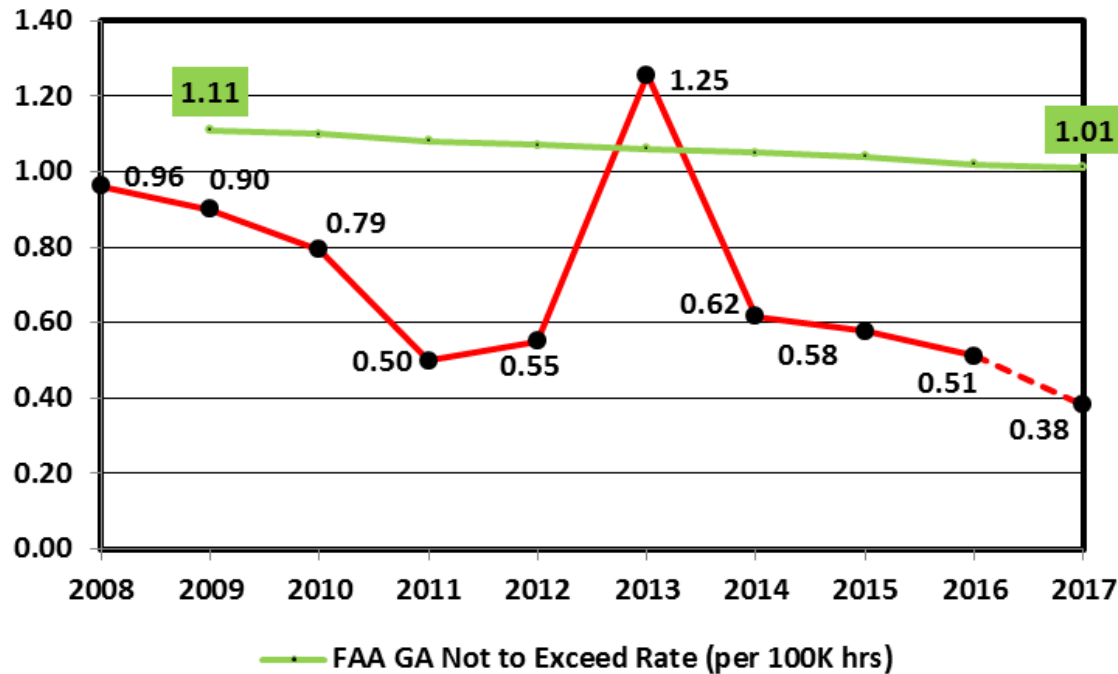
Data Source: FAA, NTSB Databases. Includes only events classified as accidents and does not include incidents. The accident numbers for each month of the Fiscal Year may vary from the previous monthly briefing based on analysis between FAA and NTSB databases for the specified month. The NTSB database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

Accident Operations Summary (Cumulative)

Acronyms: HAA = Helicopter Air Ambulance, ENG = Electronic News Gathering, GA = General Aviation, GOM = Gulf of Mexico

| | HAA 91/ 135 | GOM 91/ 135 | Part 133 | Part 135 Other | Air Tour 91/135/136 | Part 137 | ENG 91/ 135 | GA 91 | N Reg Outside U.S. |
|--------------------|----------------|----------------|-------------|-------------------|------------------------|----------|----------------|----------|--------------------------|
| Accidents: | | | | | 1 | 5 | | 11 | 1 |
| Fatal: | | | | | | | | 2 | 1 |
| Fatalities: | | | | | | | | 4 | 1 |

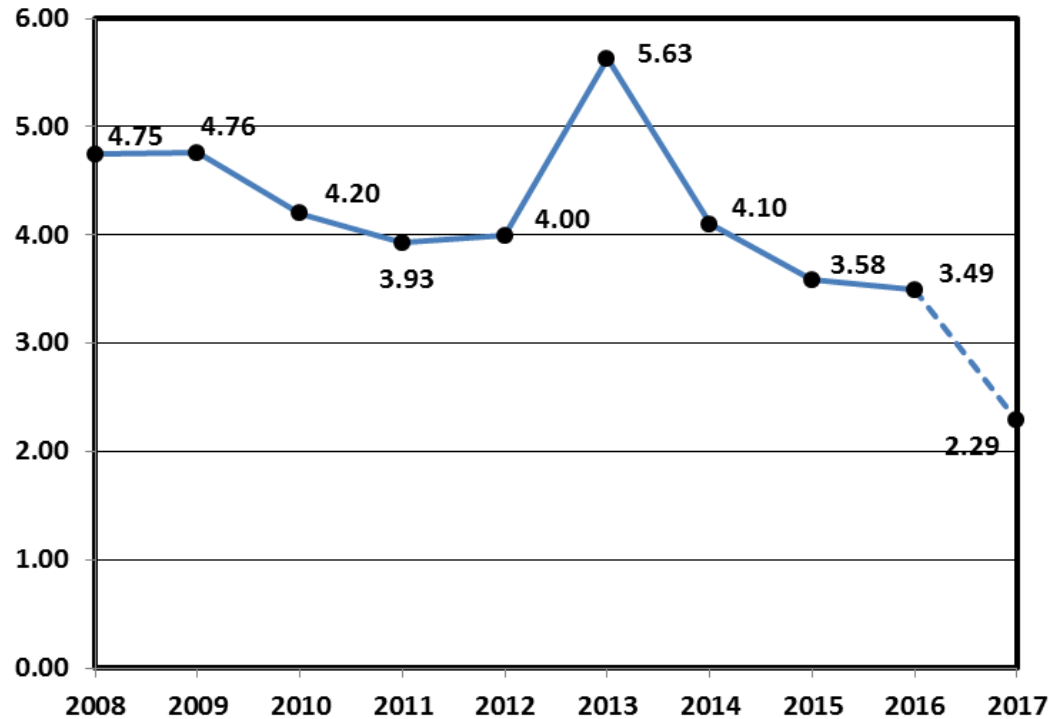
Estimated Rotorcraft FATAL Accident Rate (per 100,000 hours) – 10 Year Lookback



Rate calculation based on the following:

- 1) Accident totals compiled by ASW-112.
- 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 16 and FY 17 were based on the FAA's FY2016-2036 forecast.

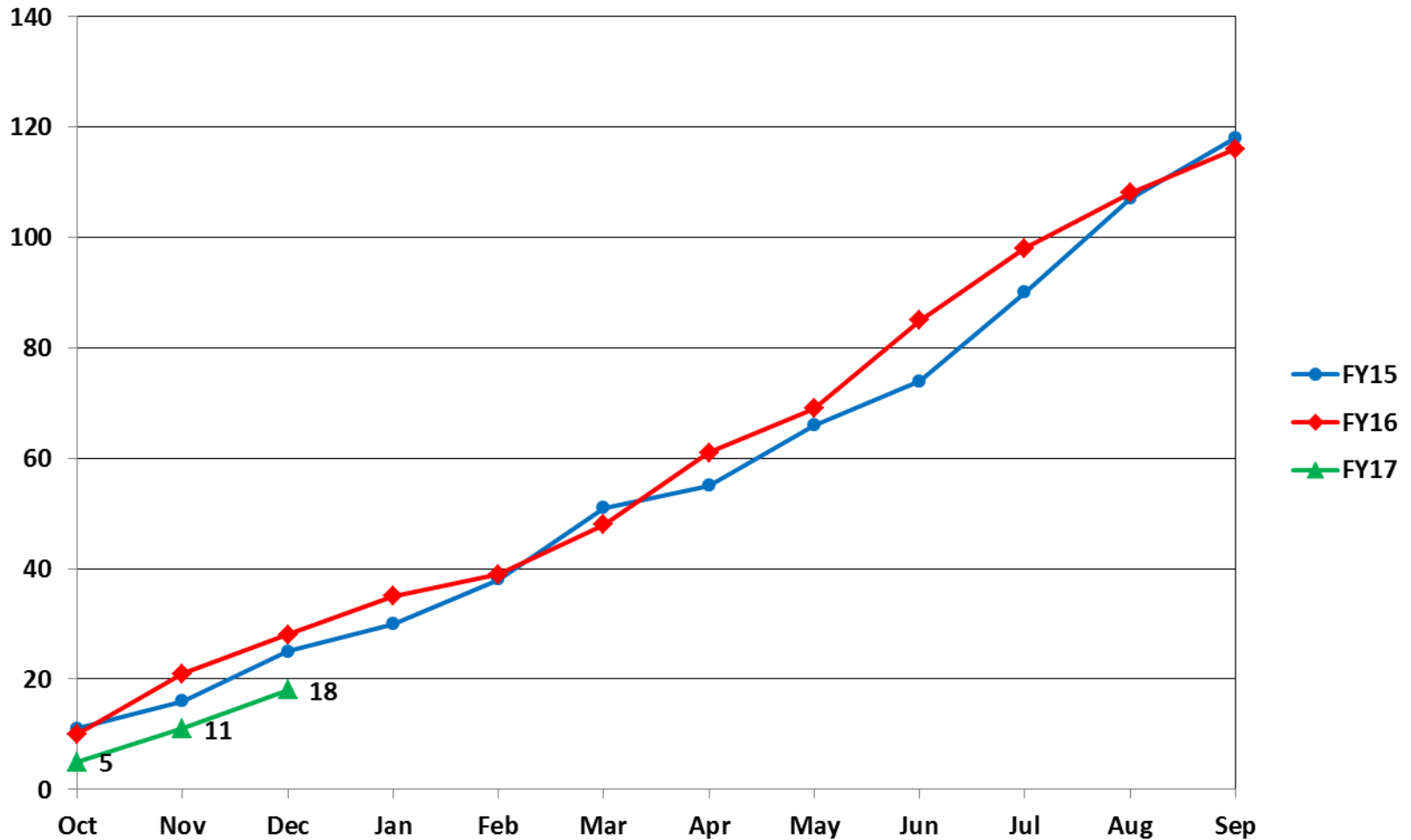
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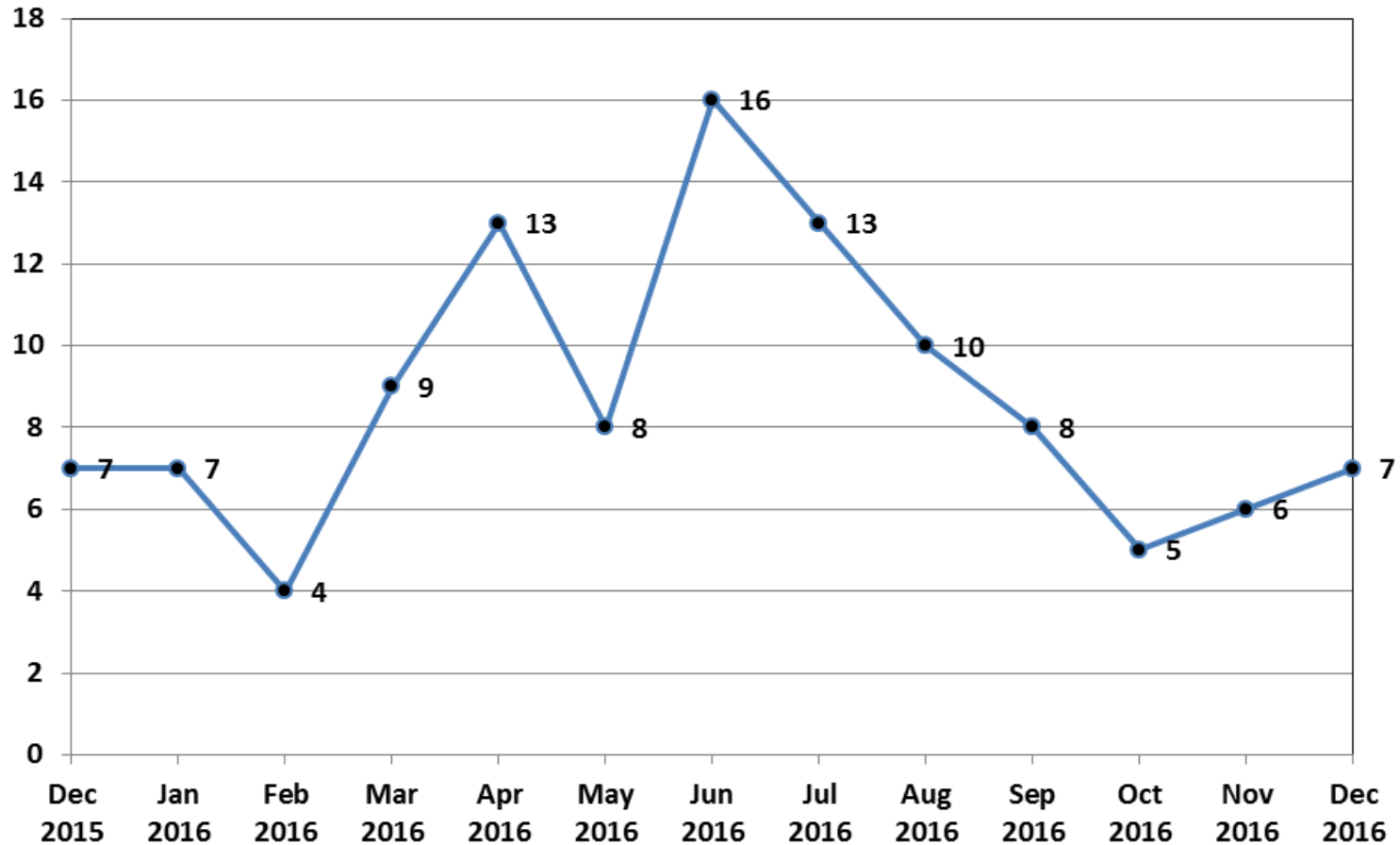
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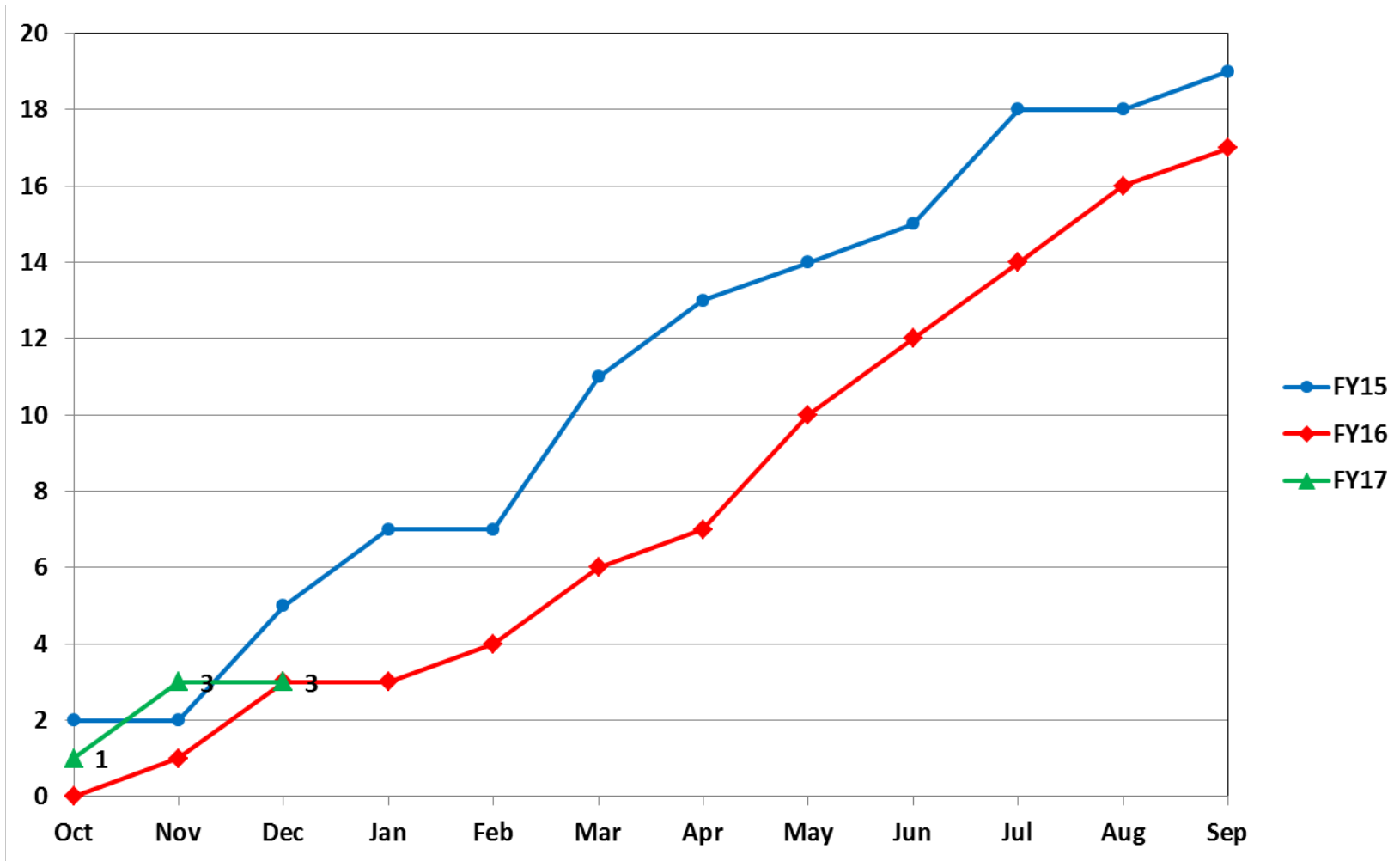
U.S. Registered Rotorcraft Cumulative Accident Count: FY15 - 17



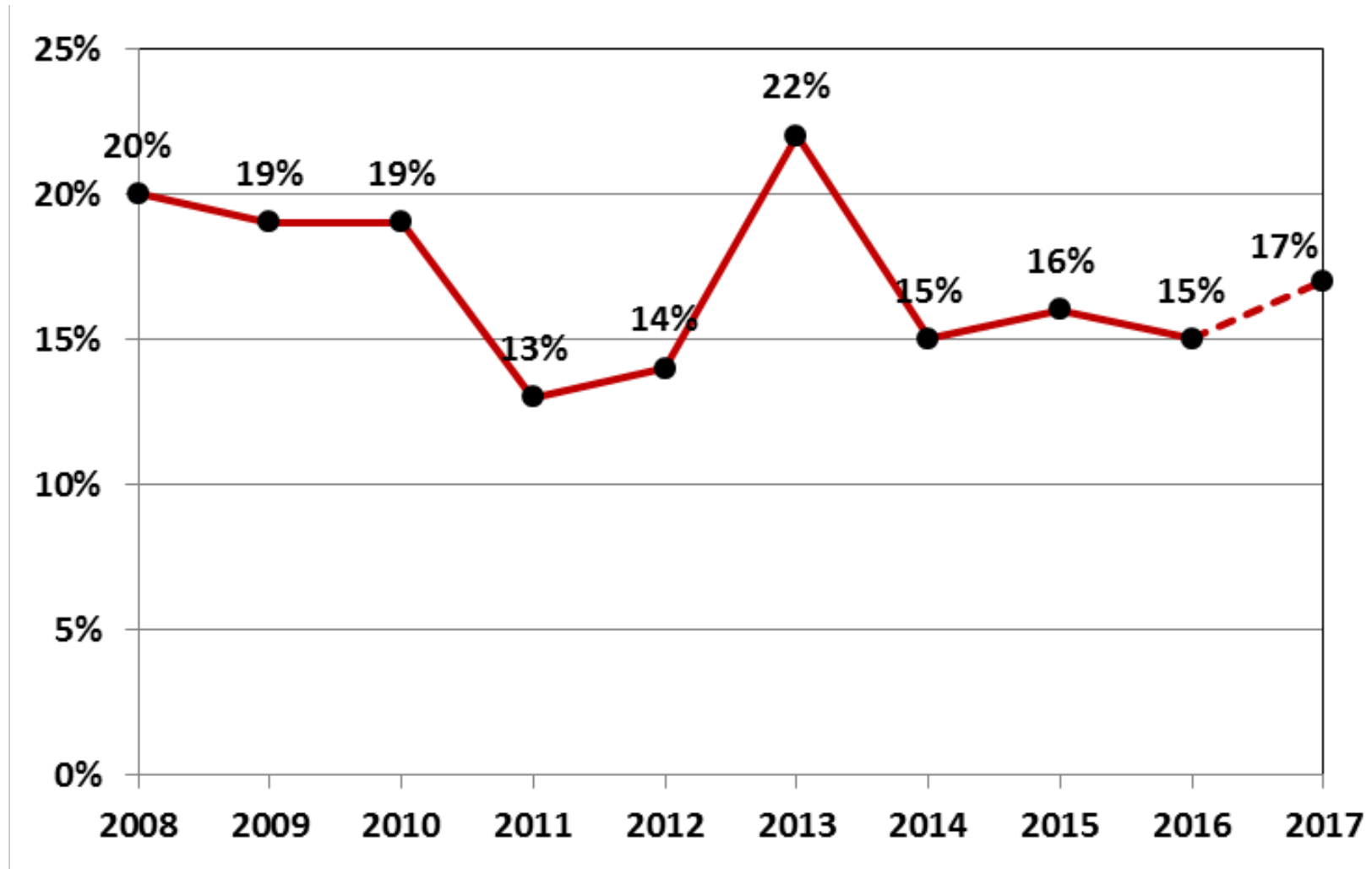
U.S. Registered Rotorcraft 13 Month Rolling Accident Count



U.S. Registered Rotorcraft Cumulative Fatal Accident Count: FY15 - 17



% of Rotorcraft Accidents with a Fatality (FY17, Oct-Dec)



FY 17 – U.S. Registered Fatal Rotorcraft Accidents

- 11-16-16 – MDHI, N81GG, Pukoo, HI, Part 91, 2 Fatal
- Night VFR Personal/Private flight from Oahu to private residence on Molokai
 - Localized low visibility with heavy rain
 - Crashed ½ mile from pilot’s private helipad
- NTSB: [WPR17FA021](#)
- 10-6-16 – Fairchild Hiller FH 1100, N4035G, Lino Lakes, MN, Part 91, 2 Fatal
- Personal/Private flight, in-flight breakup
 - Post crash fire
- NTSB: [CEN17FA012](#)

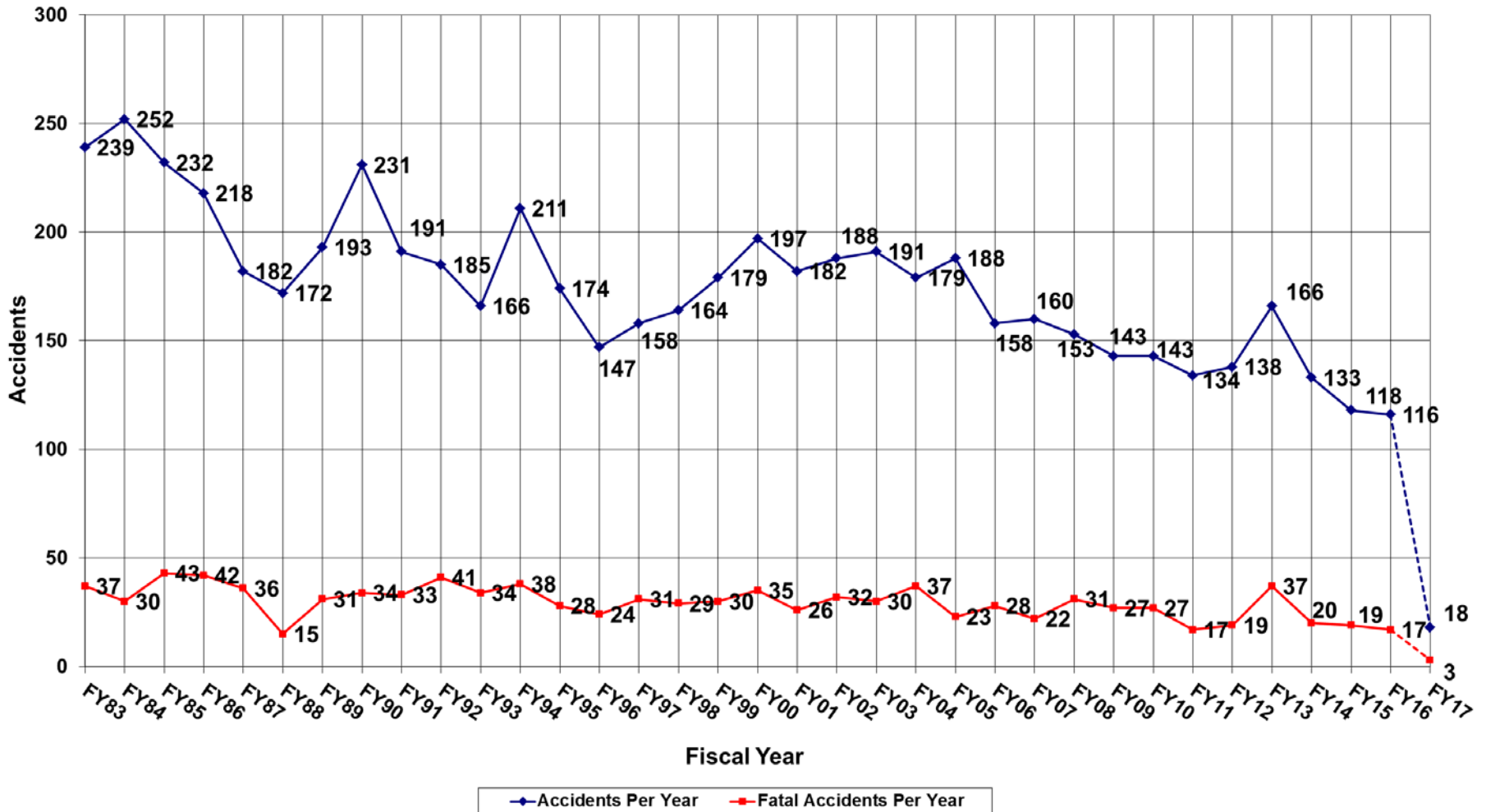
FY 17 – U.S. Registered Fatal Rotorcraft Accidents Outside U.S.

11-19-16 – Agusta Westland A109AII, N109W, Varese, Italy, 1 Fatal, 2 Serious

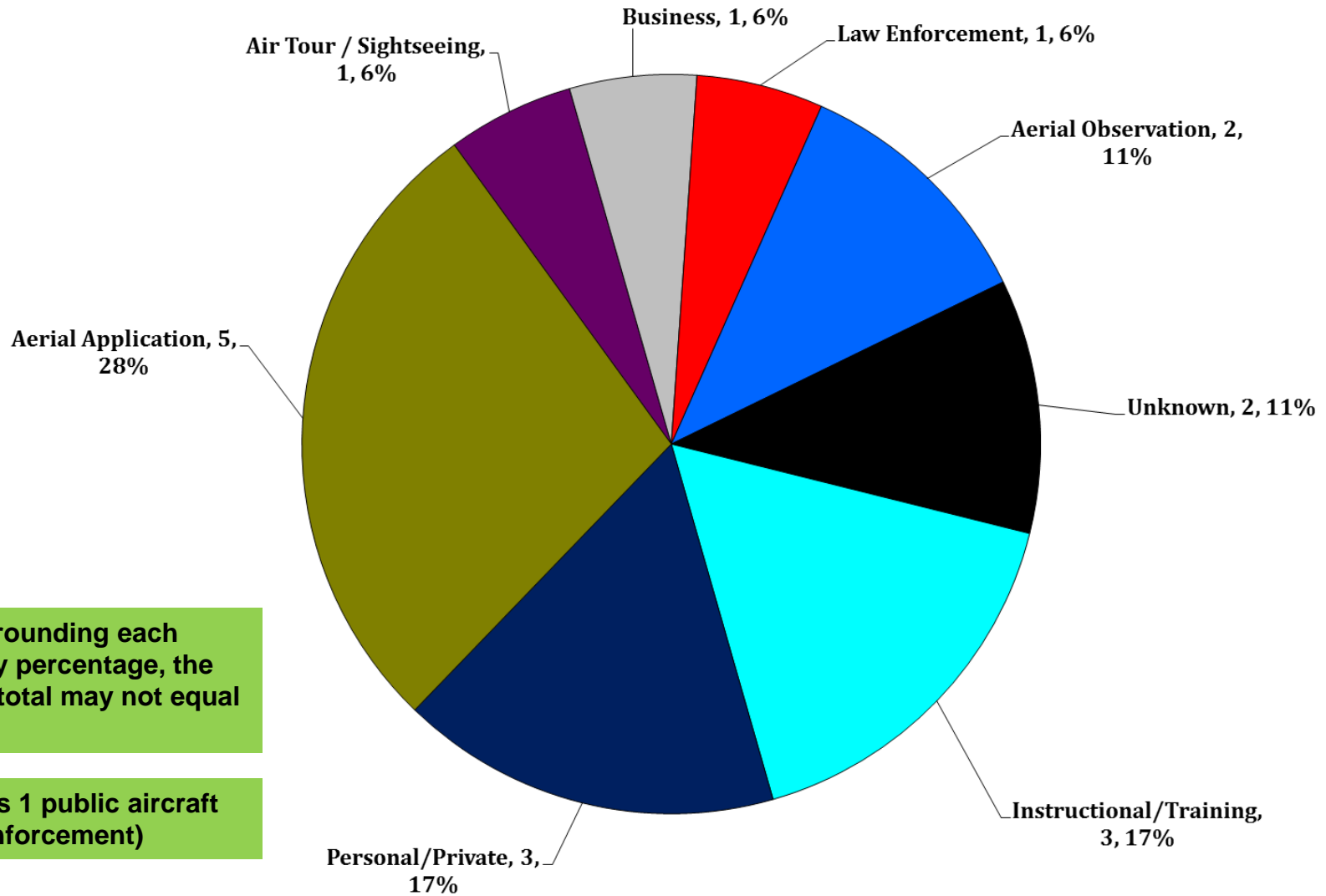
– Crashed in mountainous area near Italian/Swiss border [NTSB: ERA17WA060](#)



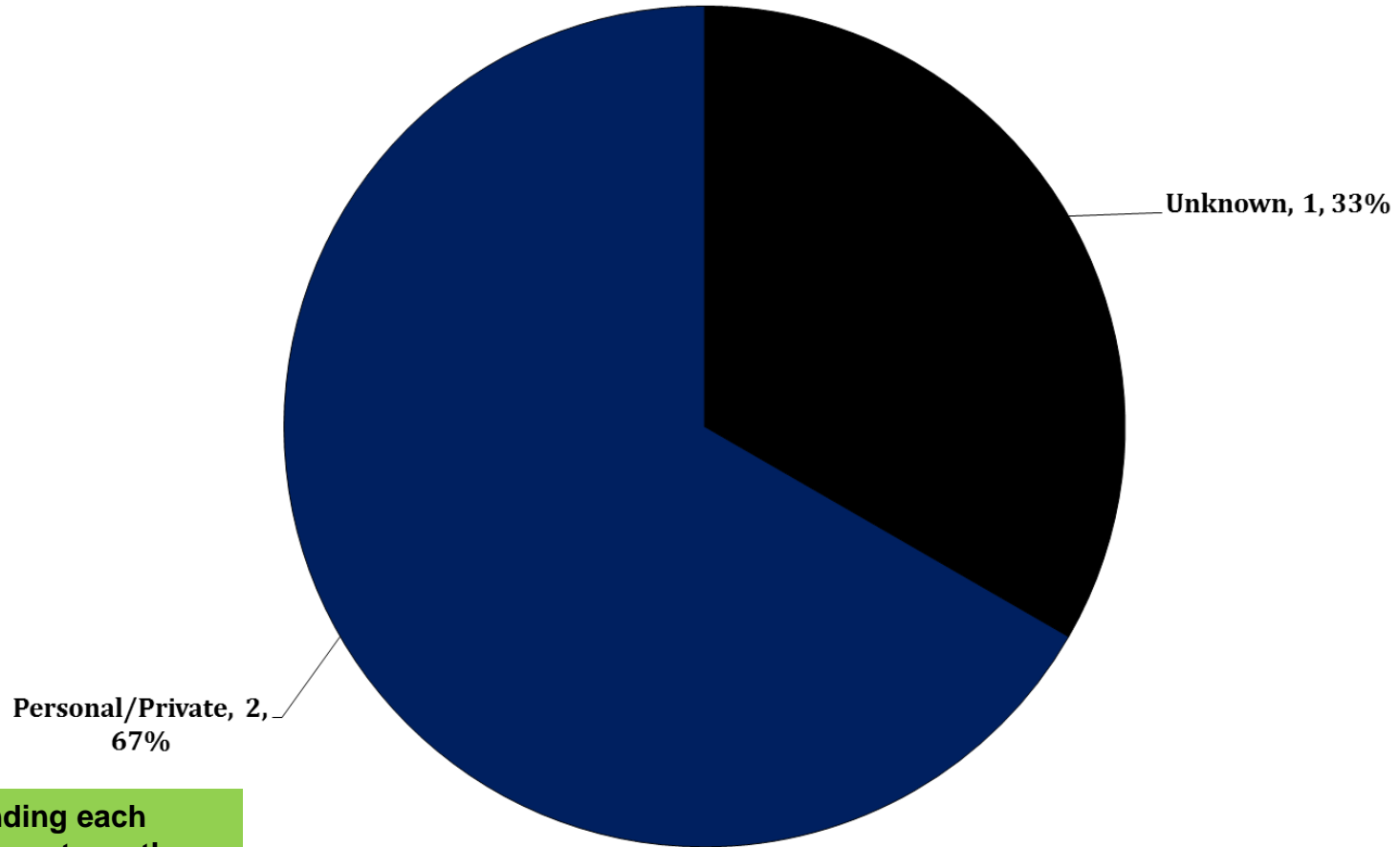
U.S. Registered Rotorcraft Accidents FY83 - FY17



FY 17 – Total Accidents by Industry (Oct-Dec 2016)



FY 17 – Total FATAL Accidents by Industry (Oct-Dec 2016)



Personal/Private, 2,
67%

Unknown, 1, 33%

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

FY 17 - US Rotorcraft Accidents By Model

| MFR | Model | Registered U.S. Fleet Size | Percentage of Total U.S. Fleet | Number of FY17 U.S. Registered Accidents | Percentage of Total FY17 U.S. Registered Accidents |
|---------------------------|--------------|-----------------------------------|---------------------------------------|---|---|
| Airbus Helicopters | AS350 | 846 | 8% | 1 | 6% |
| | BK117 | 173 | 2% | | |
| | EC120 | 93 | 1% | | |
| | EC130 | 204 | 2% | | |
| | EC135 | 265 | 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 Jan 2016

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|-------------|--------------|-----------------------------------|---------------------------------------|---|---|
| Bell | 206Bs | 1,003 | 9% | 1 | 6% |
| | 206Ls | 557 | 5% | | |
| | 407 | 667 | 6% | | |
| | 412 | 102 | 1% | | |

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|-----------------|-------------|----------------------------|--------------------------------|--|--|
| Robinson | R-22 | 1,017 | 9% | 5 | 28% |
| | R-44 | 1,492 | 13% | 3 | 17% |
| | R-66 | 191 | 2% | | |

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|-----------------|----------------------------------|-----------------------------------|---------------------------------------|---|---|
| Sikorsky | (Schweizer) 269/300/TH-55 | 619 | 6% | | |
| | S-76 | 214 | 2% | | |
| | S-92 | 84 | 1% | | |

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|-------------------------------|----------------|----------------------------|--------------------------------|--|--|
| Agusta | A109 | 145 | 1% | 1 | 6% |
| | A119 | 78 | 1% | | |
| | AW139 | 105 | 1% | | |
| Brantly | B-2 | 82 | 1% | | |
| Enstrom | 280 | 96 | 1% | | |
| | 480 | 58 | 1% | | |
| | F28 | 172 | 2% | | |
| Fairchild Hiller | FH-1100 | 19 | < 1% | 1 | 6% |
| Hiller | UH-12/H-23 | 291 | 3% | 1 | 6% |
| MDHI | 369 | 572 | 5% | 2 | 11% |
| Restricted Category (all TCs) | HH-1/TH-1/UH-1 | 238 | 2% | 1 | 6% |
| | OH-58 | 111 | 1% | 2 | 11% |
| Scott's Bell | 47 | 624 | 6% | | |

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