CLASS A FLIGHT MISHAPS
Manned Aircraft Only

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY17 MISHAPS/MISHAP RATE: 9/1.07
10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 9.40/1.05

16-May-18 9/1.89
16-May-17 5/0.96

*see last slide for definition of UCI/LCI
CLASS A AVIATION MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY17 MISHAPS/MISHAP RATE: 13/1.55
10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 11.80/1.32

16-May-18 9/1.89
16-May-17 8/1.53

*see last slide for definition of UCI/LCI
CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

- **16-May-18**: 0/0.00
- **16-May-17**: 2/1.04

**FY17 MISHAPS/MISHAP RATE:** 4/1.29

**10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE:** 5.60/1.81

*see last slide for definition of UCI/LCI*
CLASS A SHORE ON-DUTY MISHAPS

Class A Mishap Numbers and Rates

<table>
<thead>
<tr>
<th>Year</th>
<th>Mishap Numbers</th>
<th>Mishap Rate</th>
<th>Rate UCI*</th>
<th>Rate LCI*</th>
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<td>0.25</td>
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<tr>
<td>2011</td>
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<td>2015</td>
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<td>2016</td>
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<td>2017</td>
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<tr>
<td>2018</td>
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<td>0.20</td>
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</table>

Class A Mishap Rate FY Comparison:
- FY17 Mishap Rate: 4/1.17
- 10-Year Average (FY08-17) Mishap Rate: 4.10/1.17

*see last slide for definition of UCI/LCI
FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 1/0.29
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 3.00/0.86

16-May-18 1/0.47 16-May-17 1/0.47

*see last slide for definition of UCI/LCI
CLASS A ON-DUTY MV MISHAPS

**CLASS A MISHAPS/MISHAP RATE FY COMPARISON:**

- **16-May-18:** 0/0.00
- **16-May-17:** 1/0.47

**FY17 MISHAPS/MISHAP RATE:** 1/0.29

**10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE:** 1.70/0.49

*see last slide for definition of UCI/LCI*
TOTAL CLASS A ON-DUTY MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY17 MISHAPS/MISHAP RATE: 23/6.70
10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 26.20/7.47

*see last slide for definition of UCI/LCI
ON-DUTY FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE:
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE:

16-May-18 16-May-17
8/3.73 2/0.93
20/5.83 12.80/3.65

*see last slide for definition of UCI/LCI
PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY17 FATALITIES/FATALITY RATE: 34/9.91
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 36.20/10.31

16-May-18 18/8.40
16-May-17 21/9.79

*see last slide for definition of UCI/LCI
4-WHEEL PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
16-May-18  16-May-17
FY17 FATALITIES/FATALITY RATE: 9/4.20  10/4.66
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 12/3.50  15.30/4.35

pedestrian fatalities not included

*see last slide for definition of UCI/LCI
MOTORCYCLE PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 21/6.12
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 17.80/5.07

16-May-18 8/3.73  
16-May-17 10/4.66

*see last slide for definition of UCI/LCI
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY17 FATALITIES/FATALITY RATE: 7/2.04
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 10.40/2.96

16-May-18 4/1.87 16-May-17 5/2.33
CIVILIAN LOST WORK DAY

LOST WORK DAY FY RATE COMPARISON:

<table>
<thead>
<tr>
<th>Year</th>
<th>Lost Work Day Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY17</td>
<td>24.30</td>
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<tr>
<td>5-year average (FY13-17)</td>
<td>25.62</td>
</tr>
</tbody>
</table>

31 Mar 18

*see last slide for definition of UCI/LCI*
MILITARY LOST TIME CASE RATE

Lost Work Time Case Rate: 2.02
FY17 Lost Time Case Rate: 2.45
5-Year Average (FY13-17) Lost Time Case Rate: 2.18

*see last slide for definition of UCI/LCI
CLASS A FLIGHT MISHAPS
Manned Aircraft Only

CLASS A FM/FM RATE FY COMPARISON:

FY17 MISHAPS/MISHAP RATE: 10/4.32
10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 6.70/2.51
### CLASS A AVIATION MISHAPS

**CLASS A MISHAPS/MISHAP RATE FY COMPARISON:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Mishap Numbers</th>
<th>Mishap Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
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<td>5.19</td>
</tr>
<tr>
<td>2018</td>
<td>4</td>
<td>2.96</td>
</tr>
</tbody>
</table>

**16-May-18**

- **Mishap Numbers:** 4
- **Mishap Rate:** 2.96

**16-May-17**

- **Mishap Numbers:** 7
- **Mishap Rate:** 5.02

**FY17 MISHAPS/MISHAP RATE:** 12/5.19

10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 8.00/2.97
CLASS A GROUND ON-DUTY MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY17 MISHAPS/MISHAP RATE: 6/3.15
10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 6.30/3.08

16-May-18 3/2.52
16-May-17

*see last slide for definition of UCI/LCI
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY17 FATALITIES/FATALITY RATE: 2/1.05
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 1.70/0.84

16-May-18 16-May-17
1/0.84

PT fatalities are also reflected in the Ground On-Duty Mishap slide.

*see last slide for definition of UCI/LCI
CLASS A ON-DUTY MV MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

- 16-May-18: 0/0.00
- 16-May-17: 1/0.84

FY17 MISHAPS/MISHAP RATE: 3/1.57

10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 4.70/2.29

*see last slide for definition of UCI/LCI
TOTAL CLASS A ON-DUTY MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
- 16-May-18: 6/5.04
- 16-May-17: 11/9.23

FY17 MISHAPS/MISHAP RATE:
- 21/11.01

10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE:
- 19.00/9.34

*see last slide for definition of UCI/LCI
ON-DUTY FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY17 FATALITIES/FATALITY RATE: 26/13.63
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 18.30/9.03

*see last slide for definition of UCI/LCI
PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 35/18.35
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 35.70/17.54

*see last slide for definition of UCI/LCI
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 12/6.29
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 17.80/8.68

16-May-18 8/6.72 16-May-17 5/4.20

pedestrian fatalities not included

*see last slide for definition of UCI/LCI
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY17 FATALITIES/FATALITY RATE: 18/9.44
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 15.10/7.47

*see last slide for definition of UCI/LCI
OFF-DUTY/REC FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 10/5.24
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 9.00/4.39

16-May-18 4/3.36
16-May-17 9/7.55

*see last slide for definition of UCI/LCI
CIVILIAN LOST WORK DAY

LOST WORK DAY FY RATE COMPARISON: 25.80
FY17 LOST WORK DAY RATE: 30.70
5-YEAR AVERAGE (FY13-17) LOST WORK DAY RATE: 23.92

*see last slide for definition of UCI/LCI
MILITARY LOST TIME CASE RATE

Lost Work Time Case Rate: 2.42
FY17 Lost Time Case Rate: 3.04
5-Year Average (FY13-17) Lost Time Case Rate: 2.61

*see last slide for definition of UCI/LCI.
Navy Short Narratives

- **USN AVIATION CLASS A MISHAPS** (includes UAS/UAV, FRMs and AGMs not included in the Flight Slide)
  
  27 Apr 2018: (AUTEC Op Area) MH-60S with a suspected compressor stall settled onto a support vessel at sea. No injuries.
  
  25 Apr 2018: (VACAPES) During CQ, FOD from an F/A-18E severely injured a sailor's leg. Aircraft landed safely ashore.
  
  
  13 Apr 2018: (Omaha, NE) P-3C encountered hailstorm resulting in Class A damage and made an emergency landing at KOMA.
  
  14 Mar 2018: (Key West, FL) F/A-18F while flying single engine, crashed on short final. 2 fatalities.
  
  11 Dec 2017: (Tinker AFB, OK) E-6A struck birds during descent, leading to number 4 engine flameout.
  
  04 Dec 2017: (NAS Fallon) FA-18A right leading edge flap departed aircraft in flight and hit the vertical stabilizer.
  
  22 Nov 2017: (Philippine Sea) C-2A ditched while inbound to CVN with 11 onboard. 3 fatalities.
  
  01 Oct 2017: (Monroe County, TN) T-45C crashed on low-level training route. 2 fatalities.

- **USN AFLOAT CLASS A MISHAPS**
  No mishap this FY.

- **USN SHORE CLASS A MISHAPS**
  04 Oct 2017: (MCAS Cherry Point, NC) Damage to rotor testing facility and 3 rotor blades during contractor maintenance.

- **USN PHYSICAL TRAINING CLASS A MISHAPS**
  06 Dec 2017: (NSA Bahrain) E-5 died after sustaining head injury at base pool. Transferred to Germany for assessment and passed away on 13 DEC.

- **USN ON-DUTY MOTOR VEHICLE CLASS A MISHAPS**
  No mishap this FY.
Navy Short Narratives (cont’d)

- **USN PRIVATE MOTOR VEHICLE FATALITIES**
  14 May 2018: (Hanover County, VA) E-3 front seat passenger died when vehicle left road and stuck a tree.
  02 May 2018: (Virginia Beach, VA) E-6 motorcyclist died in a multi-vehicle mishap.
  22 Apr 2018: (Chesapeake, VA) E-5 died in a collision while driving a non-street legal vehicle on a residential street.
  08 Apr 2018: (Jacksonville, FL) E-6 killed and E-4 injured when motorcycle collided with semi-truck after exiting the Interstate.
  05 Apr 2018: (Juffair, Bahrain) E-5 died after being struck by a vehicle while crossing the street.
  05 Apr 2018: (Marathon, FL) E-6 killed in a single-vehicle mishap.
  22 Feb 2018: (Norfolk, VA) E-5 died in a motorcycle mishap when he was struck by another vehicle.
  17 Feb 2018: (Lemoore, CA) E-4 motorcyclist died when he was struck by a drunk driver from behind.
  10 Feb 2018: (Thornburg, VA) E-5 travelling with his family, died in a multi-vehicle mishap on the Interstate.
  31 Dec 2017: (Merrillville, IN) E-5 passenger died on 02 Jan from injuries in a single-vehicle, multi-fatality crash.
  31 Dec 2017: (Chula Vista, CA) E-3 passenger died on 02 Jan from injuries in a single-vehicle crash.
  03 Dec 2017: (San Diego County, CA) E-6 died in a single vehicle motorcycle mishap.
  29 Nov 2017: (Newport News, VA) E-6 died after losing control of motorcycle and sliding into a sedan.
  29 Nov 2017: (Hampton, VA): E-4 died of injuries on 1 Dec after motorcycle collided with van.
  24 Nov 2017: (San Bernardino, CA) E-3 died after motorcycle impacted guardrail.
  20 Nov 2017: (Fleming Key, CA) E-6 missed turn and drove into and submerged in channel.
  13 Oct 2017: (Ochopee, FL) E-4 died after impacting back of flat-bed tow truck on the interstate.

- **USN OFF-DUTY/RECREATIONAL FATALITIES**
  04 May 2018: (Olympic National Park, WA) E-5 went missing after going hiking alone. His body was recovered from a 300 foot ravine on 13 May.
  04 May 2018: (James City County, VA) E-5 swimming with a friend to a sandbar in the river, disappeared below the surface. Body recovered 4 hours later.
  31 Dec 2017: (Portland, ME) E-4 died from injuries sustained after falling from a building.
  11 Nov 2017: (Zanzibar) O-3 lost consciousness while spearfishing and died. Second O-3 hospitalized.
Marine Corps Short Narratives

- **USMC AVIATION CLASS A MISHAPS** (includes UAS/UAV, FRMs and AGMs not included in the Flight Slide)
  03 Apr 2018: (El Centro, CA) CH-53E impacted ground while on approach into a landing zone. 4 fatalities.
  02 Apr 2018: (Djibouti Ambouli International) AV-8B shortly after lift-off impacted ground, pilot ejected safely.
  21 Feb 2018: (MCAS Camp Pendleton, CA) O-3 died on 24 Feb from injuries sustained when he was struck by a UH-1Y tail rotor. (AGM)
  11 Oct 2017: (Futenma MCAS, Japan) CH-53E engine fire in flight, emergency landing. No injuries.

- **USMC GROUND CLASS A MISHAPS**
  22 Jan 2018: (Coolidge, AZ) E-4 on TAD died after impacting ground during Multi Mission Parachute (MMPC) training event.

- **USMC PHYSICAL TRAINING CLASS A MISHAPS**
  26 Oct 2017: (NAS Oceana, VA) E-7 running with two others, dropped back and collapsed. Regained weak pulse after CPR but pronounced dead at the hospital.

- **USMC ON-DUTY MOTOR VEHICLE CLASS A MISHAPS**
  No mishap this FY.

- **USMC PRIVATE MOTOR VEHICLE FATALITIES**
  29 Apr 2018: (Temecula, CA) E-3 died in hospital on 30 April from injuries sustained in a motorcycle mishap.
  21 Apr 2018: (Brevard County, FL) E-2 passenger killed when vehicle stuck parked pickup on the side of the Interstate.
  17 Mar 2018: (Kailua, HI) E-3 died in a motorcycle mishap.
  09 Mar 2018: (Twentynine Palms, CA) E-4 died after motorcycle impacted the rear of an SUV.
  26 Feb 2018: (Vista, CA) E-5 motorcyclist died after he was hit by another vehicle.
Marine Corps Short Narratives

**USMC PRIVATE MOTOR VEHICLE FATALITIES (con't)**

18 Feb 2018: (Maple Hill, NC) E-4 was riding his motorcycle with a group of riders when he collided head-on with another E-4 motorcyclist. Both SVMs died.

16 Feb 2018: (San Diego, CA) E-3 motorcyclist died when he was hit by a vehicle while riding on a highway.

07 Feb 2018: (Princess Anne, MD) E-2 died in an automobile mishap after he lost control, struck guardrail and went into a ditch.

02 Feb 2018: (San Clemente, CA) E-5 died in an automobile mishap after he lost control, struck pole and rolled over.

25 Jan 2018: (Fort Worth, TX) E-5 died in an automobile mishap after he lost control of the vehicle and was ejected.

17 Jan 2018: (Dallas, GA) E-5 died in an automobile mishap when he lost control of his vehicle on an icy road.

23 Dec 2017: (Denton, MD) E-3 passenger died in a motor vehicle mishap.

03 Dec 2017: (New Bern, NC) E-3 died after losing control at high rate of speed and going airborne prior to impacting trees.

01 Dec 2017: (Miramar, CA) E-4 lost control of motorcycle and slid on Interstate and was fatally struck by another vehicle.

30 Nov 2017: (Jacksonville, NC) E-4 died on 04 Jan from injuries as passenger.

29 Oct 2017: (Camp Pendleton, CA) E-5 died after motorcycle impacted guardrail on base.

20 Oct 2017: (Vista, CA) E-3 died after being struck by vehicle while crossing the highway.

**USMC OFF-DUTY/RECREATIONAL FATALITIES**

03 Mar 2018: (MCB Camp Foster, Okinawa, Japan) E-3 was found unresponsive in his barracks room and could not be resuscitated.

26 Dec 2017: (Okinawa City, Japan) E-3 died after fall from 5th floor balcony of off-base residence.

16 Nov 2017: (Twentynine Palms, CA) E-3 died on 18 Nov from internal injuries during weight lifting.

20 Oct 2017: (McLean, VA) E-1 died after a fall while hiking.
Mishap Confidence Interval

- UCI = Upper Confidence Interval    LCI = Lower Confidence Interval

- Rate values above the UCI or below the LCI infer a statistically significant change is probable. This is only an indicator. Significance cannot be determined until end-of-year.

- Values between the UCI and LCI infer that nothing significant has occurred to increase or decrease mishap rate.

(Confidence Interval is based on: Poisson Rate related to a Chi Squared Distribution and calculated using FY13-17 data except for the Lost Work Days and Lost Time Case slides which were based on a normal distribution).