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

27-Jun-17: 5/0.80
27-Jun-18: 9/1.45

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

27-Jun-18  10/1.61
27-Jun-17  8/1.28

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

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

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 MISHAPS/MISHAP RATE FY COMPARISON:
- **27-Jun-18**: 1/0.39
- **27-Jun-17**: 4/1.57

FY17 MISHAPS/MISHAP RATE: 4/1.17
10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 4.10/1.17

*see last slide for definition of UCI/LCI*
PHYSICAL TRAINING FATALITIES

FATALITIES/FATALITY RATE FY COMPARISON:

FY17 FATALITIES/FATALITY RATE:
1/0.29

10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE:
3.00/0.86

27-Jun-17

27-Jun-18

FATALITIES/FATALITY RATE FY COMPARISON:

2/0.79

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

<table>
<thead>
<tr>
<th>Year</th>
<th>Mishap Numbers</th>
<th>Rate UCI</th>
<th>Rate LCI</th>
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<tr>
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<td>4</td>
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</tr>
<tr>
<td>2018</td>
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</table>

27-Jun-18 27-Jun-17
0/0.00 1/0.39

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:
- 2008: 33
- 2009: 35
- 2010: 18
- 2011: 23
- 2012: 23
- 2013: 28
- 2014: 36
- 2015: 26
- 2016: 17
- 2017: 23
- 2018: 14

Mishap Numbers:
- 2008: 33
- 2009: 35
- 2010: 18
- 2011: 23
- 2012: 23
- 2013: 28
- 2014: 36
- 2015: 26
- 2016: 17
- 2017: 23
- 2018: 14

Mishap Rate:
- 2008: 14
- 2009: 17
- 2010: 23
- 2011: 23
- 2012: 23
- 2013: 26
- 2014: 26
- 2015: 17
- 2016: 14
- 2017: 14
- 2018: 14

Rate UCI*:
- 2008: 5
- 2009: 10
- 2010: 15
- 2011: 20
- 2012: 25
- 2013: 30
- 2014: 35
- 2015: 40
- 2016: 35
- 2017: 30
- 2018: 25

Rate LCI*:
- 2008: 10
- 2009: 15
- 2010: 20
- 2011: 25
- 2012: 30
- 2013: 35
- 2014: 40
- 2015: 35
- 2016: 30
- 2017: 25
- 2018: 20

27-Jun-18: 14/5.51
27-Jun-17: 17/6.69

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 20/5.83
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 12.80/3.65

27-Jun-18  9/3.55
27-Jun-17  10/3.93

*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

27-Jun-18  27-Jun-17
20/7.88     24/9.44

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 12/3.50
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 15.30/4.35

pedestrian fatalities not included
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

27-Jun-18  9/3.55
27-Jun-17  13/5.11

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

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

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

LOST WORK DAY FY RATE COMPARISON: 20.70
FY17 LOST WORK DAY RATE: 24.30
5-YEAR AVERAGE (FY13-17) LOST WORK DAY RATE: 25.62

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

31 Mar 18

LOST WORK TIME CASE RATE: 2.10
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:

FY17 MISHAPS/MISHAP RATE: 12/5.19
10-YEAR AVERAGE (FY08-17) MISHAPS/MISHAP RATE: 8.00/2.97

27-Jun-18 4/2.30 27-Jun-17 8/4.78
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

27-Jun-18  3/2.13  27-Jun-17  4/2.83

*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

*see last slide for definition of UCI/LCI

PT fatalities are also reflected in the Ground On-Duty Mishap slide.
### CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

- **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:

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Mishap Numbers</th>
<th>Mishap Rate</th>
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<tr>
<td>2018</td>
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</table>

27-Jun-18 7/4.96  27-Jun-17 13/9.20

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

27-Jun-18  8/5.67
27-Jun-17  3/2.12

*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
4-WHEEL PMV FATALITIES

**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
- **27-Jun-18:** 13/9.22
- **27-Jun-17:** 6/4.25

*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

27-Jun-18 5/3.54 27-Jun-17 9/6.37

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

Lost Work Day FY Rate Comparison:
31 Mar 18

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 Time Cases/100 Persons per Year

Number

Lost Time Cases: 7518, 7253, 7276, 6278, 5357, 4929, 4679, 4676, 6270, 5799, 2373

Year

Lost Work Time Case Rate: 2.49

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)
  
  07 June 2018: ((Western Pacific near Guam) FA-18E experienced fire indications and engine failure immediately after catapult launch. Aircraft recovered safely on single engine.

  16 May 2018: (Andros Island, Bahamas) MH-60R lost a dipping sonar while conducting sonar operations. (FRM)

  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.


  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**
  
  10 May 2018: (Cheatham Annex, VA) E-5 permanently disabled in fall within a crane pedestal ladder-well onboard ship.

- **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**
  
  25 May 2018: (Portsmouth, VA) E-5 became unresponsive during Tactical Combat Casualty Care course and later died.

  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.
Navy Short Narratives (cont’d)

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

- **USN PRIVATE MOTOR VEHICLE FATALITIES**
  15 Jun 2018: (San Diego, CA) O-2 died in a multi-vehicle motorcycle mishap.
  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.
  23 Nov 2017: (Grovetown, GA) E-4 passenger died after impacting a telephone pole.
  20 Nov 2017: (Fleming Key, CA) E-6 missed turn and drove into and submerged in channel.
  14 Oct 2017: (Nephi, UT) E-3 died after impacting back of semi-trailer on the interstate.
  13 Oct 2017: (Ochopee, FL) E-4 died after impacting back of flat-bed tow truck on the interstate.
Navy Short Narratives (cont’d)

- **USN OFF-DUTY/RECREATIONAL FATALITIES**

  22 Jun 2018: (Lake Cushman, Olympic National Park, WA) E-2 died after jumping off 20 foot rock at popular swimming area.

  20 May 2018: (Honolulu, HI) O-1 found unresponsive while SCUBA diving.

  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**
  25 May 2018: (MCAS Futenma, Japan) E-4 collapsed during a squadron run and could not be resuscitated.
  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**
  17 Jun 2018: (Jacksonville, NC) E-3 died in a single-vehicle automobile mishap.
  17 Jun 2018: (Lacey, WA) E-5 died in an automobile mishap when he struck another vehicle head on.
  16 Jun 2018: (Glendora, CA) E-3 died in a single-vehicle motorcycle mishap after he hit a curb and overcorrected.
  09 Jun 2018: (Gig Harbor, WA) E-3 killed in a two-car collision.
  09 Jun 2018: (Gig Harbor, WA) E-3 killed in a two-car collision.
  24 May 2018: (Twentynine Palms, CA) E-3 passenger died after impacting pole while in a liberty status on base.
Marine Corps Short Narratives

- **USMC PRIVATE MOTOR VEHICLE FATALITIES (con't)**
  
  20 May 2018: (Reading, PA) While returning home from a drill weekend, O-3 killed after impacting rear of a tractor trailer on the interstate.
  
  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.
  
  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**
  
  17 May 2018: (Kings Bay, GA) E-4 killed in fall from three story barracks.
  
  03 Mar 2018: (MCB Camp Foster, Okinawa, Japan) E-3 was found unresponsive in his barracks room and could not be resuscitated.
USMC OFF-DUTY/RECREATIONAL FATALITIES (con’t)

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.)