CLASS A FLIGHT MISHAPS

Manned Aircraft Only

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

<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>10/1.20</td>
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</tbody>
</table>

*see last slide for definition of UCI/LCI

9-Jan-19  3/1.40  9-Jan-18  4/1.87

FY18 MISHAPS/MISHAP RATE:  10/1.20
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE:  9.00/1.02
CLASS A AVIATION MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY18 MISHAPS/MISHAP RATE: 15/1.80
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 11.60/1.32

9-Jan-18 4/1.87  9-Jan-19 4/1.86

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

- FY18 MISHAPS/MISHAP RATE: 5/1.62
- 10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 5.60/1.81

9-Jan-19  9-Jan-18
1/1.17   0/0.00

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY18 MISHAPS/MISHAP RATE: 2/0.57
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 3.60/1.03

9-Jan-18: 1/1.03
9-Jan-19: 3/3.08

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

FATALITIES/FATALITY RATE FY COMPARISON:

FY2018 FATALITIES/FATALITY RATE: 2/0.57
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 3.10/0.88

9-Jan-19: 0/0.00
9-Jan-18: 1/1.03

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

9-Jan-19  0/0.00  9-Jan-18  0/0.00
FY18 MISHAPS/MISHAP RATE:  1/0.28
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE:  1.40/0.40

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

- FY18 MISHAPS/MISHAP RATE: 25/7.10
- 10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 25.30/7.23

9-Jan-19  8/8.21
9-Jan-18  6/6.15

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY18 FATALITIES/FATALITY RATE: 15/4.26
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 12.60/3.60

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY18 FATALITIES/FATALITY RATE:
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE:

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

- FY18 FATALITIES/FATALITY RATE: 15/4.26
- 10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 13.80/3.94

*see last slide for definition of UCI/LCI

pedestrian fatalities not included
MOTORCYCLE PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY18 FATALITIES/FATALITY RATE: 14/3.98
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 15.90/4.55

9-Jan-19  4/4.11
9-Jan-18  4/4.10

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

- **FY18 FATALITIES/FATALITY RATE:** 10/2.84
- **10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE:** 9.30/2.65

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

Lost Days
Lost Day Rate
Rate UCI*
Rate LCI*

CIVILIAN LOST WORK DAY FY RATE COMPARISON:

LOST WORK DAY FY RATE COMPARISON: 18.50
FY18 LOST WORK DAY RATE: 21.10
5-YEAR AVERAGE (FY14-18) LOST WORK DAY RATE: 24.89

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

**Lost Work Time Case Rate**: 2.13

**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:
FY18 MISHAPS/MISHAP RATE: 5/2.08
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 6.50/2.49
CLASS A AVIATION MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

- **FY18 MISHAPS/MISHAP RATE:** 3/5.12
- **9-Year Average (FY09-18) MISHAPS/MISHAP RATE:** 7.90/3.00
CLASS A GROUND ON-DUTY MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

9-Jan-19: 2/3.79
9-Jan-18: 1/1.89

FY18 MISHAPS/MISHAP RATE: 4/2.10
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 6.20/3.05

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

FY18 FATALITIES/FATALITY RATE: 3/1.57
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 1.60/0.80

9-Jan-19 0/0.00 9-Jan-18 1/1.89

*see last slide for definition of UCI/LCI

PT fatalities are also reflected in the Ground On-Duty Mishap slide
CLASS A ON-DUTY MV MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY18 MISHAPS/MISHAP RATE: 0/0.00
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 4.00/1.95

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY18 MISHAPS/MISHAP RATE: 10/5.24
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 18.10/8.94

9-Jan-19  9-Jan-18
5/9.48     2/3.79

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY17 FATALITIES/FATALITY RATE: 7/13.27
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 9/4.72

9-Jan-19 9-Jan-18
18.10/8.96 1/1.89

See last slide for definition of UCI/LCI
PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 31/16.26
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 33.70/16.66

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY18 FATALITIES/FATALITY RATE: 16/8.39
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 17.10/8.39

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

<table>
<thead>
<tr>
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<th>Fatality Numbers</th>
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<td>9</td>
</tr>
<tr>
<td>2019</td>
<td>13</td>
<td>8</td>
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</tbody>
</table>

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 13/6.82
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 13.90/6.92

9-Jan-19: 4/7.58
9-Jan-18: 2/3.79

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

**CLASS A FATALITIES/FATALITY RATE FY COMPARISON:**
- FY18 FATALITIES/FATALITY RATE: 7/3.67
- 10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 8.70/4.26

**9-Jan-19**
- Fatality Numbers: 2
- Fatality Rate: 2/3.79
- Rate UCI*: 3/5.68
- Rate LCI*: 3/5.68

**9-Jan-18**
- Fatality Numbers: 10
- Fatality Rate: 7/3.67
- Rate UCI*: 8.70/4.26
- Rate LCI*: 9/3.67

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

26 May 18

LOST WORK DAY FY RATE COMPARISON:

FY17 LOST WORK DAY RATE: 33.10

5-YEAR AVERAGE (FY13-17) LOST WORK DAY RATE: 30.70

24.16

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

30 Sep 18

LOST WORK TIME CASE RATE: 2.83
FY17 LOST TIME CASE RATE: 2.92
5-YEAR AVERAGE (FY13-17) LOST TIME CASE RATE: 2.59

*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)
  12 Nov 2018: (Philippine Sea) F/A-18F aircraft malfunction resulting in loss of aircraft; aircrew recovered and in stable condition.
  18 Oct 2018: (Pacific Ocean) MH-60R crashed on takeoff onboard CVN.
  09 Oct 2018: (Kadena AFB, Japan) Two HH-60H helicopters taxied into each other on the taxi ramp. No injuries. (AGM)
  04 Oct 2018: (NAS Lemoore, CA) A right engine fire occurred on a F/A-18F during a training flight. Emergency landing with no injuries.

- **USN AFLOAT CLASS A MISHAPS**
  22 Oct 2018: (Off the Coast of Iceland) Landing Craft Units in well deck were damaged during heavy seas.

- **USN SHORE CLASS A MISHAPS**
  10 Nov 2018: (Norfolk, VA) Shipboard damage and hospitalization of an E-7 after fire while in shipyard.
  08 Nov 2018: (Virginia Beach, VA) E-5 suffered a permanent total disability while removing PVC pipe from a bollard in the shop.
  02 Nov 2018: (NAS Cecil Field, FL) Hangar fire suppression system activated due to an unknown cause and doused five F/A-18C with agent.

- **USN PHYSICAL TRAINING CLASS A MISHAPS**
  No mishap this FY.

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

- **USN PRIVATE MOTOR VEHICLE FATALITIES**
  07 Jan 2019: (Fort Pierce, FL) E-7 and his civilian spouse died when their vehicle departed the turnpike and entered canal after being struck from behind.
  29 Dec 2018: (Des Moines, IA) E-4 died on 1 January after his vehicle was struck from behind on the Interstate. Civilian passenger also killed.
  16 Dec 2018: (Stonington, CT) E-6 passenger died when his vehicle was struck by another vehicle traveling in the wrong direction on interstate. E-5 driver is in stable condition.
  16 Nov 2018: (King George, VA) E-2 died when he lost control of the vehicle and hit a tree. E-2 passenger is in stable condition.
  11 Nov 2018: (San Diego, CA) E-5 died in a single-vehicle motorcycle mishap.
  10 Nov 2018: (Melbourne, FL) E-3 died in a multi-vehicle motorcycle mishap while on PCS leave.
  10 Nov 2018: (Monterey, CA) O-3 died when he lost control of his motorcycle and hit a guardrail while merging onto a highway.
  10 Nov 2018: (Chesapeake, VA) E-7 when he lost control after passing another motorcycle.
  28 Oct 2018: (Virginia Beach, VA) E-3 passenger died in an automobile mishap after he was ejected.

- **USN OFF-DUTY/RECREATIONAL FATALITIES**
  No mishap this FY.
Marine Corps Short Narratives

- **USMC AVIATION CLASS A MISHAPS** (includes UAS/UAV, FRMs and AGMs not included in the Flight Slide)
  - 05 Jan 2019: (Mediterranean Sea) After low power refueling, AV-8B conducted a high-power run and ingested refueling grounding strap. (AGM)
  - 09 Dec 2018: (MCAS New River, NC) CH-53E landing gear inadvertently retracted during ground taxi. (AGM)
  - 05 Dec 2018: (Philippine Sea) F/A-18D and KC-130J collided while performing fixed wing aerial refueling mission. F/A-18 aircrew ejected with one fatality. 5 aircrew fatalities in the KC-130.

- **USMC GROUND CLASS A MISHAPS**
  - 01 Jan 2019: (Washington, DC) E-3 died after gunshot during guard company duty changeover.
  - 06 Nov 2018: (Coolidge, AZ) E-4 suffered a permanent total disability during a training course.

- **USMC PHYSICAL TRAINING CLASS A MISHAPS**
  - No mishap this FY.

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

- **USMC PRIVATE MOTOR VEHICLE FATALITIES**
  - 05 Jan 2019: (San Diego, CA) E-2 struck and killed by a hit and run motorist.
  - 02 Jan 2019: (Beckley, WV) E-7 died when a garbage truck collided with his vehicle.
  - 28 Dec 2018: (Garland, TX) E-6 motorcyclist died in a multi-vehicle mishap.
  - 22 Dec 2018: (Newaygo, MI) E-3 died in a single-vehicle automobile mishap.
  - 18 Nov 2018: (Julian, CA) E-4 died on 22 Nov from injuries sustained in a single-vehicle motorcycle mishap.
  - 18 Nov 2018: (Philadelphia, PA) E-8 died when he was hit by a vehicle while crossing the street.
  - 16 Nov 2018: (Temecula, CA) E-5 motorcyclist died when he collided with another vehicle.
Marine Corps Short Narratives

- **USMC PRIVATE MOTOR VEHICLE FATALITIES (continued)**
  19 Oct 2018: (Richlands, NC) E-3 died in a motorcycle mishap on his way to work.
  12 Oct 2018: (Snyder, TX) E-1 died in a multi-vehicle automobile mishap.

- **USMC OFF-DUTY/RECREATIONAL FATALITIES**
  01 Jan 2019: (Wyoming, MI) E-3 could not be revived after passing out on couch.
  20 Oct 2018: (Havelock, NC) E-3 died when his weapon accidently discharged while he was cleaning it.
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 FY14-18 data except for the Lost Work Days and Lost Time Case slides which were based on a normal distribution).