CLASS A FLIGHT MISHAPS
Manned Aircraft Only

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY19 MISHAPS/MISHAP RATE: 4/1.30
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 8.10/0.93

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

### Class A Mishaps/Mishap Rate FY Comparison

<table>
<thead>
<tr>
<th>Year</th>
<th>Unmanned Mishaps</th>
<th>Manned Mishaps</th>
<th>Mishap Rate</th>
<th>Rate UCI*</th>
<th>Rate LCI*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>7</td>
<td>10</td>
<td>10</td>
<td>4/1.30</td>
<td>4/1.32</td>
</tr>
<tr>
<td>2011</td>
<td>10</td>
<td>9</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>3</td>
<td>12</td>
<td>11</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>1</td>
<td>10</td>
<td>15</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>15</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>8</td>
</tr>
<tr>
<td>2015</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>2016</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>2017</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>8</td>
</tr>
<tr>
<td>2018</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>2019</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>2</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**19-Feb-20** 4/1.30  **19-Feb-19** 4/1.32

### 10-Year Average (FY10-19) Mishaps/Mishap Rate:

- **Rate UCI**: 10.80/1.25
- **Rate LCI**: 8/0.97

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY19 MISHAPS/MISHAP RATE: 5/1.62
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 5.20/1.68

19-Feb-20 19-Feb-19
3/2.50 1/0.83

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

- FY19 MISHAPS/MISHAP RATE: 6/1.68
- 10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 3.30/0.95

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

FATALITIES/FATALITY RATE FY COMPARISON:

FY19 FATALITIES/FATALITY RATE: 3/0.84
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 3.10/0.89

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY19 MISHAPS/MISHAP RATE: 1/0.28
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 1.50/0.43

19-Feb-20 2/1.44 19-Feb-19 0/0.00

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY19 MISHAPS/MISHAP RATE: 23/6.45
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 23.90/6.85

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY19 FATALITIES/FATALITY RATE: 5/1.40
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 11.50/3.30

19-Feb-20 19-Feb-19
3/2.16 0/0.00

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY19 FATALITIES/FATALITY RATE: 27/7.57
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 31.70/9.08

19-Feb-20  9/6.49
19-Feb-19  11/7.93

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

19-Feb-20  3/2.17
19-Feb-19  5/3.60

FY19 FATALITIES/FATALITY RATE:  11/3.08
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE:  13.10/3.75

pedestrian fatalities not included

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

FY19 FATALITIES/FATALITY RATE: 15/4.21
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 16.00/4.58

19-Feb-20 3/2.17
19-Feb-19 6/4.32

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY19 FATALITIES/FATALITY RATE: 5/1.40
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 8.60/2.46

19-Feb-20  4/2.88
19-Feb-19  2/1.44

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

LOST WORK DAY FY RATE COMPARISON:

- **12 Oct 19**
  - FY19 LOST WORK DAY RATE: 11.70
  - 5-YEAR AVERAGE (FY15-19) LOST WORK DAY RATE: 18.10
  - 5-YEAR AVERAGE (FY15-19) LOST WORK DAY RATE: 25.13

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

LOST WORK TIME CASE RATE:
30 Sep 19 1.94
FY18 LOST TIME CASE RATE:
2.21
5-YEAR AVERAGE (FY14-18) LOST TIME CASE RATE:
2.20

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

CLASS A FM/FM RATE FY COMPARISON:
FY19 MISHAPS/MISHAP RATE: 7/2.96
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 6.80/2.65

19-Feb-20 19-Feb-19
0/0.00 1/1.10
CLASS A AVIATION MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY19 MISHAPS/MISHAP RATE: 8/3.38
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 8.20/3.16

19-Feb-20  19-Feb-19
0/0.00      2/2.19
CLASS A GROUND ON-DUTY MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
- **19-Feb-20**: 0/0.00
- **19-Feb-19**: 2/2.67

FY19 MISHAPS/MISHAP RATE: 6/3.12
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 6.30/3.12

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY19 FATALITIES/FATALITY RATE: 2/1.04
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 1.60/0.81

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

19-Feb-20 19-Feb-19
0/0.00 0/0.00

*see last slide for definition of UCI/LCI
<table>
<thead>
<tr>
<th>Year</th>
<th>Mishap Numbers</th>
<th>Mishap Rate</th>
<th>Rate UCI*</th>
<th>Rate LCI*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>6</td>
<td>1</td>
<td>1/1.34</td>
<td>0/0.00</td>
</tr>
<tr>
<td>2011</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2012</td>
<td>6</td>
<td></td>
<td>1/1.34</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>5</td>
<td></td>
<td>1/1.34</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **FY19 MISHAPS/MISHAP RATE:** 3/1.56
- **10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE:** 3.50/1.73

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

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY19 MISHAPS/MISHAP RATE: 17/8.85
10-YEAR AVERAGE (FY10-19) MISHAPS/MISHAP RATE: 18.00/8.98

19-Feb-20  1/1.34
19-Feb-19  4/5.35

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Fatality Numbers</th>
<th>Fatality Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

#### FY19 FATALITIES/FATALITY RATE:
- **19-Feb-20**: 1/1.34
- **19-Feb-19**: 7/9.36
- **10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE**: 18.30/9.13

*see last slide for definition of UCI/LCI*
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY19 FATALITIES/FATALITY RATE: 27/14.05
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 32.00/16.01

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY19 FATALITIES/FATALITY RATE: 17/8.85
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 16.00/7.96

pedestrian fatalities not included

19-Feb-20 19-Feb-19
7/9.39 5/6.69

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

**CLASS A FATALITIES/FATALITY RATE FY COMPARISON:**
- **FY19 FATALITIES/FATALITY RATE:** 7/3.64
- **10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE:** 13.30/6.69

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

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY19 FATALITIES/FATALITY RATE: 8/4.16
10-YEAR AVERAGE (FY10-19) FATALITIES/FATALITY RATE: 8.20/4.08

19-Feb-20 19-Feb-19
0/0.00 2/2.67

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

LOST WORK DAY FY RATE COMPARISON:
FY19 LOST WORK DAY RATE: 9.20
5-YEAR AVERAGE (FY15-19) LOST WORK DAY RATE: 18.00

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

- 30 Sep 19: 2.82
- FY18 LOST TIME CASE RATE: 2.94
- 5-YEAR AVERAGE (FY14-18) LOST TIME CASE RATE: 2.72

*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 Jan 2020: (VACAPES / W-122) F/A-18F received FOD damage to both engines during day in flight refueling training flight.
  25 Jan 2020: (Philippine, Sea) MH-60S went down in open ocean during daytime flight off ship. All crew members were rescued.
  16 Dec 2019: (W-72 Range) F/A-18F had FOD damage as receiving aircraft after basket slap during inflight refueling.
  02 Oct 2019: (NAS Pax River, MD) E-6B struck bird and sustained engine damage during touch and go landing. Aircraft landed safely, no injuries.

- **USN AFLOAT CLASS A MISHAPS**
  03 Dec 2019: (San Diego Op Area) Flooding on LHD caused damage to cargo.
  29 Nov 2019: (San Diego, CA) Class C fire on MCM caused extensive damage to Main Machinery Room.
  14 Nov 2019: (Jacksonville, FL) Fire on LHD cause damage in cargo hold. Eleven sailors were treated for minor injuries and released.

- **USN SHORE CLASS A MISHAPS**

- **USN PHYSICAL TRAINING CLASS A MISHAPS**
  08 Feb 2020: (Annapolis, MD) Midshipman collapsed following a Physical Readiness Test and transported to a medical center where he died.
  15 Nov 2019: (FT MEADE, MD) E-6 died after collapsing on a treadmill during a Physical Readiness Test (PRT).

- **USN ON-DUTY MOTOR VEHICLE CLASS A MISHAPS**
  18 Dec 2019 (Pomoneky, MD) CIV died in a single vehicle accident resulting in a fire after striking a tree.
  30 Nov 2019: (Virginia Beach, VA) E-4 died while on patrol in a multi-vehicle collision after being hit head-on.
Navy Short Narratives (continued)

- **USN PRIVATE MOTOR VEHICLE FATALITIES**
  13 Feb 2020: (San Diego, CA) E-5 was struck by another vehicle while pulled over on the side of the road. He later died in the hospital from injuries sustained from the accident.
  14 Dec 2019: (Waukegan, IL) E-4 died in a multiple vehicle accident after a head-on collision.
  08 Dec 2019: (Gulfport, MS) E-4 died after losing control of the motorcycle on a patch of gravel. The other service member on second motorcycle was released with minor injuries.
  02 Dec 2019: (San Diego, CA) O-4 died after being struck by a vehicle while jogging.
  01 Dec 2019: (Saint Marys, GA) E-8 died after being struck by a vehicle while walking along the roadway.
  06 Nov 2019: (San Diego, CA) E-7 died in a single-vehicle motorcycle mishap.
  27 Oct 2019: (Mobile, AL) E-6 died from injuries after automobile struck a tree. He died from his injuries on 30 Oct 2019 in a hospital.
  20 Oct 2019: (Twentynine Palms, CA) E-4 died in a multi-vehicle mishap (other vehicle fatality recorded in Marine stats).
  05 Oct 2019: (Sinajana, Guam) E-5 was found down with motorcycle alongside a roadway with no other vehicles. Transported to Guam Memorial Hospital and pronounced dead.

- **USN OFF-DUTY/RECREATIONAL FATALITIES**
  11 Jan 2020: (Agana, Guam) E-4 was found unconscious while snorkeling. Declared deceased at Naval Hospital Guam.
  01 Jan 2020: (Goose Creek, SC) E-3 died from injuries sustained in a single-vehicle off-road accident.
  22 Nov 2019: (Odenton, MD) E-4 died after being found unresponsive by roommate.
  20 Oct 2019: (Glen Burnie, MD) E-4 found unresponsive on his couch after a night of socializing.
Marine Corps Short Narratives

- **USMC AVIATION CLASS A MISHAPS** (includes UAS/UAV, FRMs and AGMs not included in the Flight Slide)
  No mishap this FY.

- **USMC GROUND CLASS A MISHAPS**
  No mishap this FY.

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

- **USMC ON-DUTY MOTOR VEHICLE CLASS A MISHAPS**
  20 Oct 2019: (Bridgeport, CA) E-2 died in a M1151 HMMWV Enhanced Armament Carrier mishap at Mountain Warfare Training Center (MWTC) during a training exercise.

- **USMC PRIVATE MOTOR VEHICLE FATALITIES**
  31 Jan 20: (North Charleston, SC) E-1 was involved an automobile mishap. He was transported to a Medical Center where he died from his injuries.
  26 Jan 2020: (Oceanside, CA) E-5 died after being struck by a vehicle while walking alongside the highway.
  14 Jan 2020: (Carlsbad, CA) E-3 died in a multi-vehicle mishap after colliding with another vehicle that was traveling in the opposite direction of traffic.
  12 Jan 2020: (Wichita, KS) E-1 died after being struck by a vehicle while on the side of the road with his broken down motorcycle.
  29 Dec 2019: (Irving, TX) E-3 died on 30 Dec from injuries as passenger in a single-vehicle crash.
  31 Oct 2019: (Burbank, CA) E-4 died in a motorcycle accident after being struck by two vehicles.
  28 Oct 2019: (Murrieta, CA) E-6 involved in a fatal traffic multi-vehicle accident.
  20 Oct 2019: (Twentynine Palms, CA) E-2 passenger died in a multi-vehicle mishap (other vehicle fatality recorded in Navy stats).
Marine Corps Short Narratives (continued)

- **USMC PRIVATE MOTOR VEHICLE FATALITIES (Con’t)**
  11 Oct 2019: (Beaufort, SC) E-4 died after being struck by a vehicle after pulling over to assist another vehicle.
  10 Oct 2010: (Plum Branch, SC) E-4 driver and E-3 passenger died in a single vehicle accident.
  09 Oct 2019: (Escondido, CA) E-5 was involved in a motorcycle accident. He died on 15 Oct 2019 at a medical center.
  05 Oct 2019: (Jacksonville, NC) E-6 died in a motorcycle accident after driving over a raised curb and striking a post.

- **USMC OFF-DUTY/RECREATIONAL FATALITIES**
  No mishap this FY.
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).