



# USHST

## United States Helicopter Safety Team



### Monthly Safety Report

### March 2023

The USHST is a regional partner to the Vertical Aviation Safety Team (VAST).

**USHST GOAL:** Reduce the 5 year average fatal US helicopter accident rate to **0.55 fatal** accidents per 100K hrs by **2025**

**USHST Vision:** A Civil Helicopter Community with Zero **Fatal** Accidents

**Safety by the Numbers!**

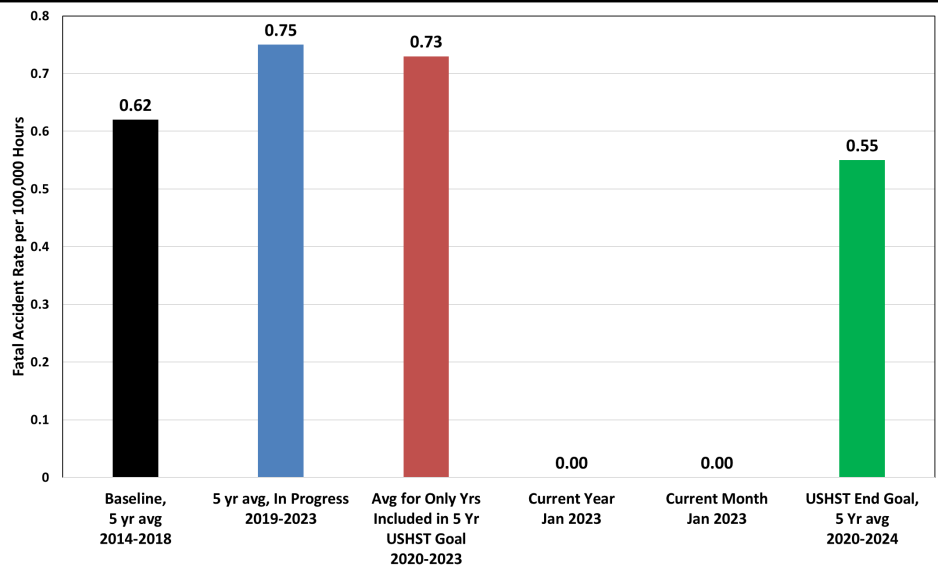
Metric	2019 - 2023	2018 - 2022
Avg <b>Fatal</b> Acc Rate	<b>0.75</b>	<b>0.78</b>
Avg Accident Rate	4.15	4.21
Year To Date	Current Year (CY23)	Previous Year (CY22)
<b>Fatal</b> Accidents	0	1
Accidents	2	4
Fatalities	0	2

### Average number of days between fatal accidents:

- 2018: 14 days
- 2019: 16 days
- 2020: 18 days
- 2021: 17 days
- 2022: 21 days

### Longest time between fatal accidents (past 5 yrs):

**107 days (2020)**



### Fatal Accident Counter

**70 : 01 : 09 : 56**  
Days : Hours : Mins : Secs

Each year the U.S. helicopter industry safely flies approx. 3 million flight hours and **every** second of **every** flight must be handled with professionalism.



## Did "YOU" Know?

In the US there are **12,000 +** helicopters, **32,000 +** helicopter pilots and over **292,000** aircraft mechanics!

The USHST has identified the following industries for **OUTREACH**:

**Personal/Private,  
Helicopter Air Ambulance (HAA),  
Commercial and Aerial Application**

Your participation in joining our vision of zero fatal accidents is important to us. To determine how your interests best align with active USHST efforts, please click the link below to complete the form and submit.

## JOIN/FOLLOW USHST



[USHST Facebook \(2566 Members, 8 New\)](#)

[USHST LinkedIn](#)

[USHST Twitter](#)



### Helicopter Safety OUTREACH events:

- Next USHST All Hands Webinar - **TBD**  
[Previous All Hands](#) - November 14, 2022
- [ROTOR Helicopter Association International - Upcoming Events](#)
- [Helicopter Safety Alliance - Upcoming Events](#)



Safety Enhancement Quick List



**U.S. Helicopter Safety Team**

**Helicopter – Safety Enhancements**  
Our Vision: A civil helicopter community with zero fatal accidents

### [Loss of Control - Inflight \(LOC-I\), Unintended Flight into IMC \(UIMC\), Low Altitude Operations \(LALT\).](#)

USHST continues to work on the implementation of 16 Helicopter - Safety Enhancements (H-SE) developed through data-driven analysis of 104 fatal accidents. The H-SE's use Outreach, Policy, Technology/Equipment, and Training to reduce fatal accidents in these categories.

#### [H-SE 81: Simulators and Outside-the-Envelope Flight Conditions](#)

Provide recommendations for mathematical/physics-based models for helicopter flight dynamics to achieve more realistic, higher-fidelity simulations of outside-the-envelope flight conditions. Current models are not accurate at edge-of-the-envelope and outside-of-the-envelope flight regimes. This may lead to unrealistic training of maneuvers such as loss of tail rotor effectiveness, vortex ring state/settling with power, and autorotations and a negative transfer of training when similar situations are encountered during actual flight.

1. FAA, industry, and academia to review existing helicopter simulator/physics-based models and conduct research/testing to develop recommendations regarding improved helicopter mathematical/physics-based models.
2. FAA AFS-200/AFS-800 to update advisory circulars AC120-45A and AC-61-136A (or create helicopter-specific variants) based on recommendations to facilitate use of improved fidelity helicopter flight dynamics models in helicopter simulators.
3. USHST Outreach Team to conduct outreach to simulator and flight training device manufacturers regarding recommendations for higher-fidelity mathematical models.

[Improve Simulator Modeling for Outside-the-Envelope Flight Conditions: Output Report](#)

**USHST PRIORITY Safety Resources:**

[Videos](#)

[Safety Apps](#)

[USHST Report on Safety Enhancements](#)

### **US Helicopter Safety Team Press Release (March 2023):**

**[USHST names Chris Baur as its next industry Co-Chair](#)**



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