



USHST

United States Helicopter Safety Team



Monthly Safety Report

January 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!

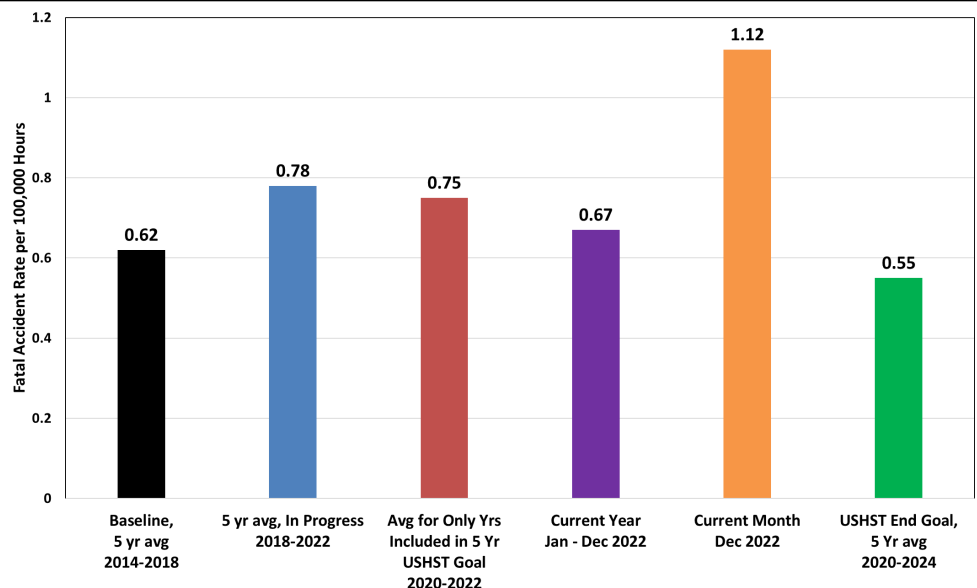
Metric	2018 - 2022	2017 - 2021
Avg Fatal Acc Rate	0.78	0.76
Avg Accident Rate	4.21	4.00
Year To Date	Current Year (CY22)	Previous Year (CY21)
Fatal Accidents	18	22
Accidents	128	117
Fatalities	32	42

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

44 : 02 : 16 : 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



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[USHST LinkedIn](#)

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Helicopter Safety OUTREACH events:

- Next USHST All Hands Webinar - **February 23, 2023, 1pm EST** [Register Today!](#)
[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 124: Understanding of Basic Helicopter Aerodynamics](#)

FAA and industry to review and revise materials explaining basic helicopter aerodynamics to emphasize recognition of unsafe aerodynamic situations and apply appropriate corrective actions.

1. FAA and industry to review the Helicopter Flying Handbook (FAA-H-8083-21A) and Helicopter Instructor's Handbook (FAA-H-8083-4) and pertinent Advisory Circulars to assess explanations of unsafe aerodynamic situations and provide recommendations for revisions.
2. FAA to revise the Helicopter Flying Handbook and Helicopter Instructor's Handbook and pertinent Advisory Circulars concerning unsafe aerodynamic situations, to include vortex ring state, low G mast bumping, and low RPM rotor stall guidance.
3. FAA to issue advisory circular on the Vuichard Recovery Technique from vortex ring state.
4. FAA to revise AC 61-83, as amended (Nationally Scheduled, FAA-Approved, Industry-Conducted Flight Instructor Refresher Course) to add critical helicopter aerodynamics to the core topic list.
5. USHST SEA Training Team to develop presentations/promotional materials regarding identification of and response to vortex ring state, low RPM rotor stall, and low G mast bumping for use by the training community.

USHST PRIORITY Safety Resources:

[Videos](#)

[Safety Apps](#)

[USHST Report on Safety Enhancements](#)

US Helicopter Safety Team Press Release (November 2022):

[USHST Searching for Next Industry Co-Chair!](#)



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