



AOPA AIR SAFETY INSTITUTE
LOSS OF CONTROL
EDUCATION AND OUTREACH

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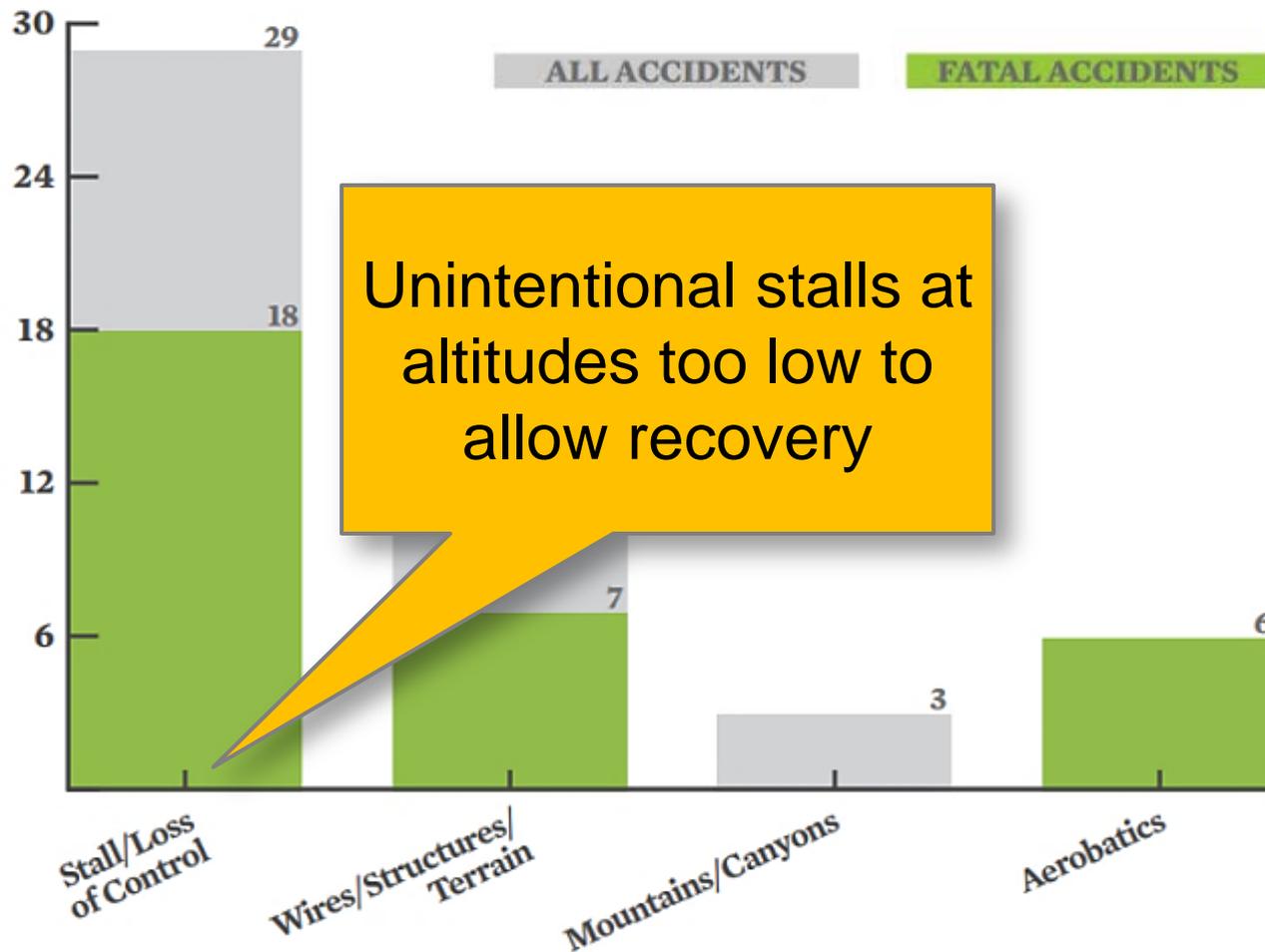


- Established in 1950
- World's largest and most trusted source of safety education for general aviation (GA)
- Over 2,000,000 touches in 2014
 - 38 online courses
 - 71 safety videos
 - 70 safety quizzes
 - 200 seminars nationwide (two topics)
 - Numerous publications
 - Engaging audience on YouTube and Facebook
- Library Growing Every Year!

The Bad News – LOC 40% fatal Accidents



Figure 34: Types of Maneuvering Accidents

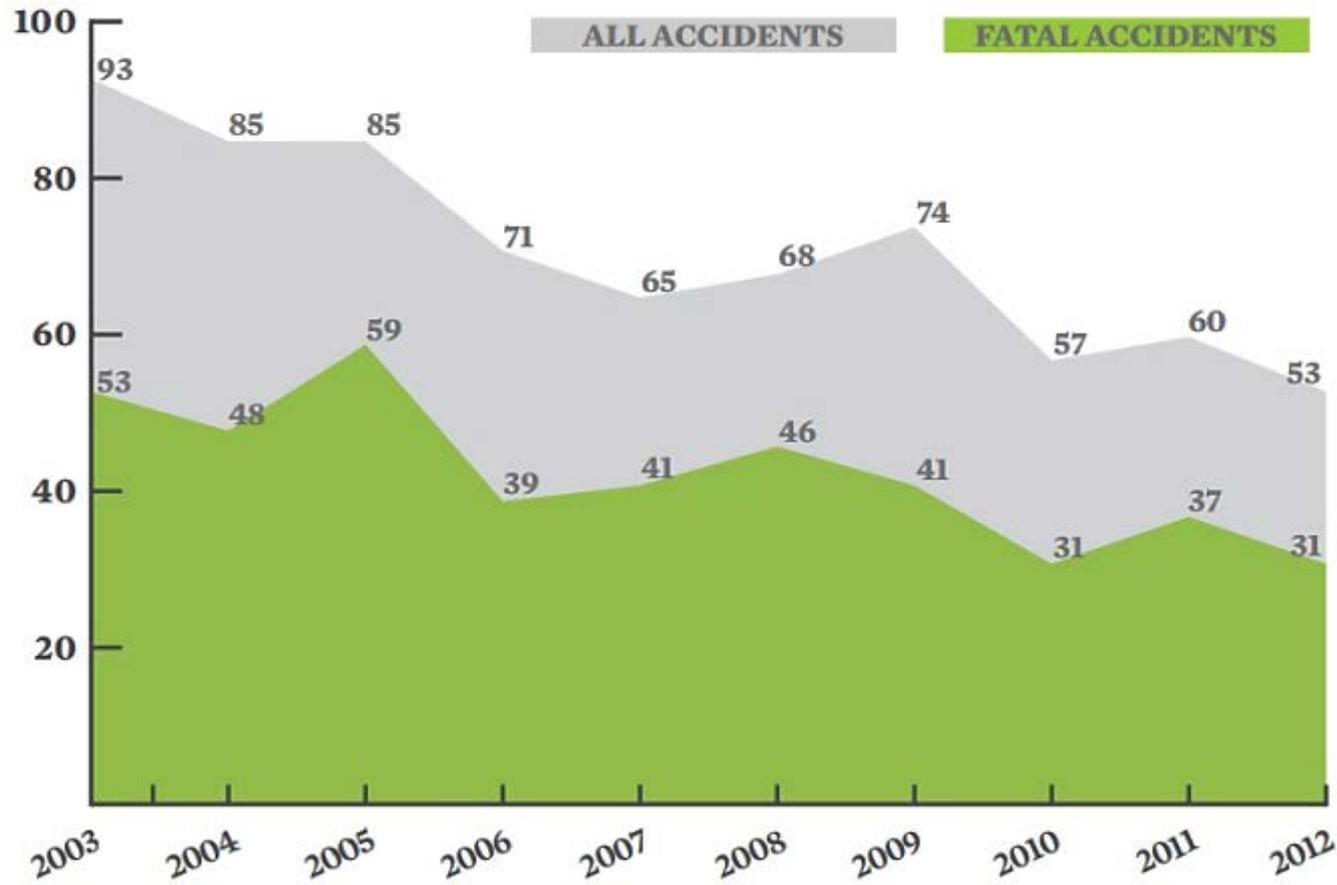


Source: 24th Joseph T. Nall Report

The Trend is Good, But.....



Figure 33: Maneuvering Accident Trend



Source: 24th Joseph T. Nall Report



Education and Outreach

- Free online course
- 60,000 completions since 2008
- Soon to be iPad-compatible

An interactive course brought to you by the AOPA Air Safety Institute. Optimized for Tablet Computers

ESSENTIAL AERODYNAMICS
Stalls, Spins and Safety

Who said aerodynamics has to be hard to understand?
The word may conjure images of dry textbooks and dense equations, but the need-to-know concepts of aerodynamics and maneuvering flight can be easy to grasp.

ENABLE SOUND for the best experience

BEGIN COURSE

Note: This course is intended as a non-technical review of basic aerodynamic principles as they relate to certain flight maneuvers. Although we've made every effort to be technically accurate, users should be aware that some concepts have been simplified in the interest of accessibility and succinctness.

Produced with the generous support of the Aviation Education Foundation and [pilot donors](#) like you.

Satisfactory completion of this course qualifies toward [AOPA Accident Forgiveness](#) and [FAA WINGS](#).

AOA Indicators Safety Video



Margins of Safety: Angle of Attack Indicators

M A R G I N S O F S A F E T Y

ANGLE OF ATTACK
INDICATORS

A diagram on a chalkboard background showing a horizontal line representing the wing chord and an angled line representing the wing leading edge. An arc between the two lines indicates the angle of attack. The text "ANGLE OF ATTACK" is written along the angled line, and "INDICATORS" is written below the horizontal line.

0:06 / 5:38

The video player interface includes a progress bar at the bottom, a play button, a skip forward button, a skip backward button, and a volume icon. The AOPA logo is also visible in the bottom right corner of the video frame.



- Maneuvering Flight Video Series
 - Power-On Stalls (fall 2015)
 - Power-Off Stalls, Traffic Patterns, Approach and Landing (2016)
 - Accelerated Stalls (2016)

What Works to Prevent LOC



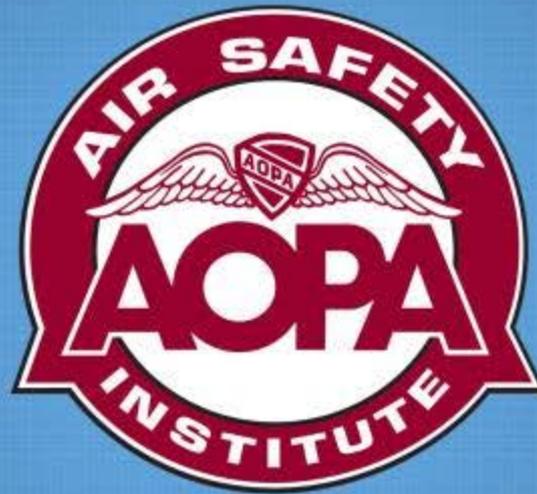
- Technology works
- AOA Indicators – With Alerting
 - Stick Shakers
- Autopilots with Envelope Protection
 - AHRS Driven Sensors Command Auto Pilot
- Simulator Based Training
 - Practice infrequent / High Risk Maneuvers (Go-Arounds)

Training Has Not Evolved



- Pilot Training is Stuck in the 1970's
 - PPL PTS – AoA is mentioned 1 time in a 119 page document
 - AoA and Critical AoA are not concepts required to be taught
 - Stabilized Approach mentioned 1 time in a 119 page document
 - Box Pattern sets pilots up for failure.
 - Circular pattern as an alternative

Thank You!



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