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EAA FOUNDER and AVIATION LEGEND



EAA Advocacy and Safety

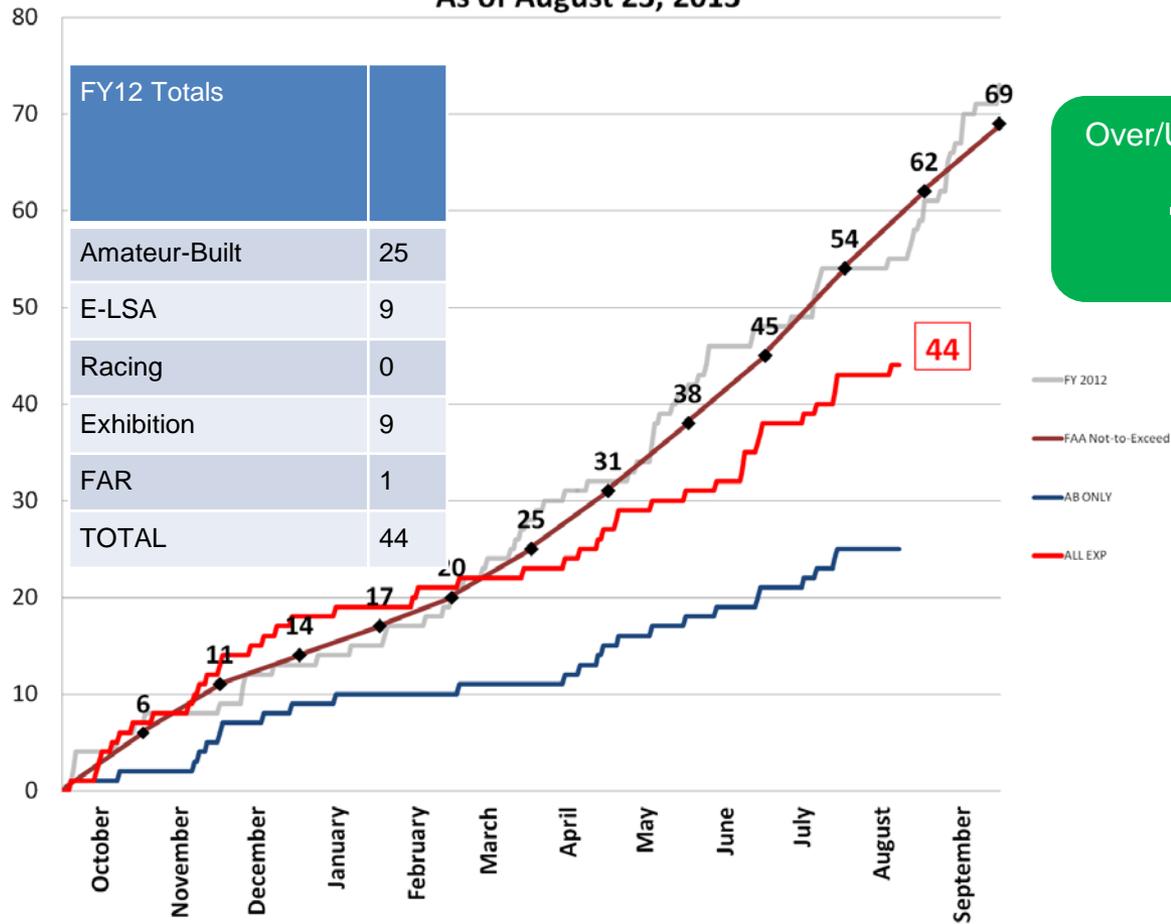
Experimental-Amateur Built Aircraft Safety: Continuous Improvement





EAA Experimental Aircraft Fatal Accident Dashboard

FY2013 Experimental Safety Performance
 Number of Experimental Fatal Accidents
 As of August 23, 2013



FY12 Totals	
Amateur-Built	25
E-LSA	9
Racing	0
Exhibition	9
FAR	1
TOTAL	44

Over/Under for Year
-16



NTSB E-AB Study

NTSB Study released 5/22/12 analyzed 224 E-AB accidents and found the following:

- E-AB accounts for a disproportionate number of the total accidents, and an even more disproportionate number of fatal accidents
- Powerplant failure and loss of control (LOC) are the most common causes
- Accidents tend to occur:
 - Early in the operational life of the aircraft
 - Within the first hours flown by a new owner (non-builder)



NTSB E-AB Study

The NTSB made 12 recommendations to the FAA

Among these:

- Require fuel system functional (flow) test
- Require FAA-approved flight test plan, develop aircraft flight manual/emergency procedures
- Identify when a second pilot may assist in flight testing
- Promote transition training by streamlining the LODA process allowing flight instruction in E-AB
- Work with kit manufacturers, type clubs, and pilots to incentivize transition training programs



NTSB E-AB Study

The NTSB also made four recommendations specifically to EAA:

- Encourage/incentivize test pilots to complete flight test training
- Work with members/industry to facilitate the use of electronic data recording in flight testing
- Publish repository of LODA holders for instruction in E-AB
- Work with manufacturers, type clubs, and members to develop resources for and promote effective transition training



EAA's Role

EAA continues to develop innovative programs to enhance E-AB safety *without new regulation*

- We are involving the Homebuilders Advisory Council, the Type Club Coalition, and our members to find ways to improve safety and bolster participation in the homebuilding movement

In addition, EAA has four longstanding programs that work to promote E-AB safety:

- Technical Counselors – work one-on-one with the builder to help craft a well-built and airworthy airplane
- Flight Advisors – assist test pilots, new owners, and prospective builders/buyers in flight safety
- EAA Webinars – Disseminate safety and tech. knowledge online
- SportAir Workshops – help builders with basic skills

Type Club Coalition – Unite the knowledge bases of builders and owners to develop best practices for safety



What Can I Do?

**Ultimately, the safety of
aviation rests in all of
our hands**

So What Can We All Do?



What Can I Do?

- Early flight testing carries elevated risk - be smart about it!
 - Aircraft and human factors
- Consult with an EAA Flight Advisor.
- Obtain best transition training available.
- Consider having a more experienced pilot handle the first test flight(s).



“...They were called test pilots – and no one knew their names.”



What Can I Do?

- Use Phase I to understand the performance and limitations of your aircraft. Develop a thorough POH from these results.
- Read and understand your Operating Limitations, particularly regarding modifications to the aircraft after Phase I.
- When selling a homebuilt aircraft, take a moment educate the buyer on the importance of transition training.
- *As always, practice good ADM!*



What Can I Do?

Creating a culture of safety

- Make safety a priority in your airport community (EAA Chapter, Pilot Association, Flying Club, Hangarmates, etc...).
- Encourage other pilots and builders to follow recommended practice.
- If you notice an unsafe activity in your community, address it.
- Keep flying fun and social - plan group activities that build proficiency.
 - Go flying! There is no better way to stay proficient.



What Can I Do?

Fly Often, Fly Safe!



EAA Resources

- Homebuilders
 - www.eaa.org/homebuilders
 - Listing of Flight Advisors and Tech Counselors
 - Hints for Homebuilders
 - Report to Homebuilders
- Membership Services
 - 800-JOIN-EAA (800-564-6322)
 - Information on EAA Membership, technical advice
- Advocacy and Safety
 - www.eaa.org/government
 - Tom Charpentier and Jonathan Harger
- Advocacy and Safety
 - www.eaa.org/government
 - 920-426-6522
 - Tom Charpentier and Jonathan Harger, Government Advocacy Specialists
 - Listing of LODA holders
 - Aeromedical Counseling
 - Information on advocacy efforts
- Webinars
 - www.eaa.org/webinars
 - Weekly programming on a wide range of topics