



Experimental Aircraft Accident Analysis

The attached data was taken from the E.A.A. Sport Aviation Magazine,
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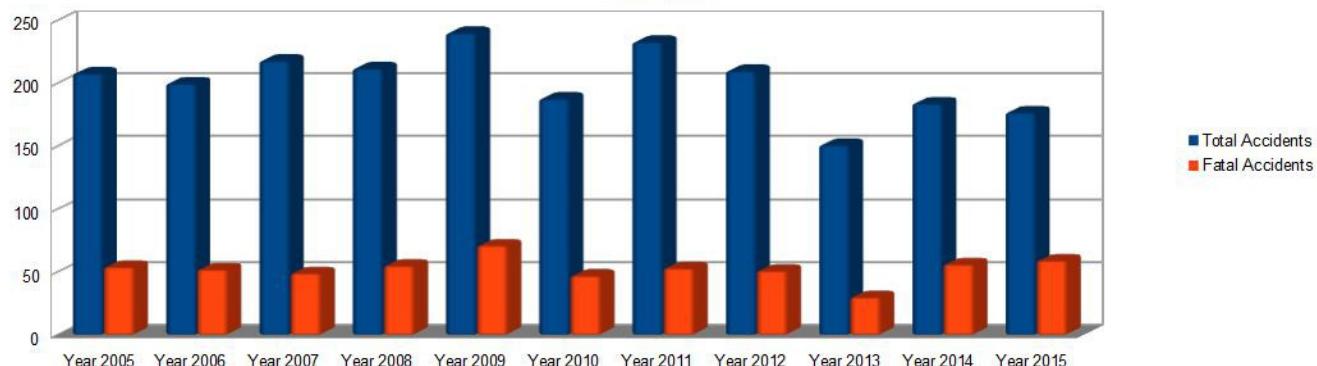
This data represents the leading causes and factors involving experimental aircraft and is intended for use concerning flight safety awareness and accident prevention for pilots of fixed wing ultralight & experimental airplanes.

By: UltralightPilots.org
4/7/2017

Experimental Aircraft Accident Analysis Report:

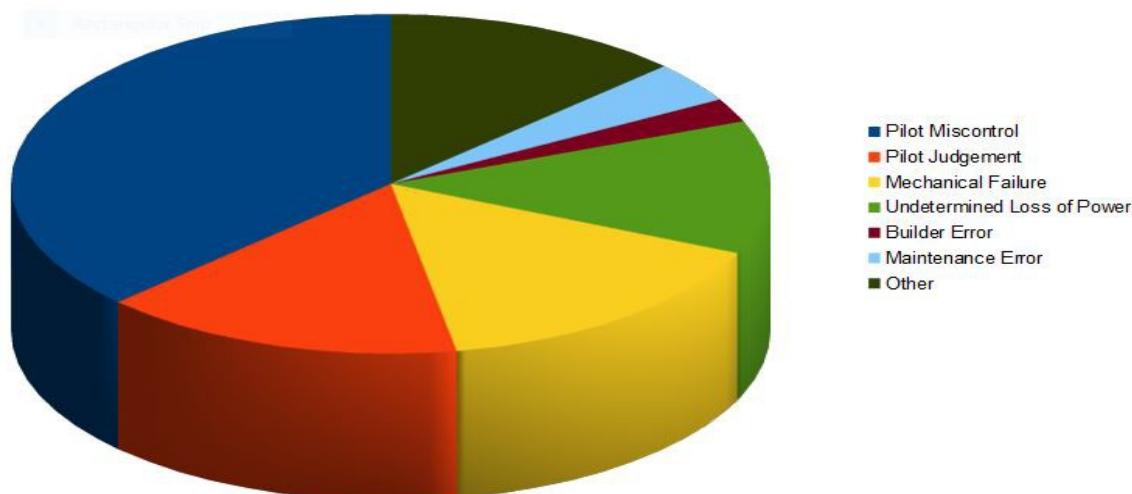
Experimental / Amateur Built Aircraft Accidents

Years 2005 to 2015



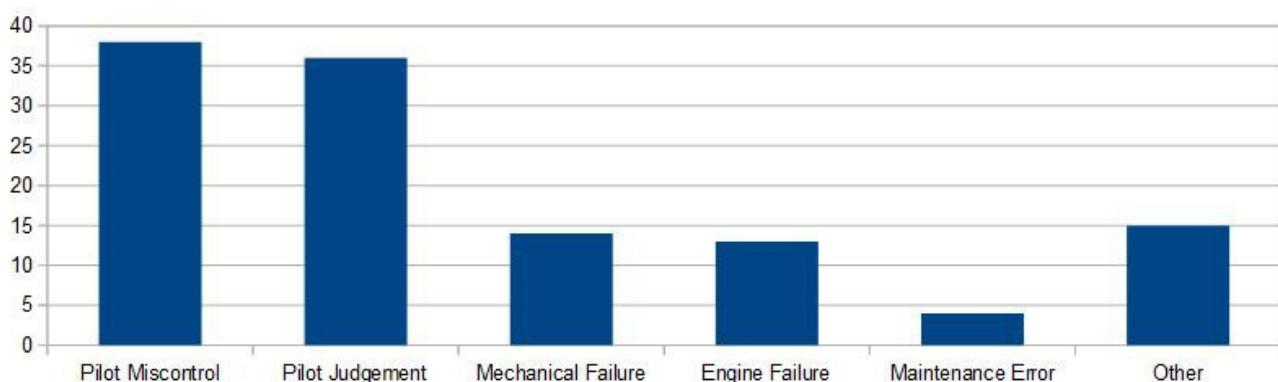
Experimental / Amateur Built Aircraft Accidents

Year 2015

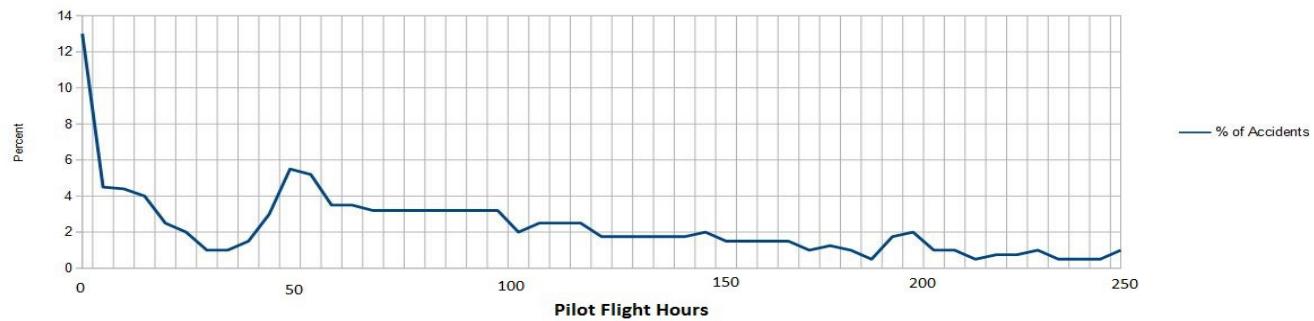


% Distribution of Accident Causes

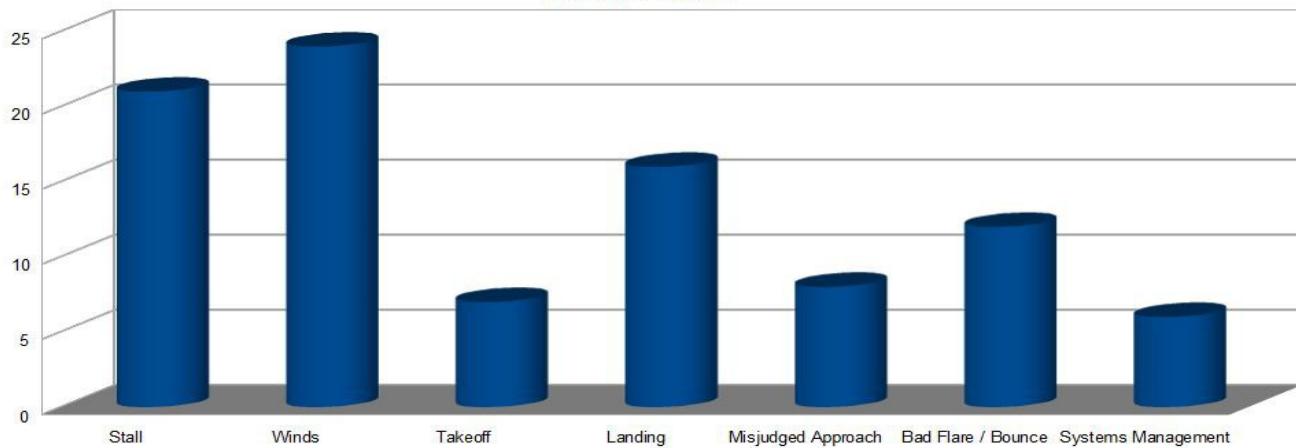
Year 2015



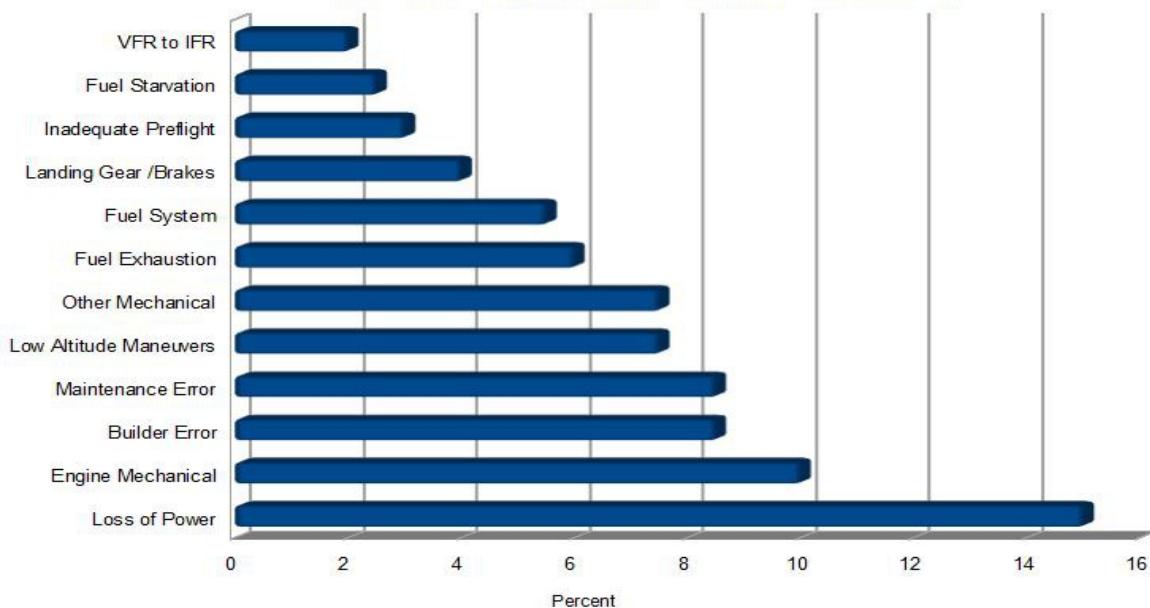
% of Accidents per Pilots Flight Hour Experience



% of Major Causes of Experimental / Amateur Built Aircraft Accidents:
PILOT MISCONTROL



Other Factors Relating to Experimental Aircraft Accidents



Conclusion:

It should be noted that 25% of experimental accidents result in the fatality of the pilot.

The first ten hours after soloing is critical. Probabilities of an accidents will drop significantly from 12% to 4.5% after the first ten hours of flight time. The accident rate increases after 50 hours flight time to 100 hours, then drops afterwards.

Pilot miscontrol & misjudgment is the major factor, 54 % of experimental aircraft accidents. Of the pilot miscontrol accidents, the two main factors are primarily caused by stalls – 21% & wind conditions – 22% . Undetermined loss of power is another significant factor of accidents.

Engine mechanical, fuel systems, and other mechanical failures cause approximately 26 % of accidents.