Monthly Safety Briefing

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"The majority of aircraft accidents are due to some type of error of the pilot. This fact has been true in the past and, unfortunately, most probably will be true in the future.

— Hugh Harrison Hurt, Jr., in the preface of his book Aerodynamics For Naval Aviators, NAVWEPS 00-80T-80, August 1959.

Tonight's Safety Topic

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Amateur-Built Condition Inspections

– Check EAA website for further info https://www.eaa.org/eaa/news-andpublications/eaa-webinars

• Aircraft Performance

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- Density Altitude will regularly exceed 4000' at Falcon in the summer (temp >92°F) and can exceed 5000' (>110°F).
- Remember, it's <u>runway</u> temperature that counts, not the reported shade temp!
- DA at FLG can easily exceed the service ceiling of some aircraft. 80°F @FLG = 10000' DA. 85°F @PAN = 8300' DA.
- Remember that POH charts are very optimistic.
 For an older airplane & engine, you might <u>2X</u> the distances. Remember to LEAN!

Engine Limitations

- Air-cooled engines depend on the ΔT between the cylinders and oil cooler, and the outside air.
- Watch for CHT and oil temperature limits. Also, watch for low oil pressures at idle.
- Climb at higher airspeeds, with reduced throttle and richer-than-normal mixtures. High CHTs reduced detonation margins.
- Avoid long delays on the ground. Especially avoid medium length (~1 hour) ground stops, as this is the time for peak engine temps.

On the Ramp

- Ramp temperatures can easily exceed shade temps by 25°F or more.
- Pre-flight in the shade!
- Stay well hydrated!
- Always wear a light-colored hat.
- Damp clothing (including cooling towels) and damp head gear can really help cool <u>you</u> off (but won't do anything for the engine!).

• Quickie Summer Survival Tips

- WATER is the primary concern in the desert. Carry water in the plane. 1 Gal = 8#. Sun-screen and a wide brimmed hat are great.
- Use ADS-B and maybe a satellite tracker like SPOT. There are <u>lots</u> of areas in Arizona without cell phone coverage.
- Stay near your plane, but in a shaded area, unless you <u>know</u> where you are and <u>know</u> you can get safely to civilization. Searchers will be looking for your plane, not you!
- Avoid low areas that could be subject to flash flooding during the monsoon.