TLAR One-Pager

"TLAR" is an iOS app, developed by Owyhee Aviation LLC, that runs on iPhone and iPad running iOS 14.3 or higher (latest version 17.5.1)

- Compatible iPhones: SE (2nd gen and higher), and all models of iPhone 10 thru 15
- Compatible iPads: cellular models required (GPS): iPad Pro 12.9" (3rd gen and higher), iPad Pro 11" (all gens), iPad Mini (5th gen and higher), iPad Air (3rd gen and higher), iPad (8th gen and higher)

TLAR computes aircraft takeoff, climb, cruise, and landing performance for 33 different general aviation aircraft (Aero L39, Bonanza A36, Cessna 152, 170B, 172M, 172N, 172S, 180K, 182P, A185F, Cirrus SR20, SR22, SR22T, Cub Crafters FX-2, FX-3, Diamond DA-40-180, Glasair Sportsman, Glasair Glastar, Harmon Rocket II, Kitfox 7 Series SS, 7 Series STI, Mooney M20F, Piper J3, PA18, PA22-150, PA28-140, PA28-181, Vans RV4, RV-7, RV-8, RV-10, RV-14). We continue to add more. For now, if you have a different plane, choose one that is close. TLAR allows you to adjust the horsepower, weight, and drag of each aircraft type, to fine-tune to your specific configuration (big tires, different motor etc).

Stop guessing. We benchmarked TLAR's performance against each aircraft's published performance. In general, TLAR is ~95%+ accurate, in many cases it is spot-on. The exact accuracies for each aircraft are in the TLAR manual, which you can download at www.tlarpilot.com. TLAR will give you an accurate performance estimate that "Looks About Right" and (TLAR-pro/expert) uses GPS groundspeed on final to compute landing distance.

There are three versions. The basic version is free. The pro version is $2/mo. TLAR-Expert is $4/mo.

- The **basic version** is an aircraft performance calculator. You choose the aircraft type, enter its weight, and enter the weather and it computes no-wind performance for a level, paved surface

- The **pro version** is dynamic and re-computes performance each second based on changing weather (which it will auto-download), aircraft position, altitude, speed, runway surface, slope etc. It also has a global airfield database, moving map displays, the ability to create, survey, save, and share your own airstrips, send situation reports, it will monitor your approach stability and warn you if taking off or landing could be hazardous…and a lot more.

- The **expert version** adds patent-pending emergency glide functionality and telemetry recording. It will tell you where and how high you will be when your aircraft will be capable of conducting an engine windmilling turnback to the runway on takeoff or in cruise. During takeoff and climb it will show you your current wind-corrected glide footprint and announce on headset your latest abort point, when a turnback is possible and show you the route of flight back to the runway along with your predicted altitude when reaching the runway.

Owyhee Aviation LLC is a veteran-owned start-up company. We are small but punch above our weight! We are passionate about aircraft performance and value your feedback! This is a journey. Jeff Brown, owner and CEO, is an Air Force Academy graduate who majored in Computer Science. He flew C-130s and retired in 2015 after 25 years in the Air Force.

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