



#### Aircraft Overview:

The T-41 began service with the Air Force in 1968 as a screening aircraft for Undergraduate Pilot Training. The high-wing, all aluminum aircraft flew at USAFA and Hondo, TX. The C and D model T-41s were specifically flown at USAFA. These two models were equipped with a 210hp Continental engine which was required for the high altitude of USAFA. The last T-41C departed USAFA in 1995 when the Air Force introduced the T-3A Firefly. USAFA's few T-41Ds remained for flying team support and as a laboratory for aerodynamics and military sciences courses. In 2008, the T-41D was used primarily to support the fledgling Powered Flight Program. Currently, the four remaining T-41Ds support flying team operations and are used as an aerodynamics course laboratory.

#### Specifications:

- **Primary Function:** USAFA Flying Team Support / Aerodynamics Laboratory
- **Length:** 26 ft 5 in
- **Height:** 8 ft 10 in
- **Wingspan:** 36 ft 2 in
- **Maximum Takeoff Weight:** 2550 lbs
- **Max Speed:** 158 knots indicated airspeed
- **Ceiling:** 14,000 ft MSL (limited by regulation)
- **Max Positive G Limit:** 4.4 (Utility category)
- **Max Negative G Limit:** 1.76 (at maneuvering airspeed)
- **Range:** 630 NM
- **Armament:** None
- **Crew:** Two (student pilot and instructor pilot)
- **Date Deployed:** 1968
- **Inventory:** 4



#### Aircraft Overview:

The T-51

#### Specifications:

- **Primary Function:** USAFA Flying Team
- **Length:** 23 ft 11 in
- **Height:** 8 ft 6 in
- **Wingspan:** 33 ft 4 in
- **Maximum Takeoff Weight:** 1760 lbs
- **Max Speed:** 141 knots indicated airspeed
- **Ceiling:** 12,500 ft MSL
- **Max Positive G Limit:** 3.8
- **Max Negative G Limit:** 1.52 (at maneuvering airspeed)
- **Range:** 450 NM
- **Armament:** None
- **Crew:** Two (student pilot and instructor pilot)
- **Date Deployed:** 1982
- **Inventory:** 3



#### Aircraft Overview:

The Diamond T-52A is the newest addition to the 557 FTS. It is primarily used for cadet flight training for USAFA's AM-420 Powered Flight Program. The four-seat, 180hp T-52A is equipped with state-of-the-art technology to include Garmin G1000 integrated avionics panel, Traffic Advisory System, dual GPS, and 406 MHz ELT. Constructed from glass-fiber reinforced plastic, the aircraft is very light yet strong. The absence of rivets and support structures reduce aerodynamic drag and fuel consumption.

#### Specifications:

- **Primary Function:** Introductory Flight Training
- **Length:** 26 ft 3 in
- **Height:** 6 ft 6 in
- **Wingspan:** 39 ft 2 in
- **Maximum Takeoff Weight:** 2646 lbs
- **Max Speed:** 178 knots indicated airspeed
- **Ceiling:** 14,000 ft MSL (limited by regulation)
- **Max Positive G Limit:** 4.4 (Utility category)
- **Max Negative G Limit:** 1.76 (at maneuvering airspeed)
- **Range:** 785 NM
- **Armament:** None
- **Crew:** Two (student pilot and instructor pilot)
- **Date Deployed:** 2009
- **Inventory:** 20