

**AIRPLANE QUESTIONNAIRE
KENTUCKY WING**

Cessna 182T/ Nav III

1. Approved fuel grades and colors are: 100 (Green) 100LL (Blue)
2. Location/capacity of each fuel tank is: Wings (One Ea.) 46 Gallons Ea. (43.5 Usable)
3. Total usable fuel under all flight conditions is 87 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is 5.8 hours.
5. What make and grade oil is used? Winter - Aeroshell 15W50 Summer - Aeroshell 15W50 (Per CAP Spec)
6. Oil capacity is 9 quarts. Minimum oil quantity for takeoff is 4 quarts.
7. Minimum oil pressure is 20 psi. Maximum oil pressure is 115 psi.
8. Maximum oil temperature is 245 degrees (F or C) F
9. Magnetos are checked at 1800 RPM. RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are 2400 and Full Throttle in/Hg.
11. Maximum gross takeoff weight is 3100 pounds. Empty weight is 2054 pounds.
Useful load is 1046 pounds. Maximum landing weight is 2950 pounds.
12. Baggage compartment locations/weights are: Rear – Area: A-120Lbs. B-80Lbs C-80Lbs (200Lbs Max)
13. Give the IAS at maximum gross weight for:
 - a. Va (maneuvering speed) 110 KIAS
 - b. Vso (stall, landing config, power off) 41 KIAS
 - c. Vs1 (stall, cruise config, power off) 51 KIAS
 - d. Vy (best rate of climb, sea level) 80 KIAS
 - e. Vx (best angle of climb, sea level) 65 KIAS
 - f. Vmc (minimum control speed - multi-engine only) N/A
 - g. Best glide speed 76 KIAS
14. Give the immediate action/memory items for:
 - a. Engine failure immediately after takeoff:
75 KIAS (Flaps Up) 70 KIAS (Flaps Down) / Mixture Idle Cutoff / Fuel Selector Off / Ignition Off / Flaps As Required / Stby Batt Switch Off / Master Off / Unlatch Cabin Doors / Land Straight Ahead (+/- 30° L or R)
 - b. Fire during cranking and engine fails to start:
Throttle Full Open / Mixture Idle Cutoff / Cont Cranking
Fuel Sel Off / Aux Fuel Pump Off / Ignition Off / Stby Batt Switch Off / Master Switch Off / Refer to Checklist
 - c. Engine fire in flight:
Mixture Idle Cutoff / Fuel Selector Off / Aux Fuel Pump Off / Stby Batt Switch Off / Master Off / Refer to Checklist
 - d. Electrical fire in flight:
Stby Batt Switch Off / Master Off / Vents, Cabin Air & Heat Closed / Activate Fire Extinguisher / Refer to Checklist

15. Normal takeoff flap setting is 10° (preferred), short field takeoff setting is 20°, and soft field takeoff flap setting is 20°.
16. Maximum demonstrated takeoff/landing crosswind component is 15 knots.
17. Given: PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.
Find: Total takeoff distance to clear a 50-foot obstacle 2264 Ft.
18. Given: PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.
Find: Total landing distance to clear a 50-foot obstacle 1615 Ft.
19. Landing runway 22; wind 190° at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? No (15 Knots.)