

**AIRPLANE QUESTIONNAIRE
KENTUCKY WING
Cessna 172R/180 HP**

1. Approved fuel grades and colors are: 100 (Green) 100LL (Blue)
2. Location/capacity of each fuel tank is: Wings (One Ea.) 28 Gallons Ea. (26.5 Usable)
3. Total usable fuel under all flight conditions is 53 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 1-hour reserve is 4.25 hours.
5. What make and grade oil is used? Winter – 20W50 Summer – 20W50 (Per CAP Spec)
6. Oil capacity is 8 quarts. Minimum oil quantity for takeoff is 6 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 2700 and NA in/Hg.
11. Maximum gross takeoff weight is 2550 pounds. Empty weight is 1690 pounds.
Useful load is 860 pounds. Maximum landing weight is 2550 pounds.
12. Baggage compartment locations/weights are: 120Lbs Max / 50 Lbs rear
13. Give the IAS at maximum gross weight for:

a. Va (maneuvering speed) 105 KIAS	e. Vx (best angle of climb, sea level) 62 KIAS
b. Vso (stall, landing config, power off) 40 KIAS	f. Vmc (minimum control speed - multi-engine only) _ N/A_
c. Vs1 (stall, cruise config, power off) 48 KIAS	
d. Vy (best rate of climb, sea level) 74 KIAS	g. Best glide speed 68 KIAS
14. Give the immediate action/memory items for:
 - a. Engine failure immediately after takeoff: 70 KIAS (Flaps Up) 65 KIAS (Flaps Down) / Mixture Idle Cutoff / Fuel Selector Off / Ignition Off / Flaps As Req./ 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 Shutoff Valve OFF / Aux Fuel Pump OFF / Refer to Checklist
 - c. Engine fire in flight: Mixture Idle Cutoff / Fuel Shutoff Valve OFF / Aux Fuel Pump OFF / Master Off / Refer to Checklist
 - d. Electrical fire in flight: Master Off / Vents, Cabin Air & Heat Closed / Activate Fire Extinguisher / Refer to Checklist