

Cessna 172-D Data Sheet

1. Home base airport identifier: OYM
2. Airplane make & model: Cessna 172-D
3. Airplane airspeeds:

<u>V_S 50 MPH</u>	<u>V_{FE} 100 MPH</u>
<u>V_{SO} 40 MPH</u>	<u>V_A 122 MPH</u>
<u>V_R 60 MPH</u>	<u>V_{NE} 174 MPH</u>
<u>V_X 65 MPH</u>	Best glide: <u>70-80 Flaps Up</u>
<u>V_Y 85 MPH</u>	<u>65-75 MPH Flaps Down</u>
4. Maximum gross weight: 2,300 lbs.
5. Empty weight: 1,383.2 lbs.
6. Useful Load: 916.8 lbs.
7. Usable Fuel capacity: Gal: 39 Lb. 234
Octane: 80, Red
8. Oil capacity: Maximum: 8 qt.
Minimum to operate: 6 qt.
9. Maximum pilot, passenger, and baggage weight possible with full fuel: 675 lbs.
10. Compute the CG with yourself (solo) and full fuel:

	Weight	Arm	Moment
You:	<u>170</u>		<u>6.1</u>
Full fuel:	<u>234</u>		<u>11.2</u>
Airplane:	<u>1,383.2</u>		<u>51.49</u>
Total	<u>1,787.2</u>		<u>68.79</u>

Is the CG within limits? Y N
11. Takeoff distance (full fuel), zero wind, with you and your CFI: (2,000 lbs. total)

Temperature:	<u>50° F</u>
Ground roll:	<u>755 ft.</u>
Distance over 50 Ft. obstacle:	<u>1,325 ft.</u>
12. Landing distance (3/4 fuel), zero wind, with you and your CFI:

Temperature:	<u>50° F</u>
Ground roll:	<u>485 ft.</u>
Distance over 50-ft. obstacle:	<u>1,195 ft.</u>
13. List 4 most-used radio frequencies:

Station	AWOS	CTAF	APC	RCO
<u>OYM</u>	<u>118.05</u>	<u>122.7</u>	<u>124.325</u>	<u>121.3</u>
<u>BFD</u>	<u>133.825</u>	<u>123.075</u>	<u>124.325</u>	<u>122.2</u>
<u>DUJ</u>	<u>119.025</u>	<u>123.0</u>	<u>126.72</u>	<u>122.2</u>

Flight Speeds:

Rotate: VR - 60 MPH IAS
 Climb: VY - 80-90 MPH IAS
VX - 65 MPH IAS

Cruise Climb: 80-90 MPH IAS

Before Landing: 70 to 80 MPH IAS
 Flaps Down : 65 to 75 MPH IAS

Stall Speeds

V_{so}: 40 MPH IAS
V_s: 50 MPH IAS

Flight Load Factors

Normal Category

2,300 lbs. - Flaps Up: +3.8 G to -1.52 G
 - Flaps Down: +3.5 G

Utility Category

2,000 lbs. - Flaps Up: +4.4 G to -1.76 G
 - Flaps Down: +3.5 G

Note: Rear seat & baggage compartment must be **EMPTY**.

The operator is responsible to determine that the aircraft remains within safe weight and balance limits. Refer to Weight and Balance Data Sheet, Loading Schedule and Center of Gravity Chart for proper loading.