

Piper PA 28-181 Data Sheet

Home base airport identifier: OYM

Airplane make & model: PA 28-181

Airplane airspeeds:

<u>V_{SI} 54 KIAS</u>	<u>V_{FE} 102 KIAS</u>
<u>V_{SO} 48 KIAS</u>	<u>V_A 113 KIAS</u>
<u>V_R 52 to 65 KIAS</u>	<u>V_{NE} 154 KIAS</u>
<u>V_X 64 KIAS</u>	<u>Best Glide 76 KIAS</u>
<u>V_Y 76 KIAS</u>	<u>Full Flaps 66 KIAS</u>
<u>V_{NO} 125 KIAS</u>	

Maximum gross weight: 2,550 lbs.

Empty weight: 1,569.3 lbs.

Useful Load: 980.7 lbs.

Fuel capacity: Gal.: 48 **Lb.** 288
Octane: 100LL - Blue

Oil capacity: Maximum: 8 qt.
Minimum to operate: 6 qt.

Maximum pilot, passenger, and baggage weight possible with full fuel: 692 lbs.

Compute the CG with yourself (solo) and full fuel:

	Weight	Arm	Moment
Airplane:	1,569.3	87.44	137,219.6
You:	170	80.5	13,685.0
Full fuel:	<u>288</u>	<u>95.0</u>	<u>27,360.0</u>
Total Aircraft	2,027.3	87.93	178,264.6

Is the CG within limits? Y N

Takeoff distance (full fuel), zero wind, with you and your CFI: (2,222 lbs: total)

Temperature: 50° F
 Ground roll: 800 ft.
 Distance over 50 Ft. obstacle: 1,600 ft.

Landing distance (3/4 fuel), zero wind, with and you and your CFI:

Temperature: 50° F
 Ground roll: 780 ft.
 Distance over 50-ft. obstacle: 1,315 ft.

Flight Speeds

Rotate: V_R - 52 TO 65 KIAS
 Climb: V_Y - 76 KIAS (Best Rate)
 V_X - 64 KIAS (Best Angle)

Cruise Climb - 87 KIAS

Maneuvering Speed - 113 KIAS @ 2,550 Lbs.
 - 89 KIAS @ 1,634 Lbs.

Best Glide Speed Flaps Up - 76 KIAS

Stall Speeds: V_{SO} .48 KIAS (Full Flaps)
 V_{S1} - 54 KIAS (Clean)

Flaps

Max. Extend Speed - 102 KIAS

Flaps Up Glide- 76 KIAS (Best Glide)
 10° - 72 KIAS
 25° - 68 KIAS
 45° - 66 KIAS (Full Flaps)

Max. Crosswind Component: 17 Knots

Flight Load Factors

Normal Category

2,550 lbs., Flaps Up: +3.8 G

Utility Category

1,950 lbs., Flaps Up: +4.4 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.

Most used radio frequencies:

List 4 most-used radio frequencies: *Station*

	<i>AWOS</i>	<i>CTAF</i>	<i>APC</i>	<i>RCO</i>
<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>