

## Weight & Balance Computation

<b>Acft No.</b>	<b>Acft Type</b>	<b>Max Take-Off GW</b>	<b>Max Ldg. Wt.</b>
<b>N737LY</b>	<b>C-172</b>	<b>2300 Lbs.</b>	<b>2300 Lbs.</b>
<b>FWD C.G Limit @ Max GW</b> <b>38.5</b>	<b>AFT C.G Limit</b> <b>47.3</b>	<b>Fuel Wt.</b> <b>6 Lbs/Gal</b>	

<b>ITEM</b>	<b>WEIGHT</b>	<b>X</b>	<b>ARM</b>	<b>=</b>	<b>MOMENT/1000</b>
<b>Licensed Basic Weight</b>	<b>1452.3</b>		<b>39.5</b>		<b>57344.9</b>
Pilot & Front Passenger			<b>37.0</b>		
Rear Seat Passengers			<b>73.0</b>		
<b>Fuel (FULL)</b>			<b>47.9</b>		
Baggage (Area 1)			<b>95.0</b>		
Baggage (Area 2)			<b>123.0</b>		
<b>Total Loaded Airplane</b>					

$$\text{C. G} = \frac{\text{Total Moments}}{\text{Total Weight}} \times 1000 \quad \text{Loaded Aircraft C.G} =$$

**Useful Load: 847.7 Lbs.**