

N8432U - Cessna 172F

Weight and Balance Worksheet

19Feb09

Aircraft / Equipment Type for VFR FAA Flight Plan: **C172/U**

PILOT: _____

FROM: _____

DATE: _____

TO: _____

Instructions For Computing C.G. Range and Weight

- Enter all weights as applicable in the "Weight" column.
- Multiply each weight by its "Arm" and put the result in the "Moment" column.
- Total the Weight and Moment columns.
- Divide Total Moment by Total Weight to determine the C.G. (center of gravity) location.
- **Verify** Total Weight and C.G. fall within the C.G. envelope prior to conducting any flight.

Normal Category (+35.0) to (+47.3) at 1950 lbs. or less
 (+38.5) to (+47.3) at 2300 lbs.

Utility Category (+35.0) to (+40.5) at 1950 lbs. or less
 (+35.5) to (+40.5) at 2000 lbs.

GROSS WEIGHT: 2300 LBS

USEFUL LOAD: 905.6 LBS

TAKEOFF WEIGHT AND BALANCE	Weight (lbs)	x ARM (inches)	= Moment (in-lb)
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Licensed Empty Weight:	1394.4	36.74	51,230
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Pilot & Front Seat Passenger:		36	
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Oil 8 Qts Max, 6 Qts Min (7.5# Gal or 1.875# Qt)	15	-20	-300
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Fuel 39 Gal Full, 36 Gal Useable (6# Gal)		48	
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Rear Seat Passenger(s):		70	
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Baggage Area (Max 120 lbs)		95	
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TAKEOFF TOTALS

TAKEOFF CG (Total Moment ÷ Total Weight)

LANDING WEIGHT AND BALANCE	Weight (lbs)	x ARM (inches)	= Moment (in-lb)
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Total Takeoff Weight and Moment (from above)			
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- Less Takeoff Fuel Weight and Moment (from above)			
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+ Fuel At Landing (6# Gal)		48	
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LANDING TOTALS

LANDING CG (Total Moment ÷ Total Weight)

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