

N8432C - Piper Cherokee PA-28-140
Weight and Balance Worksheet
 Aircraft / Equipment Type for FAA Flight Plan: **P28A/A**

19Feb09

PILOT: _____
DATE: _____

FROM: _____
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.
- No baggage or aft passengers allowed in Utility Category Operation

Normal Category (+84.0) to (+95.9) at 1650 lbs. or less
 (+85.9) to (+95.9) at 1975 lbs.
 (+88.4) to (+95.9) at 2150 lbs.

Utility Category (+84.0) to (+86.5) at 1650 lbs. or less
 (+85.8) to (+86.5) at 1950 lbs.

GROSS WEIGHT: 2150 LBS

USEFUL LOAD: 768.60 LBS

TAKEOFF WEIGHT AND BALANCE	Weight (lbs)	x ARM (inches)	= Moment (in-lb)
Licensed Empty Weight:	1381.4	86.53	119,532.5
Pilot & Front Seat Passenger:		85.5	
Oil 8 Qts Max, (7.5# Gal or 1.875# Qt)	15	32.5	488
Rear Seat OR Baggage Area #1 (Max 200 lbs)		117	
Fuel 50 Gal Max Useable (6# Gal)		95	
Baggage Area #2 (Max 100 lbs)		133.3	

TAKEOFF TOTALS

TAKEOFF CG (Total Moment ÷ Total Weight) =====

LANDING WEIGHT AND BALANCE	Weight (lbs)	x ARM (inches)	= Moment (in-lb)
Total Takeoff Weight and Moment (from above)			
- Less Takeoff Fuel Weight and Moment (from above)			
+ Fuel At Landing (6# Gal)		95	
LANDING TOTALS			

LANDING CG (Total Moment ÷ Total Weight) =====

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Weight and Balance

C. G. RANGE AND WEIGHTS

