

# RV-14 WEIGHT AND BALANCE DATA QUICK REFERENCE

*NOTE: this quick reference chart is NOT a substitute for the complete Weight and Balance information contained in the RV-14 PAP (yet to be released).*

*CAUTION: the Gross Weight is established by the builder, who is considered the manufacturer.*

*CAUTION: The Aerobatic Gross Weight is set by structural limits. AEROBATIC FLIGHT SHOULD NOT BE CONDUCTED AT WEIGHTS GREATER THAN 1900 LBS nor AT CG LOCATIONS OUTSIDE THE AEROBATIC CG LIMIT*

DATUM..... 72 inches forward of the wing leading edge

LIMITS

Design C.G. Range.....18%-29% of wing chord OR 82.08 - 88.24 inches aft of datum.  
 Recommended Gross Weight.....2050 lbs  
 Aerobatic Gross Weight.....1900 lbs  
 Aerobatic Aft CG Limit.....25% of chord OR 86 inches aft of datum

ARMS

Fuel.....81.97 inches aft of datum  
 Pilot & Passenger.....99.83" aft of datum  
 Baggage.....129.48" aft of datum (center of baggage area)

DETERMINING EMPTY CG

*Level the aircraft longitudinally and laterally using the longerons in the cabin area as the level reference. Weigh the airplane with the canopy closed, full oil and the fuel tanks empty. Enter the weights and distances from the datum (arm) in the chart below. Multiply weight by arm to obtain moment. Divide the total moment by the weight to determine the empty CG.*

	Weight	Arm	Moment
Right Wheel			
Left Wheel			
Tail Wheel			
Total			
CG (moment divided by weight)			

