

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	577.5	71.1	41060
Left Wheel	571.5	70.9	40520
Tail Wheel	59.5	255.5	15200
Total	1208.5		96780
CG (moment divided by weight)	80.08		

DATUM

