



N273NF WEIGHT AND BALANCE

N273NF	Weight Pounds (lb)	Arm Inches (in)	Moment lbin.
Empty Aircraft	2,343.00	140.15 (Empty CG)	328,372.00
Pilot and Passenger		143.5	
Rear Passengers		180	
Baggage Area 1		208	
Fuel Tanks		154.9	
Total Weight		Total Moment	

Total Moment ÷ Total Weight = CG

CG =

Instructions:

1. Add the weights of all the things loaded into the aircraft to the empty weight of the aircraft. This gives you your total weight.
2. Calculate the moment of each item loaded into the aircraft. (Weight x Arm)
3. Add the moments together including the moment of the empty aircraft.
4. Divide the total moments by the total weights to calculate your Center of Gravity. (CG)

NOTE:

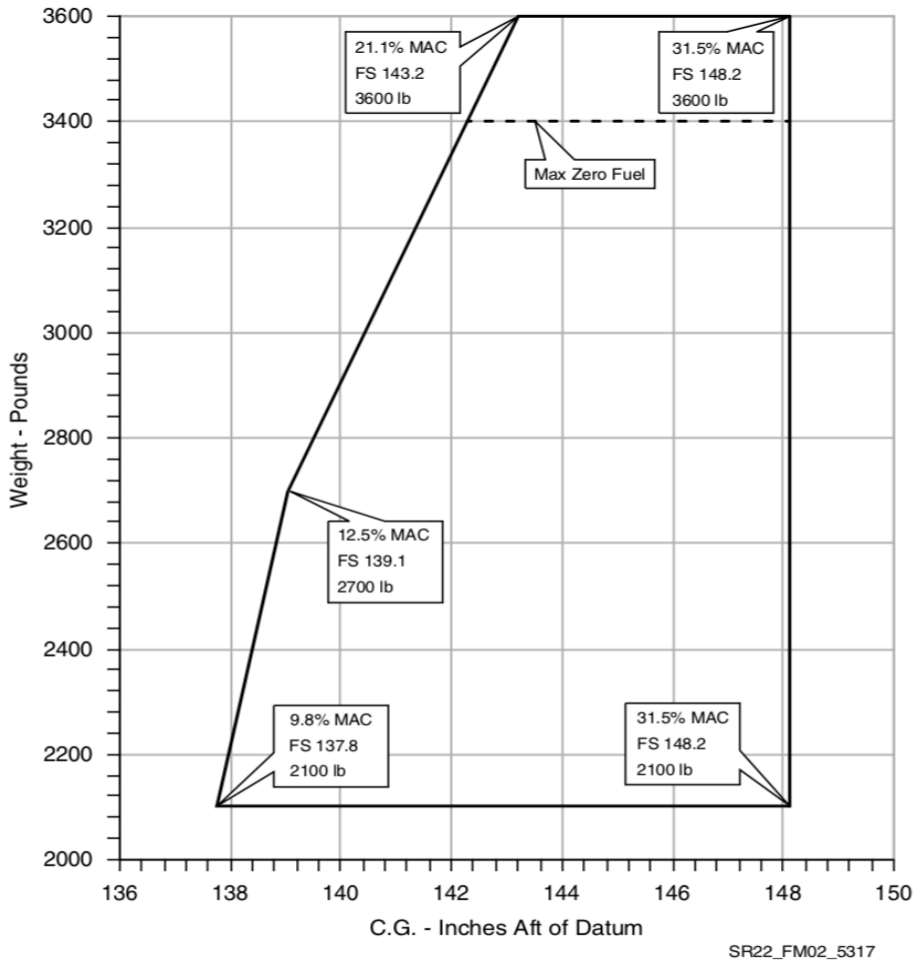
Fuel Weights 6 lbs/gallon

Max Takeoff Weight: 3600 lbs

Max Weight in Baggage Area: 130 lbs

This maximum gross weight of 3600 lbs must be never exceeded!

Figure 2-1: Center of Gravity Envelope



FORWARD LIMIT - The forward limit is FS 137.8 (9.8% MAC) at 2100 lb, with straight line taper to FS 139.1 (12.5% MAC) at 2700 lb, to FS 143.2 (21.1% MAC) at 3600 lb.
AFT LIMIT - The aft limit is FS 148.2 (31.5% MAC) at all weights from 2100 lb to 3600 lb.

Figure 6-4: Moment Limits Chart

