

**Ace Pilot Training  
Weight and Balance Computation  
N10VF C152**

Item	Weight (lbs)	Arm (in.)	Moment (in-lbs)
Licensed Empty Weight	1158.0	29.84	34,552.80
Pilot and Front Passenger		39.00	
Fuel (24.5 Gal. Max at 6 lbs per gallon)		40.00	
Baggage Area 1 (120 lbs. Max)*		64.00	
Baggage Area 2 (40 lbs. Max)*		84.00	
Total Loaded Airplane (1670 lbs. Max)		*****	

\* Combined Baggage Areas 120 lbs. Max

**Instructions For Computing Total Weight and Center of Gravity**

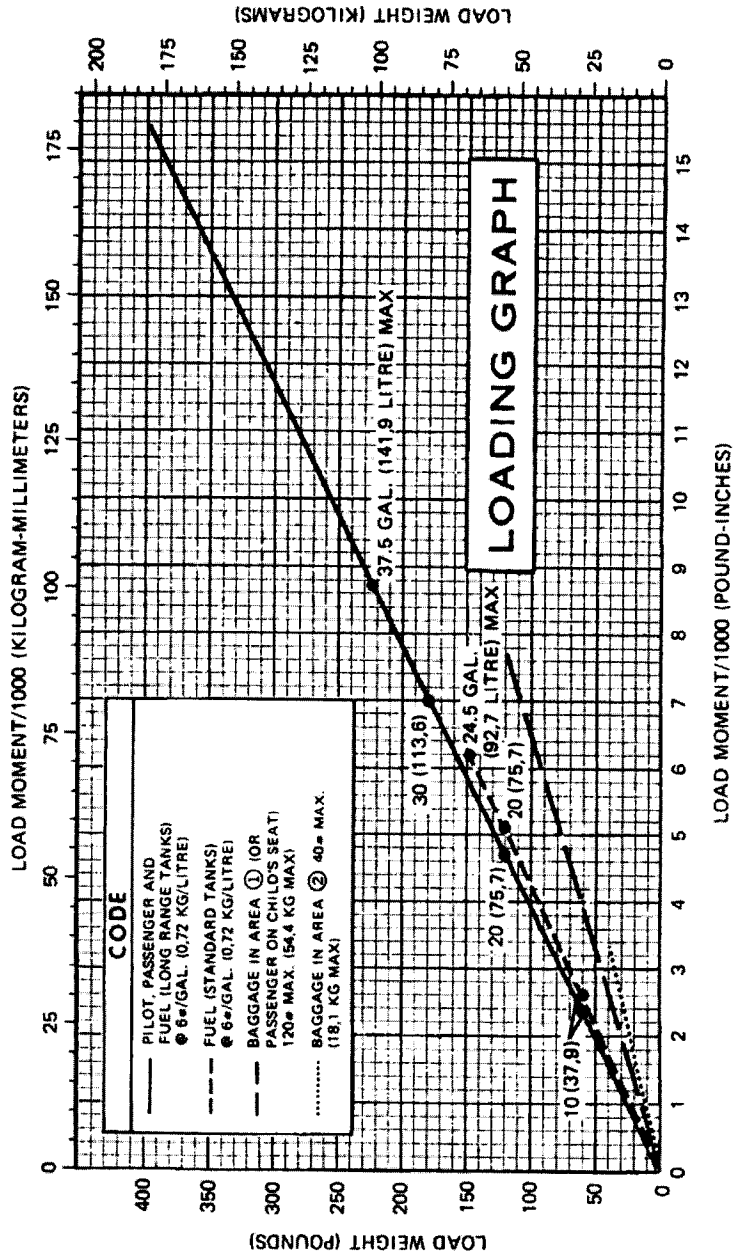
1. Enter all weights as applicable in the "Weight" column
2. Multiply each weight that was entered by its corresponding arm from the "Arm" column and put the result in the "Moment" column.
3. Add all weights to find total weight and fill in below.
4. Add all moments to find total moment.
5. Divide total moments by total weight to find center of gravity (CG) and fill in below.
6. Verify that the total weight and CG fall within the "Weight vs. CG envelope" prior to conducting any flight.

**Total Weight (lbs)**

**Center of Gravity (CG) (in.)**

**SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST**

**CESSNA  
MODEL 152**



**NOTES:** Line representing adjustable seats shows the pilot or passenger center of gravity on adjustable seats positioned for an average occupant. Refer to the Loading Arrangements Diagram for forward and aft limits of occupant C.G. range.

**Figure 6-7. Loading Graph**

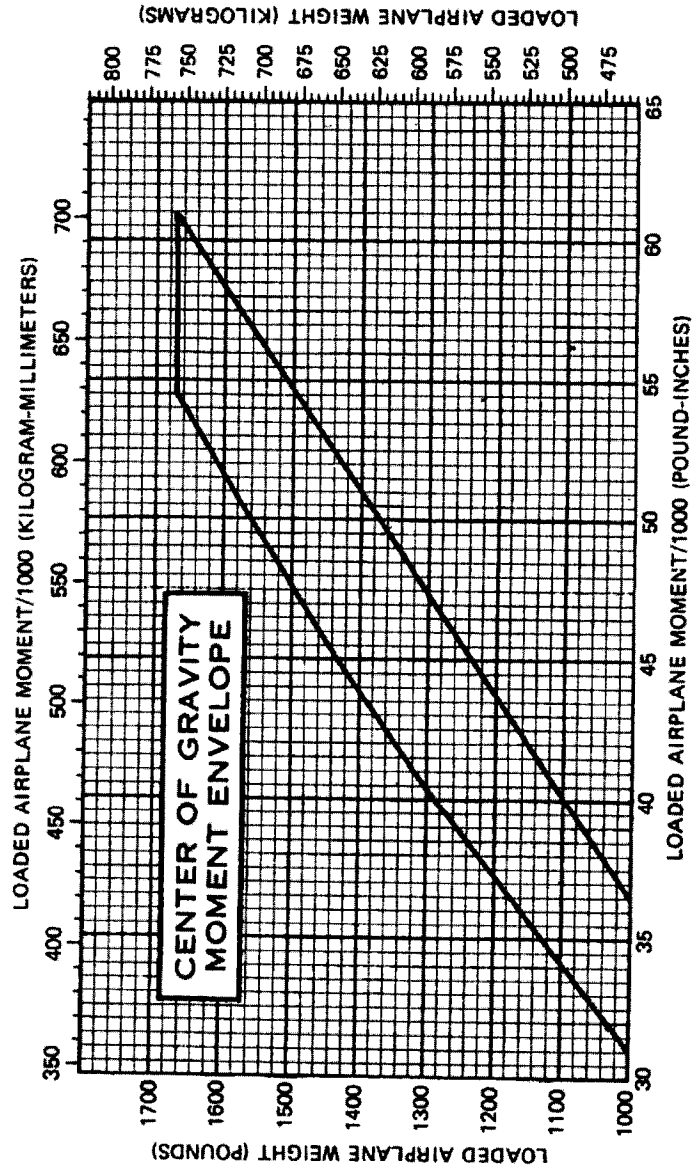


Figure 6-8. Center of Gravity Moment Envelope