Ace Pilot Training Weight and Balance Computation N55264 C172P

ltem	Weight (Ibs)	Arm (in.)	Moment (in-lbs)
Licensed Empty Weight	1508.18	38.7	58,371.13
Pilot and Front Passenger		37.00	
Passengers (Rear Seats)		73.00	
Fuel (40 Gal. Max at 6 lbs per gallon)		48.43	
Baggage Area 1 (120 lbs. Max)		95.00	
Baggage Area 2 (50 lbs. Max)		123.00	
Total Loaded Airplane (2400 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.)



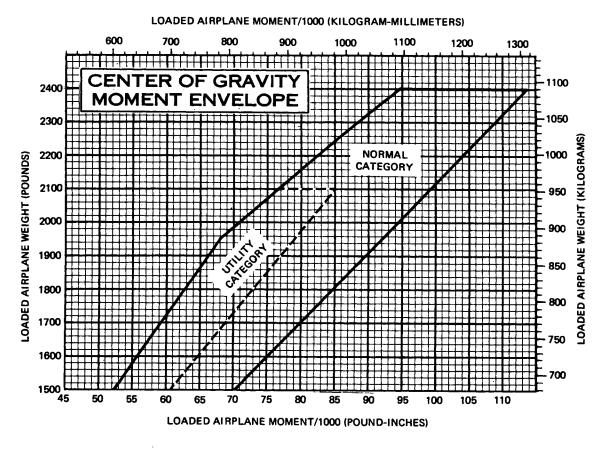
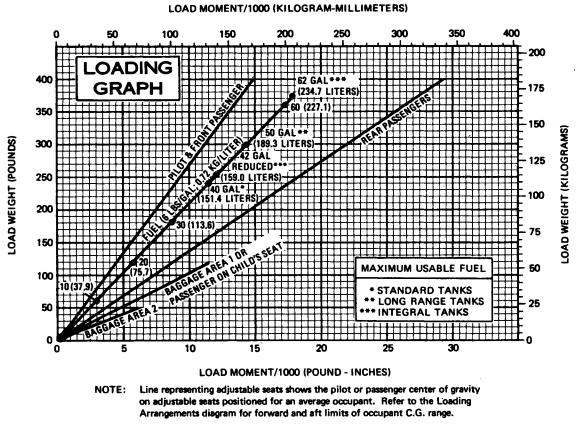


Figure 6-7. Center of Gravity Moment Envelope

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SECTION 6 WEIGHT & BALANCE/ EQUIPMENT LIST



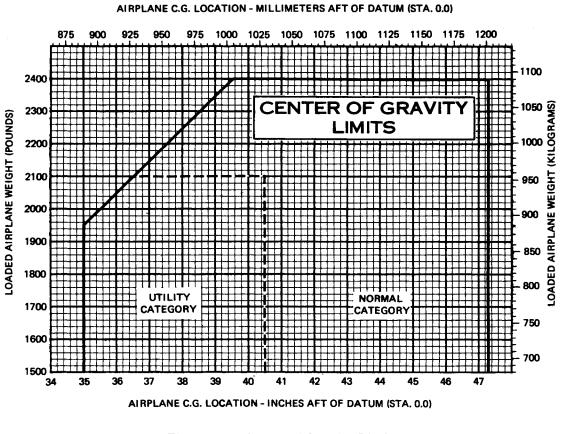


SECTION 6 WEIGHT & BALANCE/ EQUIPMENT LIST

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Figure 6-6. Loading Graph





SECTION 6 WEIGHT & BALANCE/ EQUIPMENT LIST

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