LOADING ARRANGEMENTS

* Pilot or passenger center of gravity on adjustable seats positioned for average occupant. Numbers in parenthesis indicate forward and aft limits of occupant center of gravity range.

** Baggage area center of gravity.

NOTE: The aft baggage wall (approximate station 134) can be used as a convenient interior reference point for determining the location of baggage area fuselage stations.

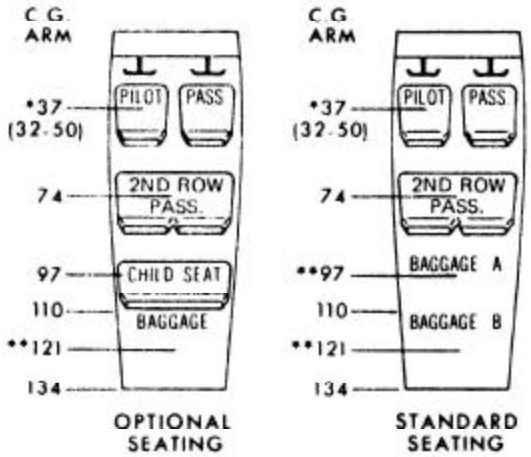
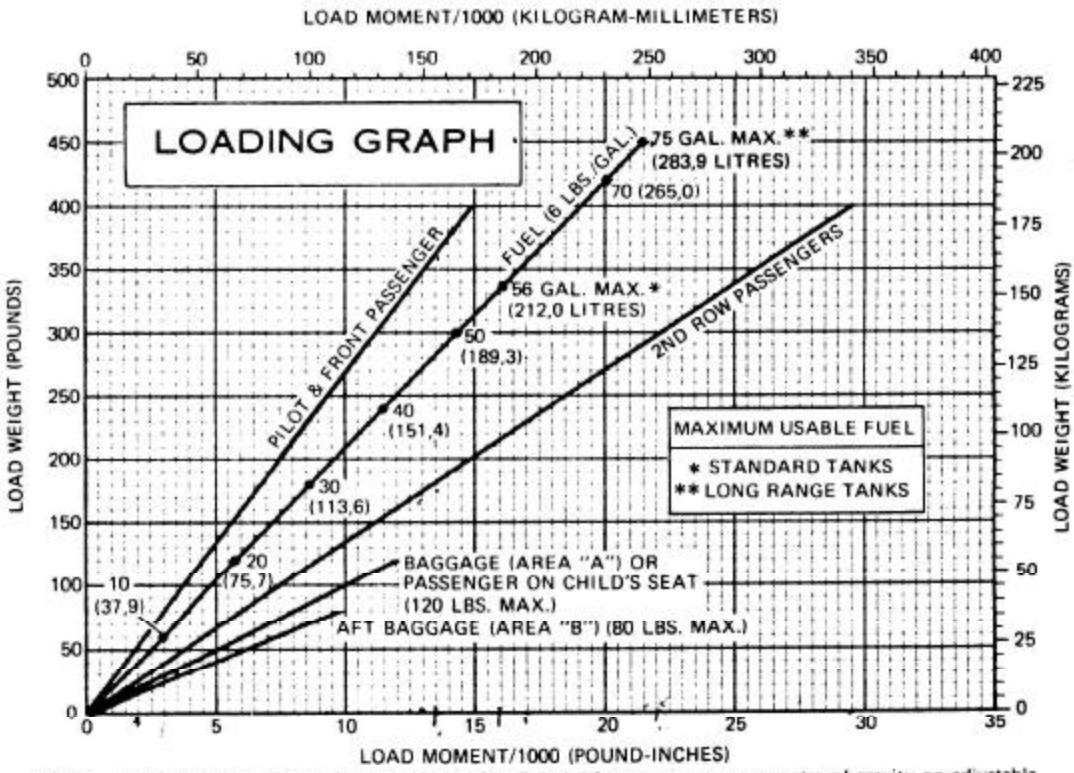


Figure 6-3. Loading Arrangements



NOTE: Line representing adjustable seats shows the pilot and front seat 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 6-6. Loading Graph

SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1808	62.0		
2. Usable Fuel (At 6 Lbs./Gal.)				
Standard Tanks (56 Gal. Maximum)				
Long Range Tanks (75 Gal. Maximum)	450	21.6		
3. Pilot and Front Passenger (Sta. 32 to 50)	340	12.6		
4. Second Row Passengers	340	25.2		
5. Baggage (Area "A") or Passenger on Child's Seat (Station 82 to 110) 120 Lbs. Maximum	120	11.6		
6. Baggage - Aft (Area "B") (Station 110 to 134) 80 Lbs. Maximum	54	6.5		
7. RAMP WEIGHT AND MOMENT	3112	139.5		
8. Fuel allowance for engine start, taxi and runup	-12	-.6		
9. TAKEOFF WEIGHT AND MOMENT (Subtract step 8 from step 7)	3100	138.9		
10. Locate this point (3100 at 138.9) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				

Figure 6-5. Sample Loading Problem

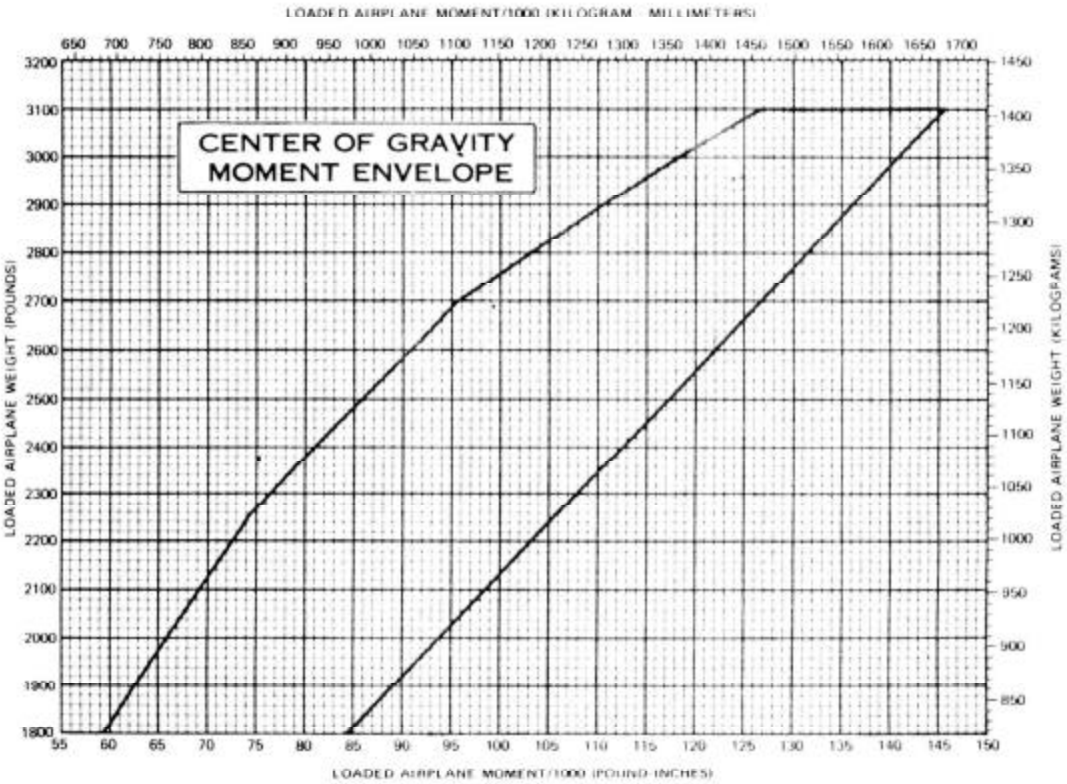


Figure 6-7. Center of Gravity Moment Envelope

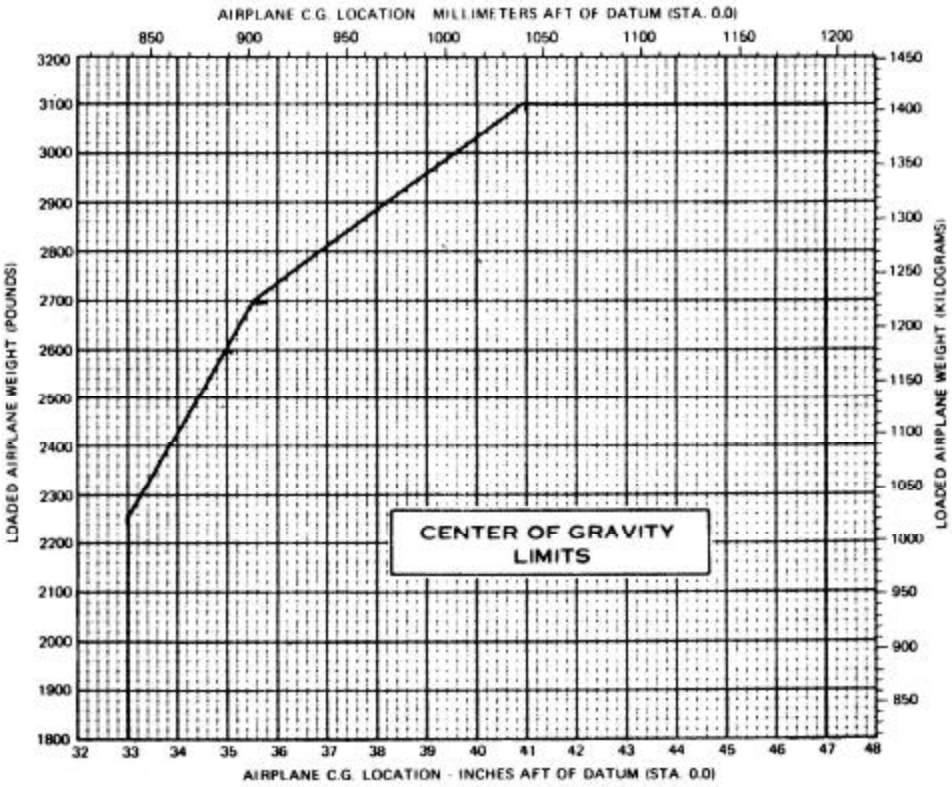


Figure 6-8. Center of Gravity Limits