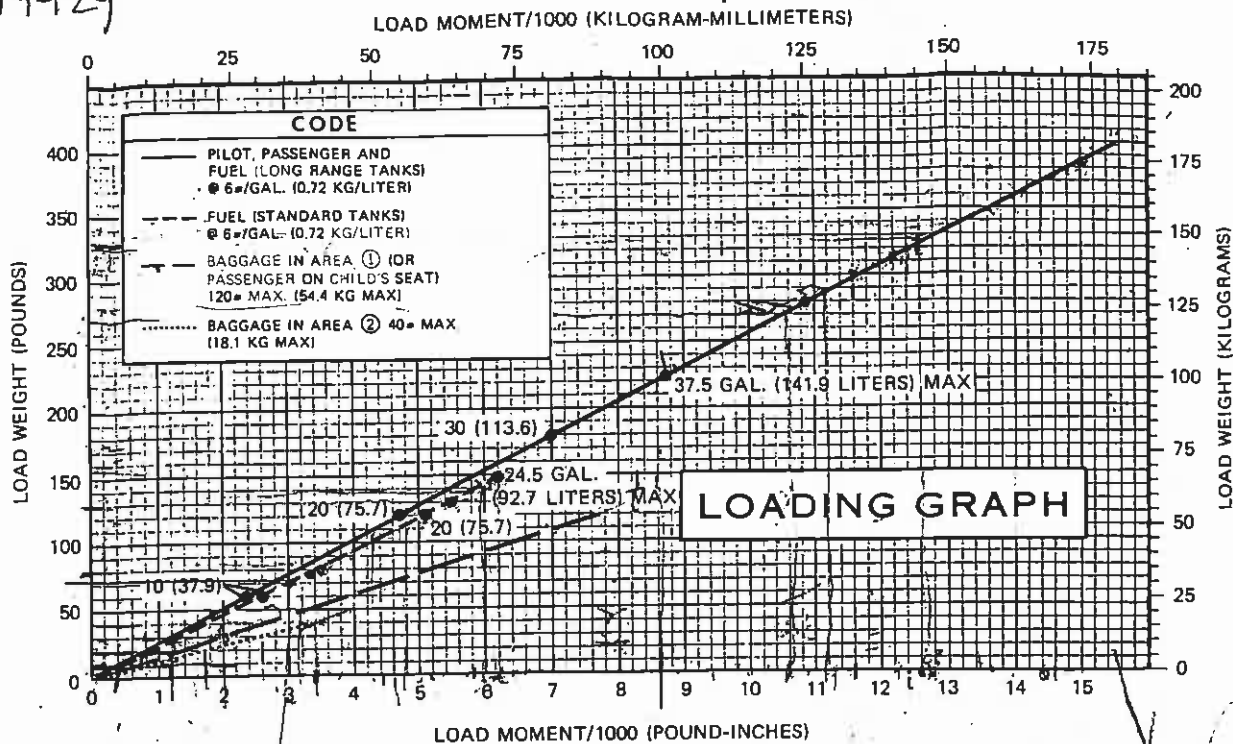


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6-12

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

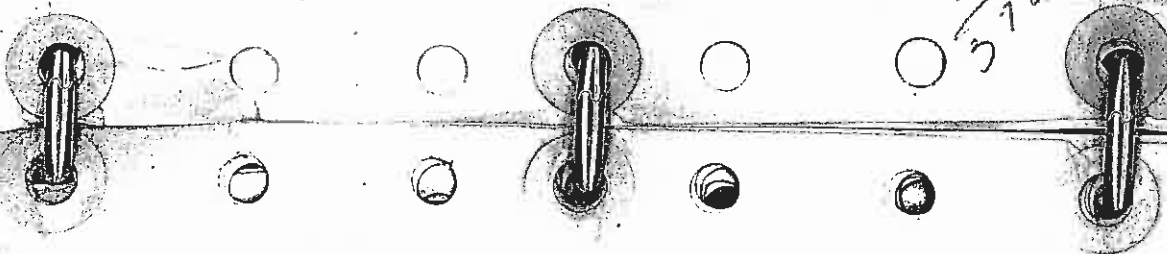


NOTES: Line representing adjustable seats shows the pilot or passenger center of gravity on adjustable seats positioned for an average occupant. Refer to the Loading Arrangements Diagram for forward and aft limits of occupant C.G. range.

Figure 6-7. Loading Graph

CESSNA
MODEL 152

20 April 1982



CESSNA
MODEL 152

20 April 1982

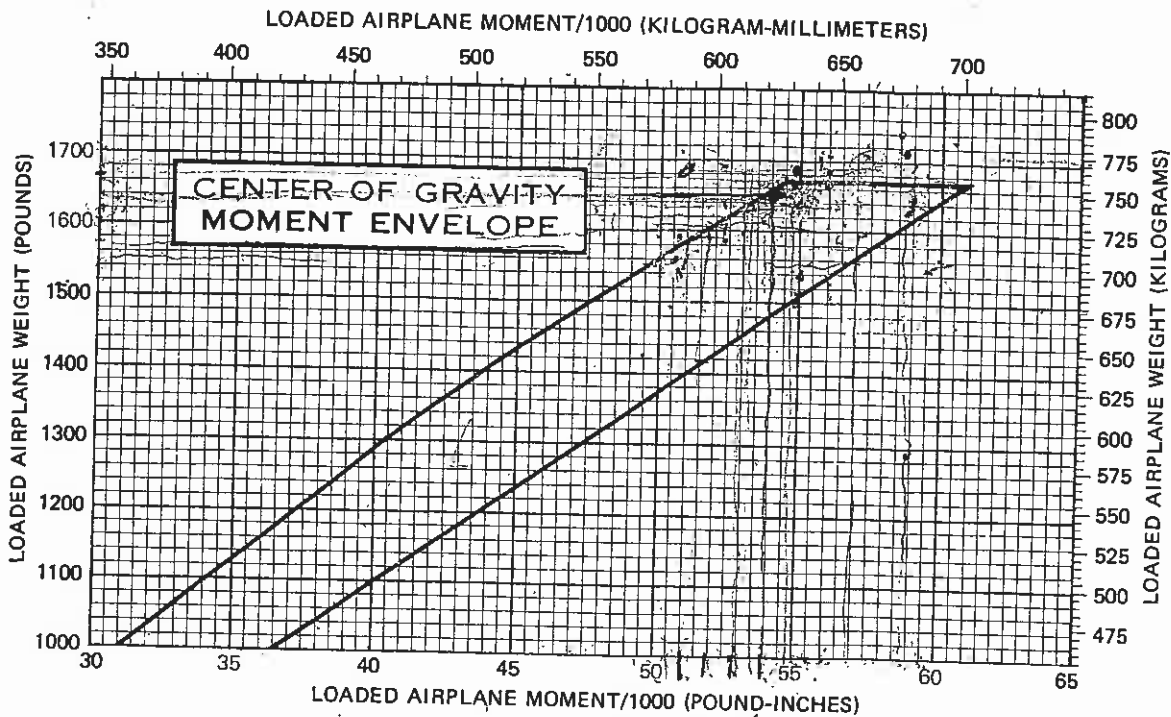


Figure 6-8. Center of Gravity Moment Envelope

SECTION
WEIGHT & BALANCE/
EQUIPMENT L

6-1

SAMPLE AIRPLANE	YOUR AIRPLANE	
	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)	1136	34.0
2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (24.5 Gal. Maximum) Long Range Tanks (37.5 Gal. Maximum) Reduced Fuel (As limited by max. weight)	147	6.2
3. Pilot and Passenger (Station 33 to 41)	340	13.3
4. *Baggage - Area 1 (Or passenger on child's seat) (Station 50 to 76, 120 Lbs. Max.)	52	3.3
5. *Baggage - Area 2 (Station 76 to 94, 40 Lbs. Max.)		
6. RAMP WEIGHT AND MOMENT	1675	56.8
7. Fuel allowance for engine start, taxi, and runup	-5	-.2
8. TAKEOFF WEIGHT AND MOMENT (Subtract Step 7 from Step 6)	1670	56.6
9. Locate this point (1670 at 56.6) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable. *The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 pounds.		

Figure 6-6. Sample Loading Problem (Sheet 1 of 2)

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.

** Arms measured to the center of the areas shown.

- NOTES:
- 1 The usable fuel C.G. arm for standard tanks is located at station 42.0; the C.G. arm for usable fuel in long range tanks is station 39.5
 - 2 The aft baggage wall (approximate station 94) can be used as a convenient interior reference point for determining the location of baggage area fuselage stations.

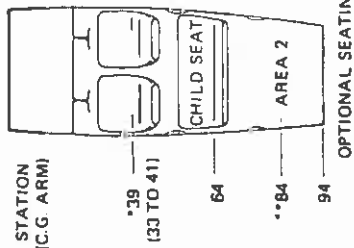
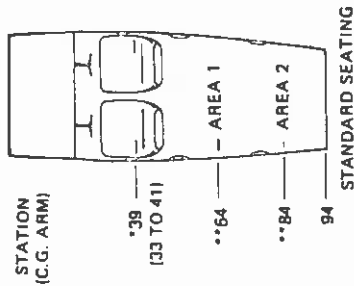


Figure 6-3. Loading Arrangements