

18 April 1980

MAX WT 1675    MAX MOMENT 61    USEFUL LOAD 533

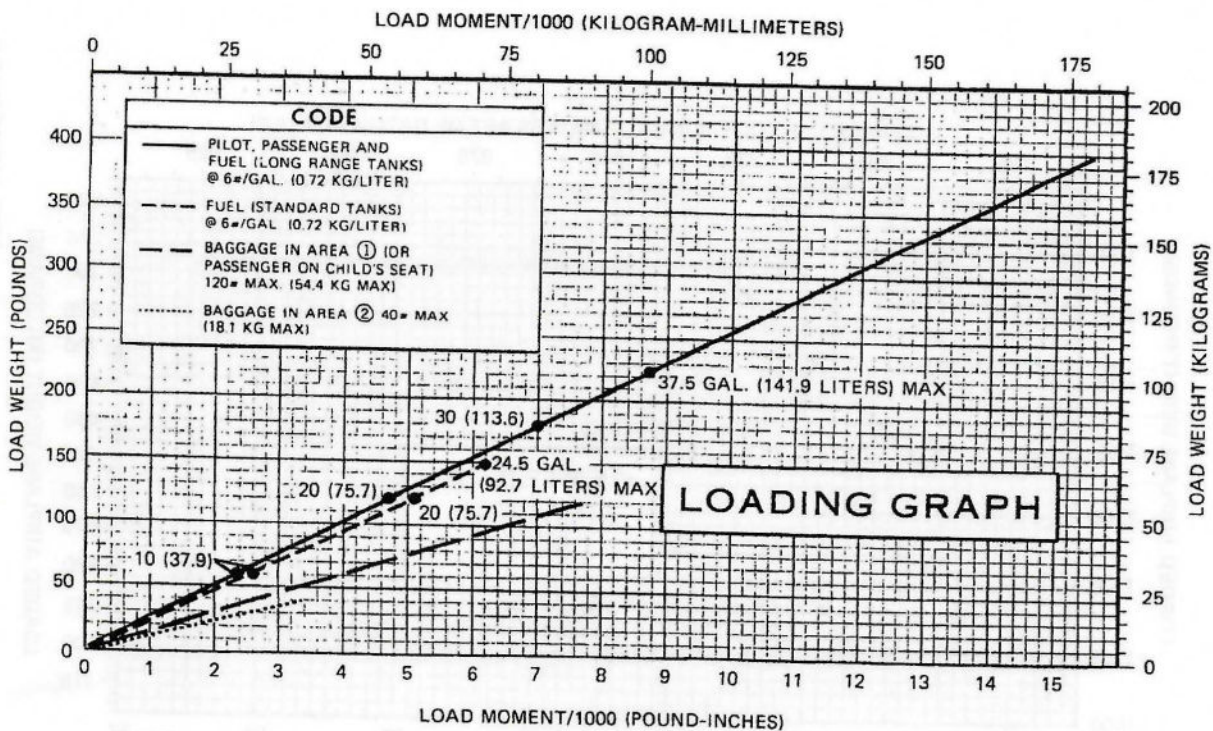
SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb. - ins. /1000)	Weight (lbs.)	Moment (lb. - ins. /1000)
1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil) . . . . .	1136	34.0	1141.95	34.82
2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (24.5 Gal. Maximum) . . . . . Long Range Tanks (37.5 Gal. Maximum) . . . . . Reduced Fuel (As limited by maximum 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.				

CESSNA  
MODEL 152

SECTION 6  
WEIGHT & BALANCE/  
EQUIPMENT LIST

Figure 6-6. Sample Loading Problem

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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

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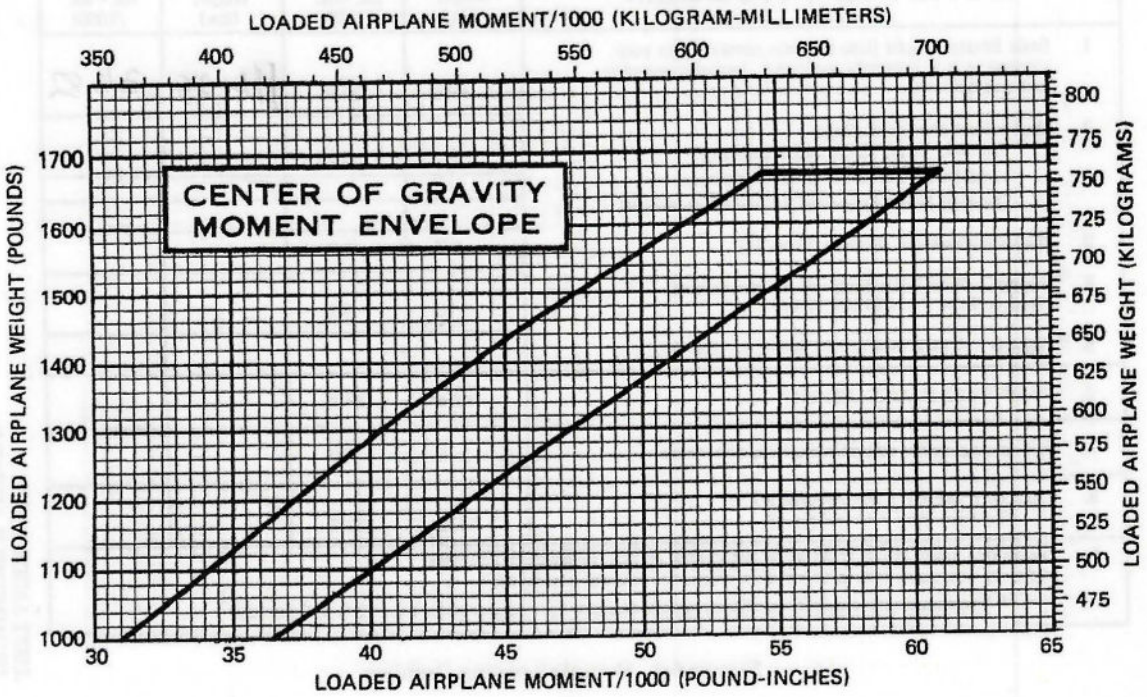


Figure 6-8. Center of Gravity Moment Envelope

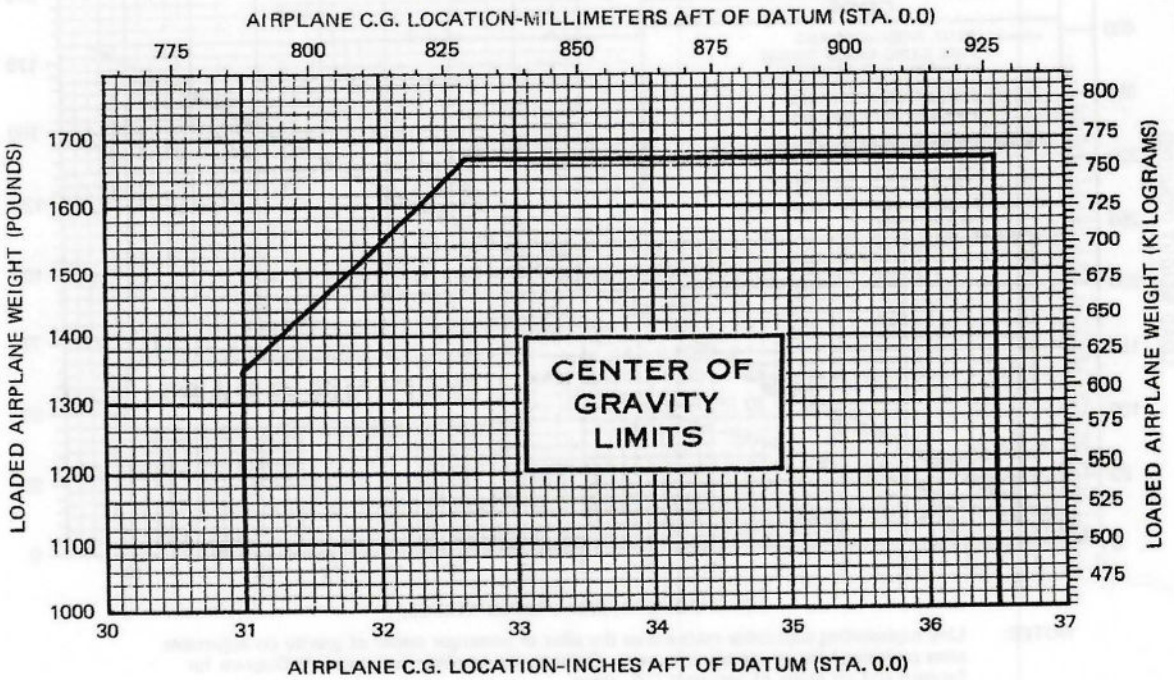


Figure 6-9. Center of Gravity Limits