

SAMPLE LOADING PROBLEM

ITEM DESCRIPTION	WEIGHT AND MOMENT TABULATION			
	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)	2029	73.0	2114	80.6
2 - Usable Fuel (At 6 Lbs./Gal.)				
- Standard Fuel - 87 Gallons Maximum	522	24.3	522	24.3
- Reduced Fuel - 64 Gallons	384	18.2	384	18.2
3 - Pilot and Front Passenger (FS 32 to 50)	340	12.6	340	12.6
4 - Rear Passengers (FS 74)	170	12.6	170	12.6
Cargo - Replacing Rear Passenger Seat (FS 65 to 82)			100	7.0
5 - *Baggage "A" (FS 82 to 109) 120 Pounds Maximum			50	1.5
*Baggage "B" (FS 109 to 124) 80 Pounds Maximum	51	5.9		
*Baggage "C" (FS 124 to 134) 80 Pounds Maximum				
6 - RAMP WEIGHT AND MOMENT	3112	128.4		
7 - Fuel allowance for engine start, taxi and runup	-12.0	-0.6		
8 - TAKEOFF WEIGHT AND MOMENT (Subtract Step 7 from Step 6)	3100	127.8		

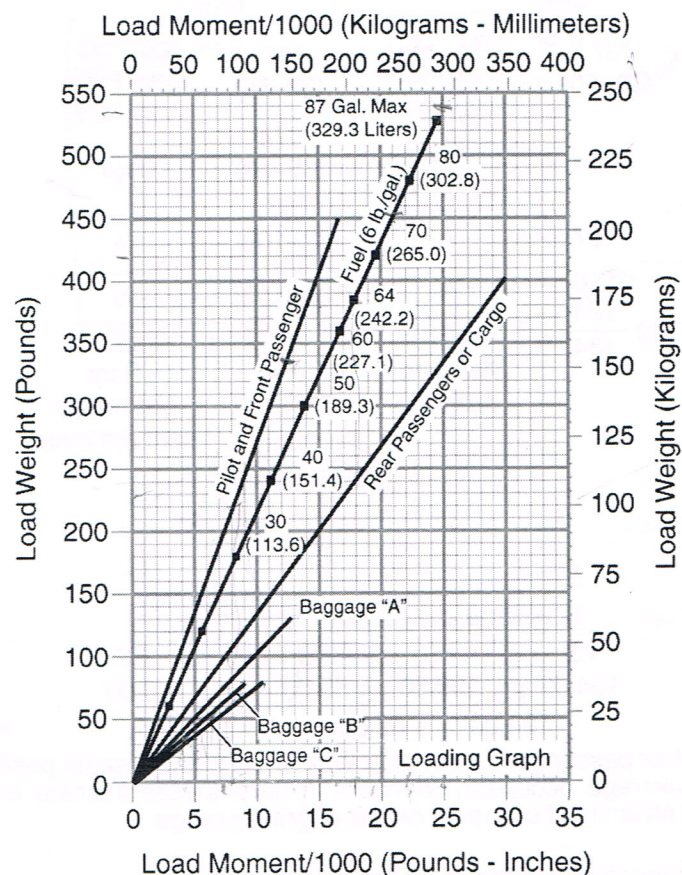
9 - Locate this point (3100 at 127.8) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable, providing that flight time is allowed for fuel burn-off to a maximum of 2950 pounds before landing.

*The maximum allowable combined weight capacity for baggage in areas A, B and C is 200 pounds. The maximum allowable combined weight capacity in areas B and C is 80 pounds.

Figure 6-3 (Sheet 1 of 2)

LOADING GRAPH

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NOTE

Line representing adjustable seats shows the pilot and front seat passenger center of gravity on adjustable seats positioned for average occupant. Refer to the Loading Arrangements diagram for forward and aft limits of occupant C.G. range.

Figure 6-4