

410

SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Licensed Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel.)	1366	53.8	1453	58.0
2. Oil (8 Qts. - The weight of full oil may be used for all calculations. 8 Qts. = 15 Lbs. at -0.2 Moment/1000).	15	-0.2	15	-0.2
3. Usable Fuel (At 6 Lbs./Gal.)				
Standard Tanks (38 Gal. Maximum)	228	10.9	150	7.0
Long Range Tanks (48 Gal. Maximum)				
4. Pilot and Front Passenger (Station 34 to 46) 126	340	12.6	352	17.0
5. Rear Passengers	340	24.8	240	25.0
6.*Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max.	11	1.0	20	2.0
7.*Baggage Area 2 (Station 108 to 142) 50 Lbs. Max.				
8. TOTAL WEIGHT AND MOMENT	2300	102.9	2200	
9. Locate this point (2300 at 102.9) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				
NOTE *The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 lbs.				