

N64477 Sample loading Problem	Sample Airplane		Your Airplane	
	Weight	Moment Lbs-in/1000	Weight	Moment Lbs-in/1000
1. Basic Empty Weight (use data for pertaining to your airplane. Include unusable fuel and full oil.)	1563.6	60.6	1555.8	60.5
2. Usable Fuel (6lbs / gal) Standard tanks 38 gal maximum	228.0	10.9		
3. Pilot and front passenger (Station 34 to 46")	340.0	12.6		
4. Rear passengers	168.0	12.3		
5. Baggage Area 1 or Child's seat (station 82 to 108, 120 lbs max)	7.4	0.7		
6. Baggage Area 2 (Station 108 to 142, 50 lbs Max)	0	0		
7. Ramp Weight & Moment	2307.0	97.1		
8. Fuel allowance for engine start, taxi, and runup	-7.0	-0.3		
9. Takeoff weight & moment (subtract step 8 from step 7)	2300.0	96.8		
10. Locate this point (2300 lbs at 96.8") in the Center of Gravity Moment Envelope, and since this point falls with the envelope, the loading is acceptable. *The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 lbs.				