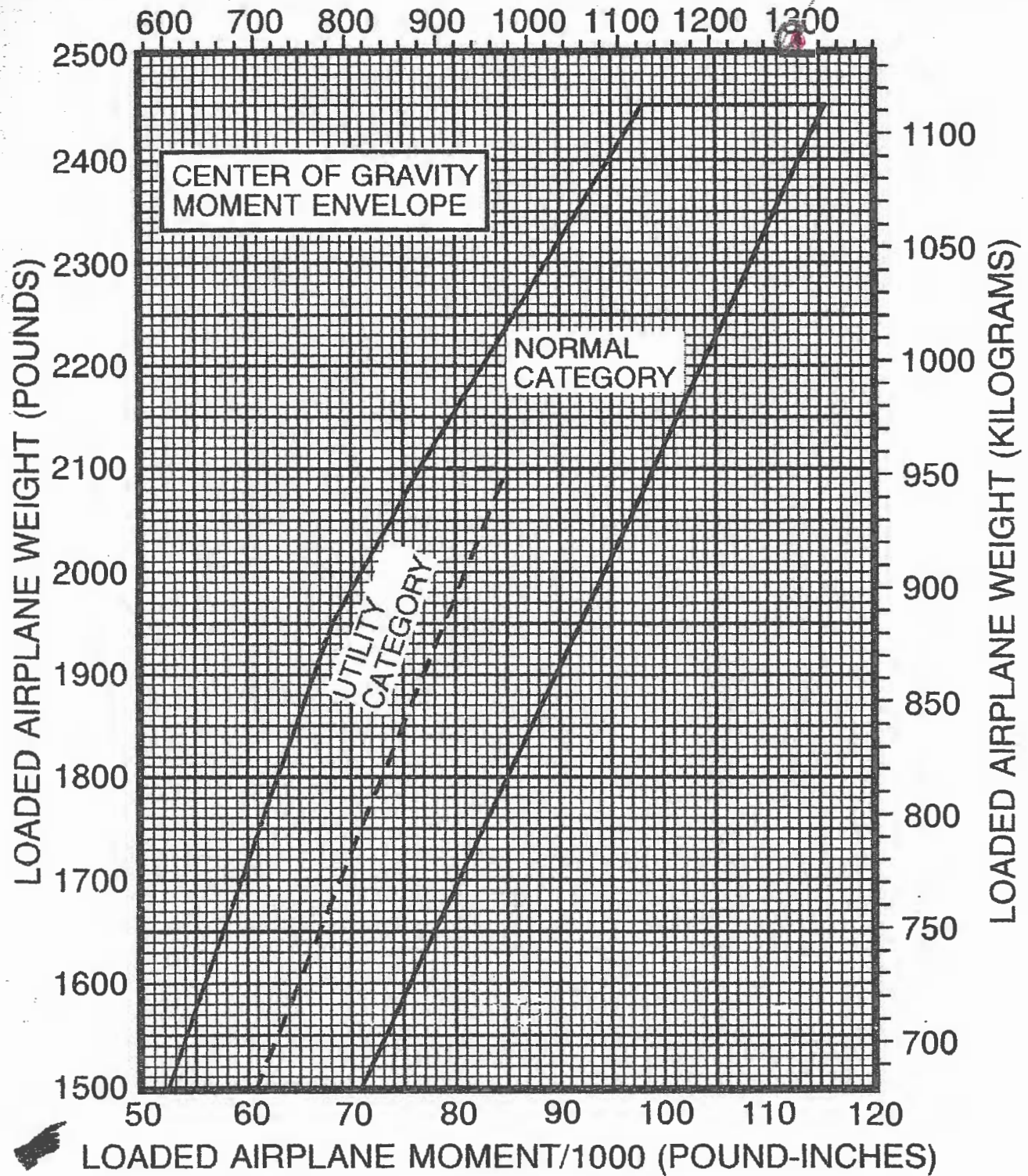


LOADED AIRPLANE MOMENT/1000 (KILOGRAM-MILLIMETERS)



SECTION 6
WEIGHT & BALANCE / EQUIPMENT LIST

CESSNA
MODEL 172R

N4207P

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)	1639	64.4	1669.6	65.327 MEM 39.127
2. Usable Fuel (At 6 Lbs./Gal.)				
53 Gallons Maximum				
35 Gallons (To reduced fuel indicator tab)	210	10.1	210	10.1
3. Pilot and Front Passenger (Station 34 to 46)	340	12.6	330	12.21
4. Rear Passengers	220	16.0	333	24.67
5. *Baggage Area 1 (Station 82 to 108; 120 Lbs. Max.)	48	3.4	10	0.95
6. *Baggage Area 2 (Station 108 to 142; 50 Lbs. Max.)				
7. RAMP WEIGHT AND MOMENT (add columns)	2457	106.5	2557.6	113.257
8. Fuel allowance for engine start, taxi and runup	-7.0	-0.3		1
9. TAKEOFF WEIGHT AND MOMENT (Subtract Step 8 from Step 7)	2450	106.2	2550.6	112.957
10. Locate this point (2450 at 106.2) 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 6-5. Sample Loading Problem (Sheet 1 of 2)

CESSNA
MODEL 172R

SECTION 6
WEIGHT & BALANCE / EQUIPMENT LIST

LF 130 LR 172
RF 200 RR 166 10-15 lbs bags

+10% H₂O TO MAX
LAST CELL
2457
→ 87 PA LOAD

YOUR AIRPLANE		YOUR AIRPLANE		YOUR AIRPLANE	
Weight (lbs.)	Moment (Lb-ins. /1000)	Weight (lbs.)	Moment (Lb-ins. /1000)	Weight (lbs.)	Moment (Lb-ins. /1000)
1669.6	65.327				
210.	10.1				
363	13.43				
372	27.14				
15	1.43				
2629.6	117.427				
2622.6	117.127				

NOTE

93.6 - 165.6 POUNDS OVER MAX GROSS WT
When several loading configurations are representative of your operations, it may be useful to fill out one or more of the above columns so specific loadings are available at a glance.

Figure 6-5. Sample Loading Problem (Sheet 2 of 2)