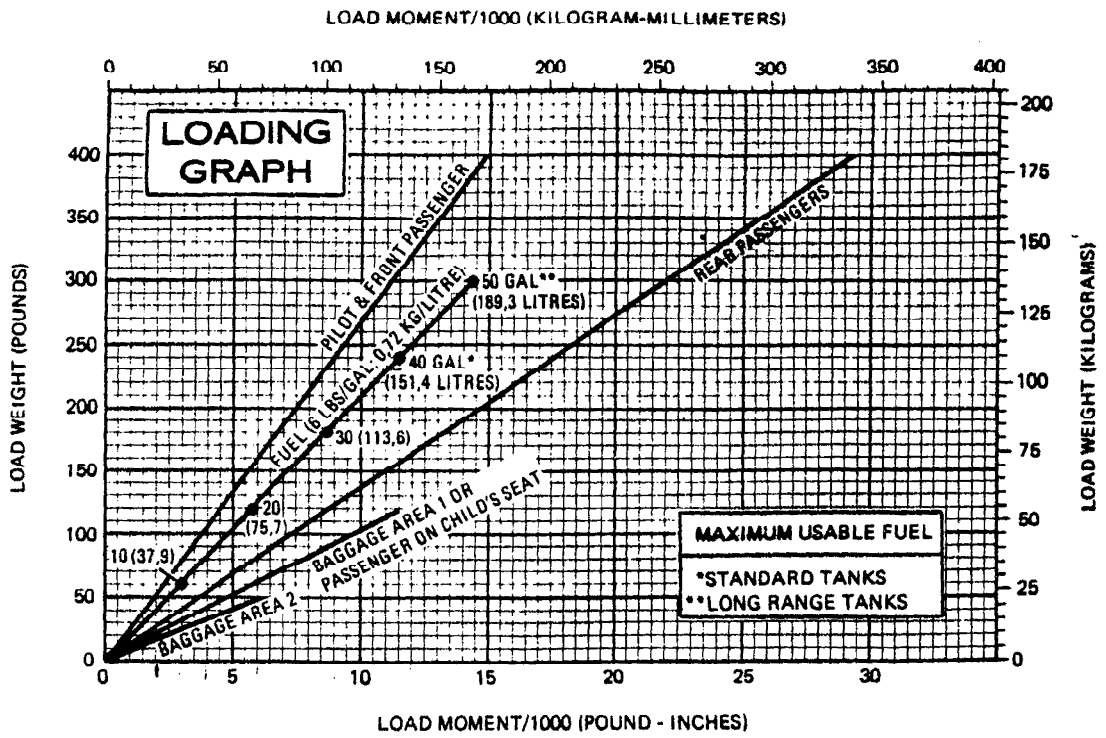
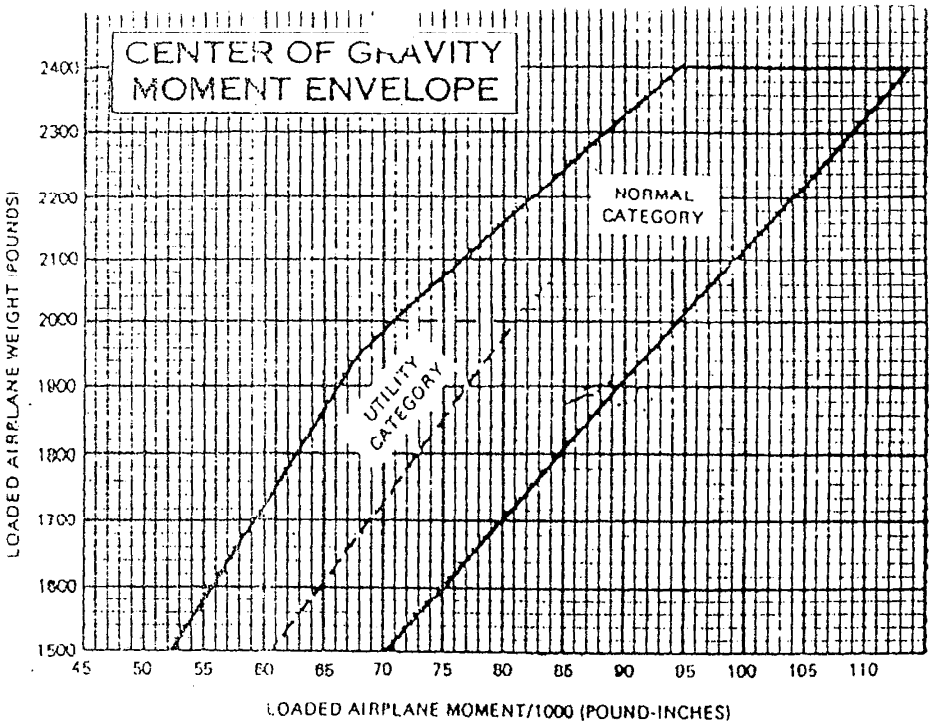
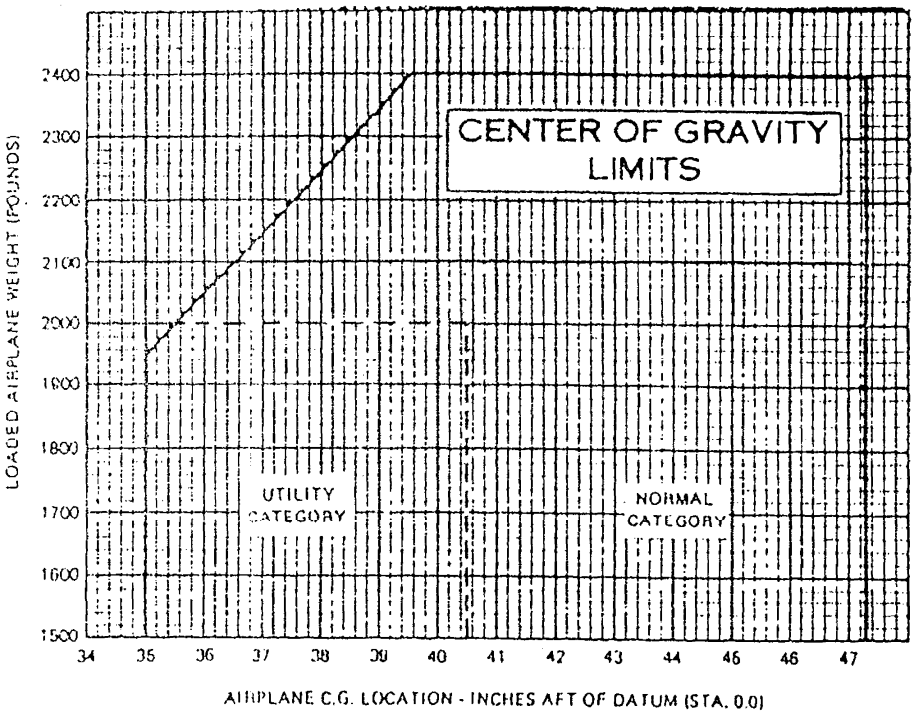


NOTE: Line representing adjustable seats shows the pilot or passenger center of gravity on adjustable seats positioned for an average occupant. Refer to the Loading Arrangements diagram for forward and aft limits of occupant C.G. range.

Figure 6-6. Loading Graph


CENTER OF GRAVITY
MOMENT ENVELOPE
NORMAL
CATEGORY
UTILITY
CATEGORY
LOADED AIRPLANE WEIGHT (POUNDS)
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
45
50
55
60
65
70
75
80
85
90
95
100
105
110
LOADED AIRPLANE MOMENT/1000 (POUND-INCHES)


CENTER OF GRAVITY
LIMITS
UTILITY
CATEGORY
NORMAL
CATEGORY
LOADED AIRPLANE WEIGHT (POUNDS)
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
34
35
36
37
38
39
40
41
42
43
44
45
46
47
AIRPLANE C.G. LOCATION - INCHES AFT OF DATUM (STA. 0.0)

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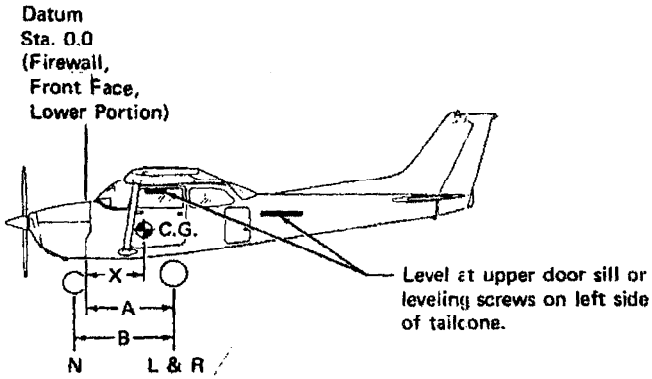

Scale Position	Scale Reading	Tare	Symbol	Net Weight
Left Wheel	533.5	0	L	533.5
Right Wheel	544.0	0	R	544.0
Nose Wheel	505.0	0	N	505.0
Sum of Net Weights (As Weighed)			W	1582.5

$$X = ARM = \frac{(A) - (N) \times (B)}{W} ; X = \frac{(58) - (505) \times (65)}{(1582.5)} = (\quad) \text{ IN.}$$

(20.742) 37.258

Item	Weight (Lbs.)	X C.G. Arm (In.) =	Moment/1000 (Lbs.-In.)
Airplane Weight (From Item 5, page 6-3)	1582.5	37.258	58960.785
Add Oil:			
No Oil Filter (6 Qts at 7.5 Lbs/Gal)		-14.0	
With Oil Filter (7 Qts at 7.5 Lbs/Gal)		-14.0	
Add Unusable Fuel:			
Std. Tanks (3 Gal at 6 Lbs/Gal)	18	46.0	828
L.R. Tanks (4 Gal at 6 Lbs/Gal)		46.0	
Equipment Changes			
Airplane Basic Empty Weight	1600.5	37.36	59788.785

Figure 6-1. Sample Airplane Weighing