

IAA - C172M WEIGHT AND BALANCE

AIRCRAFT: N _____

WEIGHTS	WEIGHT	ARM	MOMENT
Basic Empty Weight			
Pilot/Front Passenger		37.0	
Rear Passengers		73.0	
Front Baggage area 1		95.0	
Rear Baggage area 2		123.0	
Oil	15.0		(-200)
ZERO FUEL WEIGHT			
Fuel			
RAMP WEIGHT			
Taxi, Start, Run up (1.1g)	(-6.6)		(-316.8)
TAKEOFF WEIGHT			
Fuel burned	(-)		(-)
LANDING WEIGHT			

*W.A.M.: Weight * Arm = Moment*
 Fuel is 6lbs/gal
 Fuel moment from Pg. 4-7 in POH (backside of this sheet)
 CG = TOTAL MOMENT/TOTAL WEIGHT
 Va = Va(@maxgross) X √ (landing weight / max gross weight)

Limitations:
 Max Ramp Weight: 2306.6 Lbs
 Max Takeoff Weight: 2300 Lbs
 Max Landing Weight: 2300 Lbs
 Baggage area one max: 125 Lbs
 Baggage area two max: 50 Lbs

Departure Airport: _____

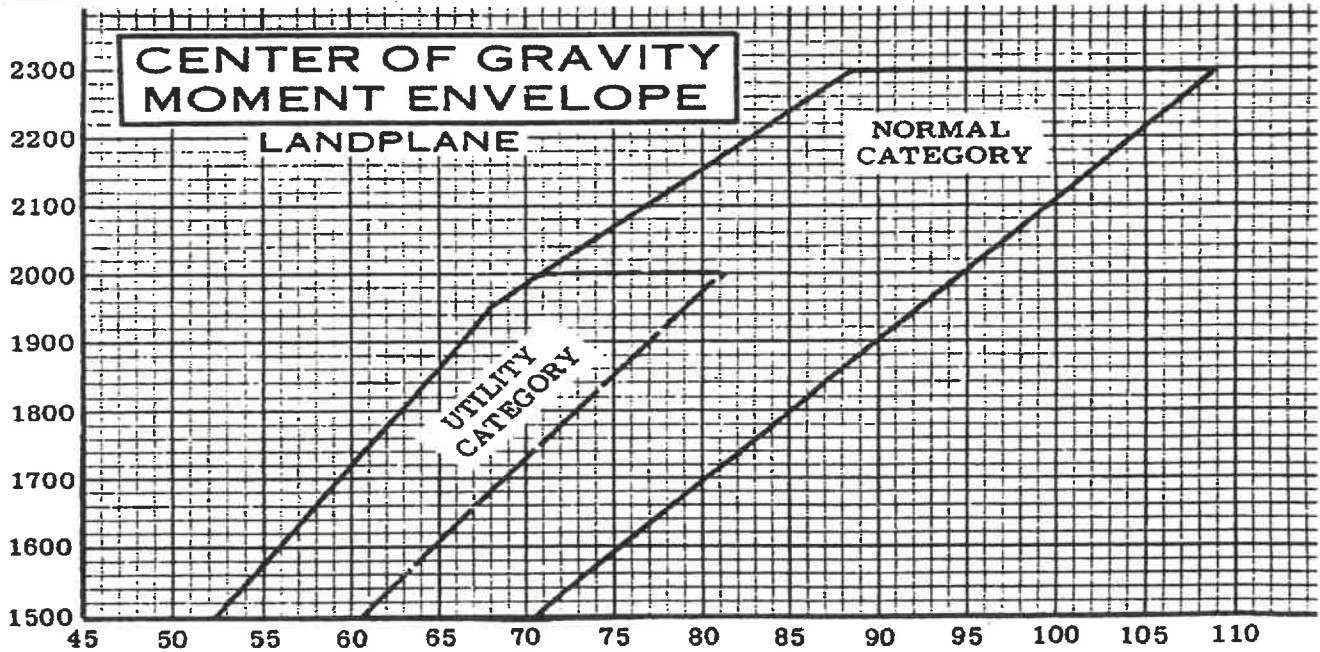
Altimeter: _____
 O.A.T: _____
 Pressure Altitude: _____
 Density Altitude: _____
 Winds: _____
 Runway: _____
 Headwind: _____
 crosswind: _____

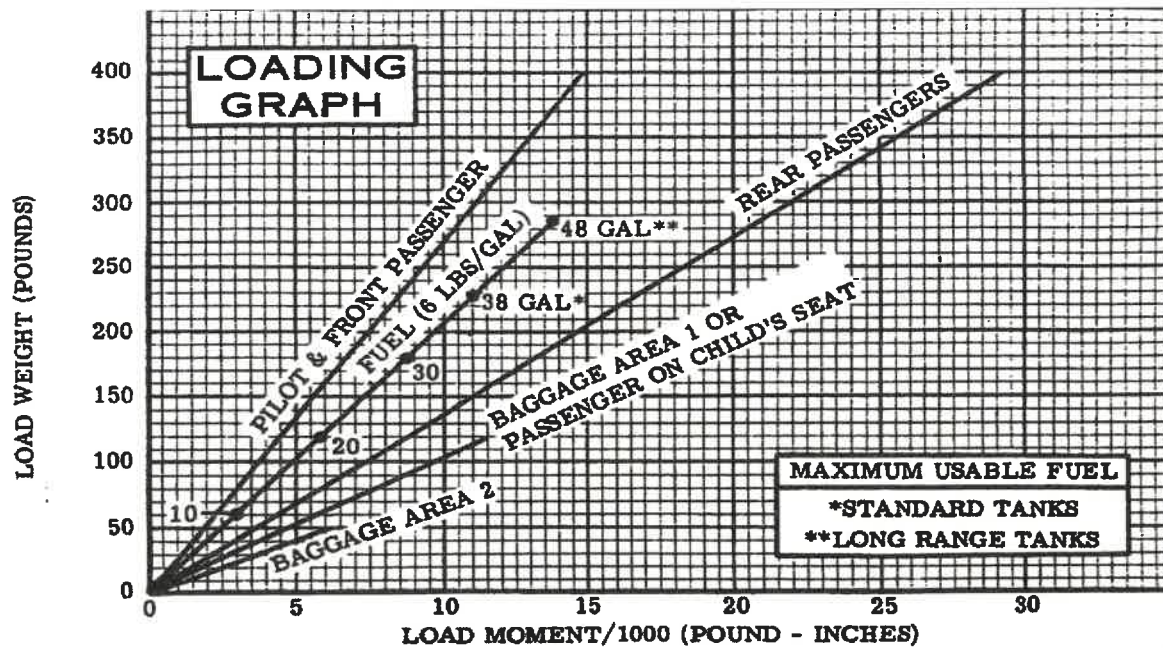
Destination Airport: _____

Altimeter: _____
 O.A.T: _____
 Pressure Altitude: _____
 Density Altitude: _____
 Winds: _____
 Runway: _____
 Headwind: _____
 Crosswind: _____

Takeoff and Landing Calculations

Takeoff Roll: _____
 Takeoff to clear 50': _____
 Landing Roll: _____
 Landing to clear 50': _____
 Va: _____





NOTES: (1) 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.
 (2) Engine Oil: 8 Qts. = 15 Lbs. at -0.2 Moment/1000.

IAA AIRCRAFT

AIRPLANE	EMPTY WEIGHT	CG	MOMENT	USEFUL LOAD	TANKS
12657	1449.7	39.7	57546.72	850.3	Standard
9622Q	1457.42	39.26	57223.3	842.58	Standard
20437	1424.9	38.42	54746.73	875.1	Standard
20095	1422.27	38.4	54635.21	862.73	Standard
4397Q	1454	36.66	53303.64	846	Standard
12442	1477.5	39.317	58,090.88	822.5	Long Range
172SS	1429.1	38.28	54704.28	870.9	Long Range
1242U	1432.4	39.25	56218.78	867.6	Long Range
8398L	1387	38.37	53219.19	913	Standard
5367H	1571.6	39.174	57648.85	728.4	Standard

Standard Tanks: 38 gal Useable

Long Range: 48 gal Useable

