

AirfoilLabs Cessna 172 SP Weight & Balance

Pilot In Command must verify all information is correct according to aircraft POH

Date	Mission No	Type	H.P.	Tail. No	CAPF No
<input type="text"/>					

Sortie No: **Weight** x **Arm** = **Moment**

Basic Empty Weight: 1642 x 38.1 = 62560.2

Pilot _____ x 37 = _____

Co-Pilot _____ x 37 = _____

Passenger 1 _____ x 73 = _____

Passenger 2 _____ x 73 = _____

Baggage area 1 (120 lbs MAX) _____ x 95 = _____

Baggage area 2 (50 lbs MAX) _____ x 123 = _____

The maximum combined weight capacity for Baggage Area 1 and Baggage Area 2 is 120 lbs.

Usable Fuel: _____ x 6 lbs / Gallon = _____ x 48 = _____

Total Weight & Moment _____

AC Color: _____ / _____ = _____
 Total Moment / Total Weight = C.G.

Taxi Fuel: _____ x 6 lbs / Gallon = _____ x 48 = _____

TakeOff Condition: _____ / _____ = _____
 Total Moment / Total Weight = C.G.

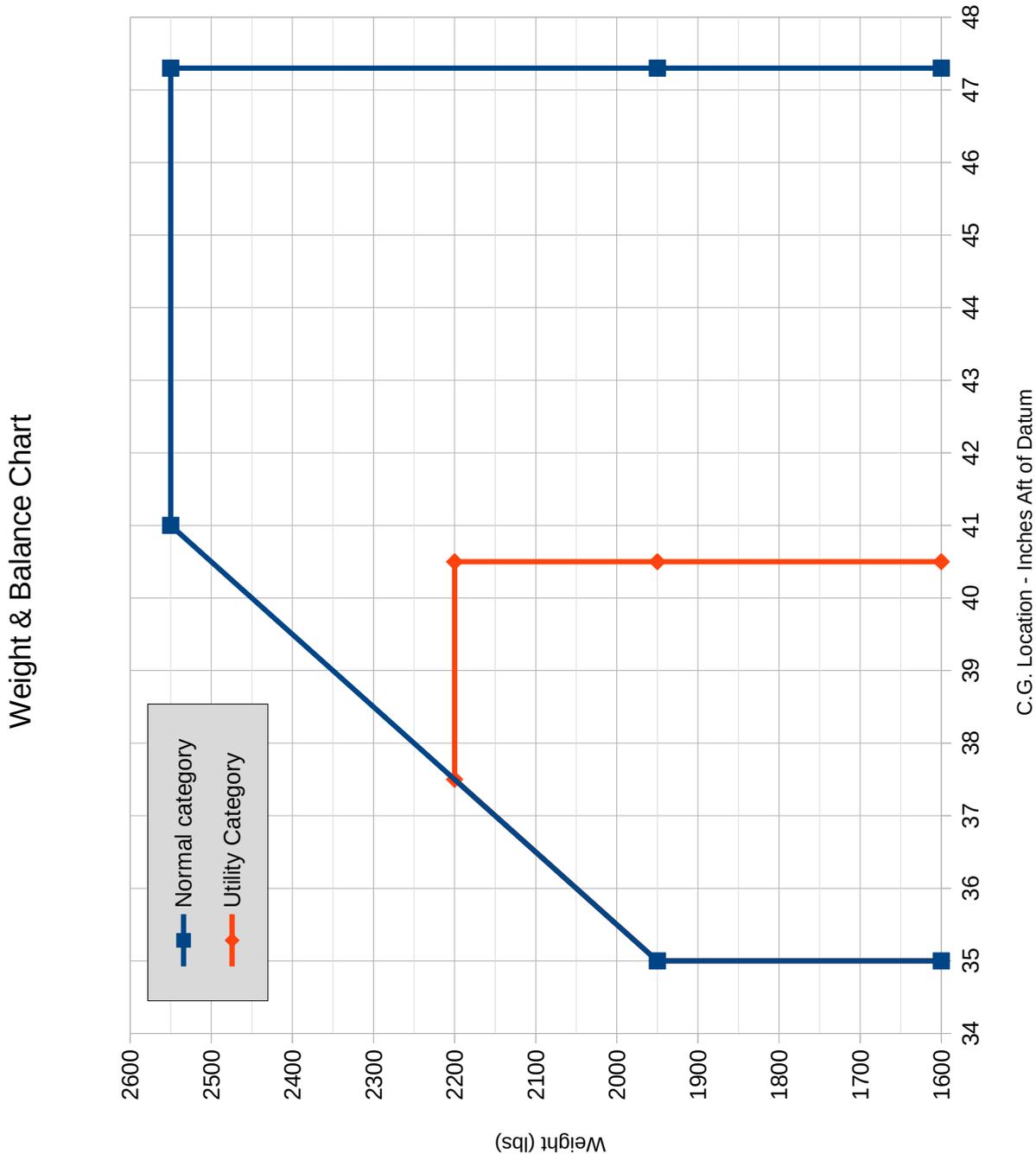
Trip Fuel: _____ x 6 lbs / Gallon = _____ x 48 = _____

Landing Condition: _____ / _____ = _____
 Total Moment / Total Weight = C.G.

Fuel Capacity:	
Total Usable:	56.0 US Gallons
Total Usable Each Tank:	28.0 US Gallons

STANDARD AIRPLANE WEIGHTS

Maximum Ramp Weight (Normal Category):	2558 Lbs
Maximum Ramp Weight (Utility Category):	2208 Lbs
Standard Empty Weight (With Oil):	1642 Lbs
Maximum Useful Load (Normal Category):	916 Lbs
Maximum Useful Load (Utility Category):	566 Lbs
Maximum Takeoff Weight (Normal Category):	2550 Lbs
Maximum Takeoff Weight (Utility Category):	2200 Lbs
Maximum Landing Weight (Normal Category):	2550 Lbs
Maximum Landing Weight (Utility Category):	2200 Lbs



You should know

Intended for simulation purposes only!

The weights used in this sheet are adjusted to match the AirfoilLabs Cessna 172 SP for X-Plane 11.

The CG diagram and the Arms of loading stations (Pilot, fuel tanks...) were build upon values from manual for AirfoilLabs Cessna 172 SP and generic C172SP POH. So the calculations based upon this sheet may not match 100% those within the simulator.

Not sure whether the aircraft models unusable fuel, but it is possible to load up to 56 US Gallons of fuel, so the usable fuel figures in this sheet has been updated to match this.

If you find any error, have some suggestion, improvement, built sheets for other aircraft based on this one... I will be happy if you let me know at admin@mouseviator.com.