

Textron Aviation 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: 1691 x 37 = 62567

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.

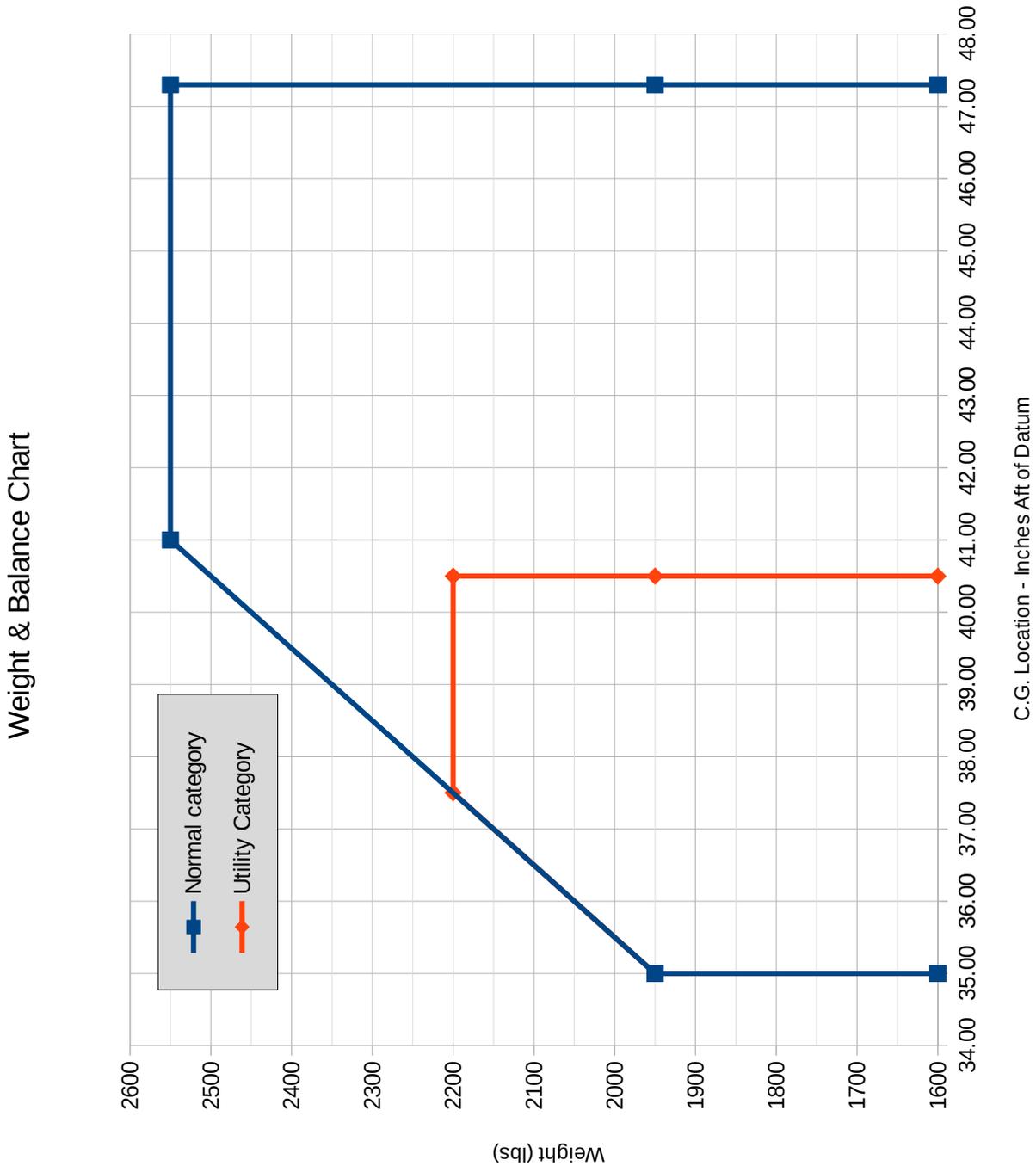
Trip Fuel: _____ x 6 lbs / Gallon = _____ x 48 = _____

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

Fuel Capacity:	
Total Usable:	53.0 US Gallons
Total Usable Each Tank:	26.5 US Gallons

STANDARD AIRPLANE WEIGHTS

Maximum Ramp Weight (Normal Category):	2558 Lbs
Maximum Ramp Weight (Utility Category):	2208 Lbs
Standard Empty Weight (With Oil):	1691 Lbs
Maximum Useful Load (Normal Category):	867 Lbs
Maximum Useful Load (Utility Category):	517 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 Asobo Cessna 172 SP.

The CG diagram and the Arms of loading stations (Pilot, fuel tanks...) were build upon values from generic C172 POH and thus may not be 100% accurate with the simulator aircraft.

Beware of fuel loading. MSFS apparently does not include unusable fuel in its empty weight figure. As from the definition, Standard empty weight (GAMA)— aircraft weight that consists of the airframe, engines, and all items of operating equipment that have fixed locations and are permanently installed in the aircraft, including fixed ballast, hydraulic fluid, unusable fuel, and full engine oil. But you are allowed to fill each tank up to 28 US Gallons and the whole weight of this fuel is added to the resulting calculation, while the unusable fuel should be included in the empty weight. This sheet, on the other hand, expects that unusable fuel as well as full engine oil is included in empty weight, so, the maximum fuel should be 53 US Gallons.

This sheet is applicable for the classic, G1000 and ski variant.

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.