Textron Aviation Cessna 172 SP Amphibian 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

		Weight	x	Arm	=	Moment
Sortie No:						
Basic Empty Weight:		1891	x	37	=	69967
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 = _____

_____ / _____ = _____
Total Moment   Total Weight   C.G.

TakeOff Condition:

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

_____ / _____ = _____
Total Moment   Total Weight   C.G.

Landing Condition:

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
Standard Empty Weight (With Oil):   1891 Lbs
Maximum Useful Load (Normal Category):   667 Lbs
Maximum Takeoff Weight (Normal Category):   2550 Lbs
Maximum Landing Weight (Normal Category):   2550 Lbs

Weight & Balance Chart
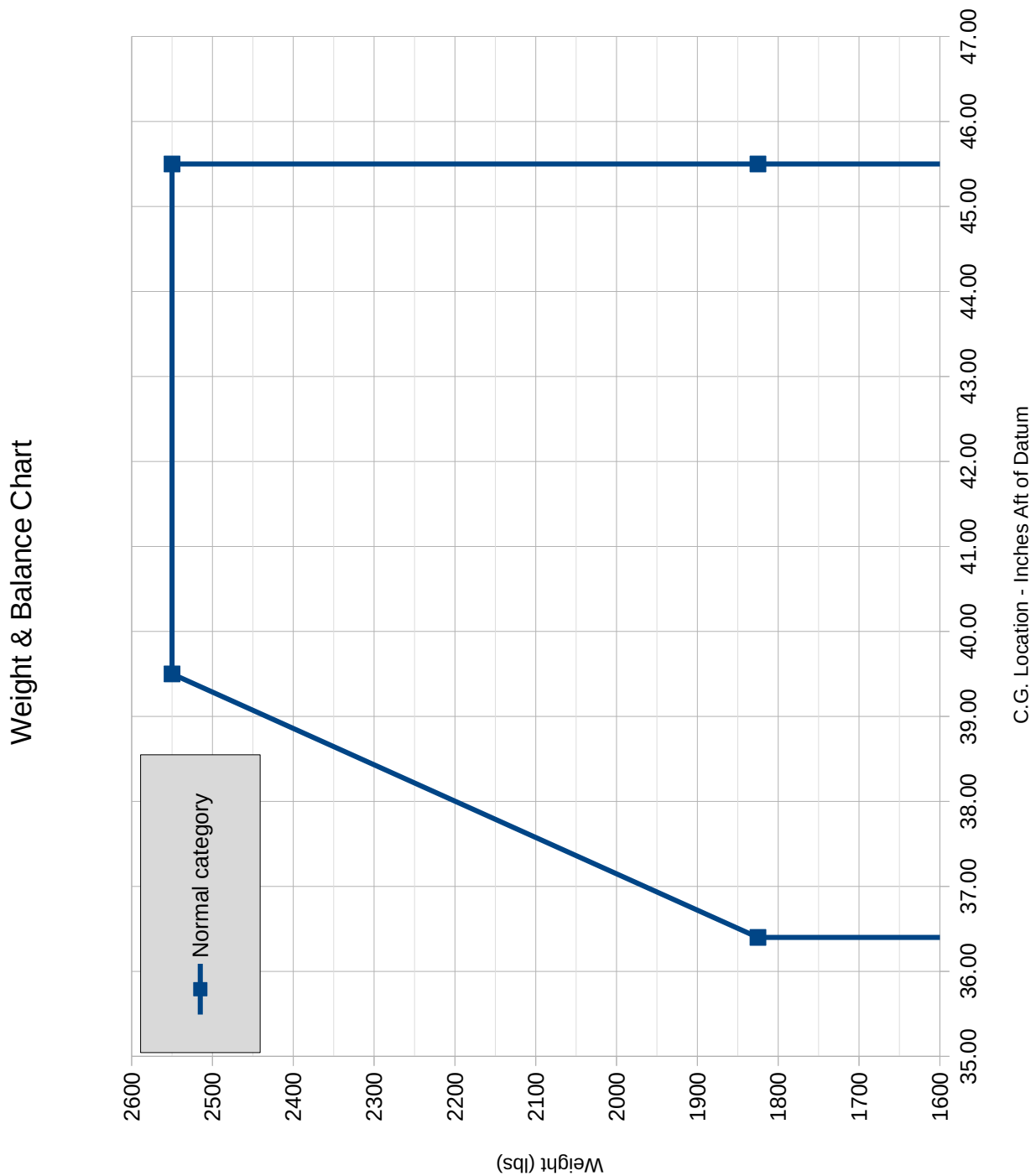
You should know

The weights used in this sheet are adjusted to match the Asobo Cessna 172 SP Amphibian.

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 float/amphibian 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.