

# Thranda DHC-2 Beaver 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"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Sortie No:  Weight x Arm = Moment

Basic Empty Weight: 3246 x -1.7 = -5518.2

Pilot  x -7.29 =

Co-Pilot  x -7.29 =

Passenger 1  x 20.55 =

Passenger 2  x 20.55 =

Passenger 3  x 53.03 =

Passenger 4  x 53.03 =

Baggage area (1250 Lbs MAX)  x 94 =

Fuel tank:  x 6 lbs / Gallon =  x -3.34 =

Front  x 6 lbs / Gallon =  x -3.34 =

Cap. 35 Gal

Middle  x 6 lbs / Gallon =  x -3.34 =

Cap. 35 Gal

Rear  x 6 lbs / Gallon =  x 20.94 =

Cap. 25 Gal

Belly  x 6 lbs / Gallon =  x 10.47 =

Cap. 43 Gal

Wing tip  x 6 lbs / Gallon =  x 10.79 =

Cap. 42 Gal

Total Weight & Moment  /  =

AC Color:   /  =  C.G.

Taxi Fuel:  x 6 lbs / Gallon =  x 15.78 =

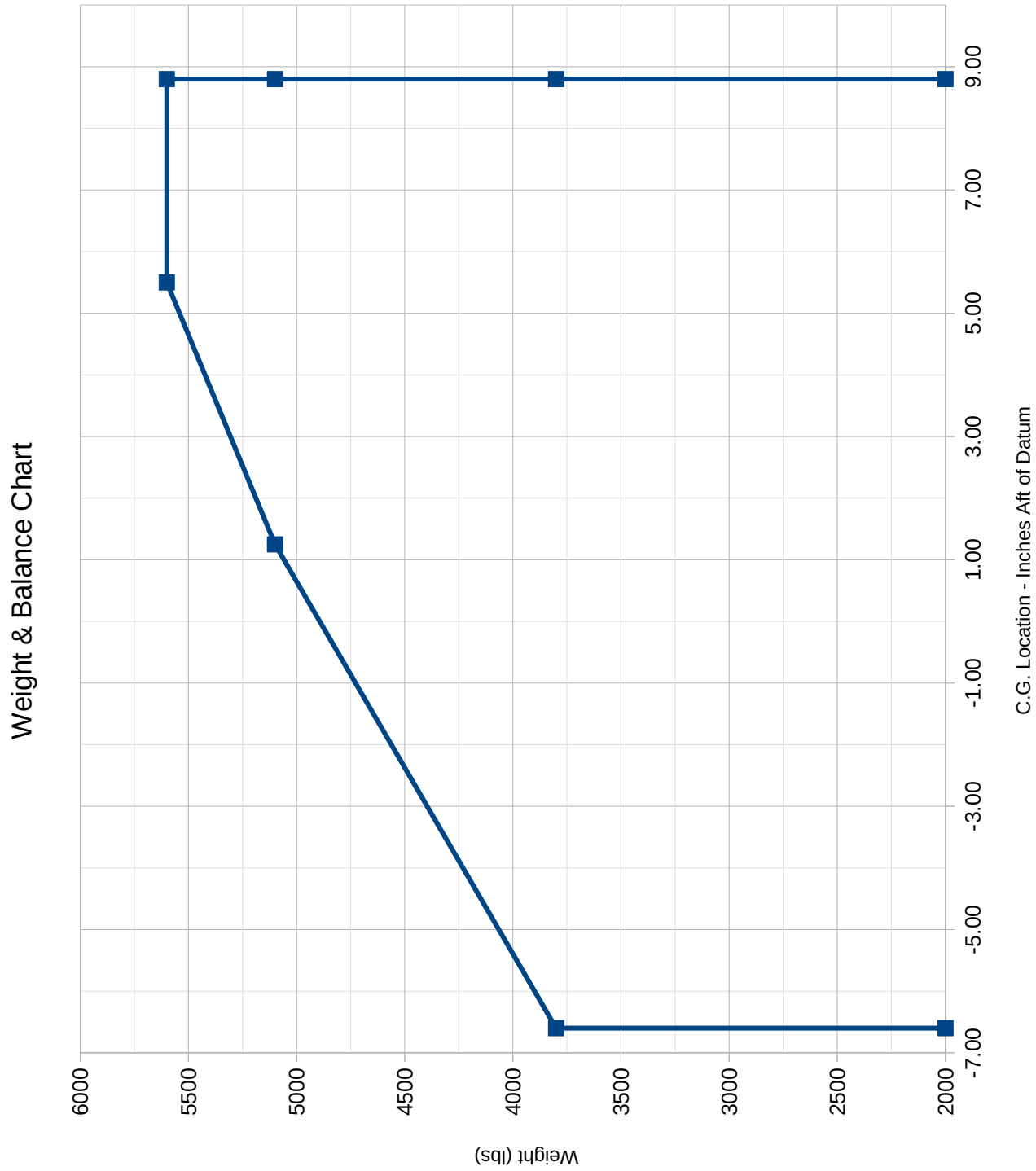
TakeOff Condition:  /  =  C.G.

Trip Fuel:  x 6 lbs / Gallon =  x 15.78 =

Landing Condition:  /  =  C.G.

# STANDARD AIRPLANE WEIGHTS

|  |          |
|--|----------|
| Basic Empty Weight (Sea plane):                    |          |
| Basic Empty Weight (Land plane / Ski plane):       | 3246 Lbs |
| Maximum Useful Load (Sea plane):                   |          |
| Maximum Useful Load (Land plane / Ski plane):      |          |
| Maximum Takeoff Weight (Sea plane):                | 5500 Lbs |
| Maximum Takeoff Weight (Land plane / Ski plane):   | 5600 Lbs |
| Maximum Landing Weight (when OAT < -25 degrees C): | 5100 Lbs |



# You should know

**Intended for simulation purposes only!**

The weights used in this sheet are adjusted to match the Thranda DHC-2 Beaver for X-Plane 11.

The CG diagram and the Arms of loading stations (Pilot, fuel tanks...) were build upon values from manual for Thranda DHC-2 Beaver and by own computations. I watched how the final CG will change while changing weight on all respective stations using the Thandra Weight and Balance dialog and from that I computed the CG location of respective station. Even though there is still some error, the values are not completely off as they were when used CG locations from generic POH. The Weight and Load panel in the simulator probably account forward and aft limit of each station, therefore, its calculations are more precise. The CG location values in this sheet account for fully loaded station (fuel tanks, seats were computed with weight about 185 lbs).

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](mailto:admin@mouseviator.com).