

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"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

| | | | | | | |
|-------------|------------------------------|--------|---|------|---|---------|
| Sortie No: | <input type="text"/> | Weight | x | Arm | = | Moment |
| | | | | | | |
| | Basic Empty Weight: | 1642 | x | 38.1 | = | 62560.2 |
| Pilot | <input type="text"/> | | x | 37 | = | |
| Co-Pilot | <input type="text"/> | | x | 37 | = | |
| Passenger 1 | <input type="text"/> | | x | 73 | = | |
| Passenger 2 | <input type="text"/> | | 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: | <input type="text"/> | x 6 lbs / Gallon = | <input type="text"/> | x | 48 | = | <input type="text"/> |
|--------------|----------------------|--------------------|----------------------|---|----|---|----------------------|

Total Weight & Moment

| | | | | | |
|-----------|----------------------|---|----------------------|---|----------------------|
| AC Color: | <input type="text"/> | / | <input type="text"/> | = | <input type="text"/> |
| | Total Moment | | Total Weight | | C.G. |

| | | | | | | | |
|------------|----------------------|--------------------|----------------------|---|----|---|----------------------|
| Taxi Fuel: | <input type="text"/> | x 6 lbs / Gallon = | <input type="text"/> | x | 48 | = | <input type="text"/> |
|------------|----------------------|--------------------|----------------------|---|----|---|----------------------|

| | | | | | |
|--------------------|----------------------|---|----------------------|---|----------------------|
| TakeOff Condition: | <input type="text"/> | / | <input type="text"/> | = | <input type="text"/> |
| | Total Moment | | Total Weight | | C.G. |

| | | | | | | | |
|------------|----------------------|--------------------|----------------------|---|----|---|----------------------|
| Trip Fuel: | <input type="text"/> | x 6 lbs / Gallon = | <input type="text"/> | x | 48 | = | <input type="text"/> |
|------------|----------------------|--------------------|----------------------|---|----|---|----------------------|

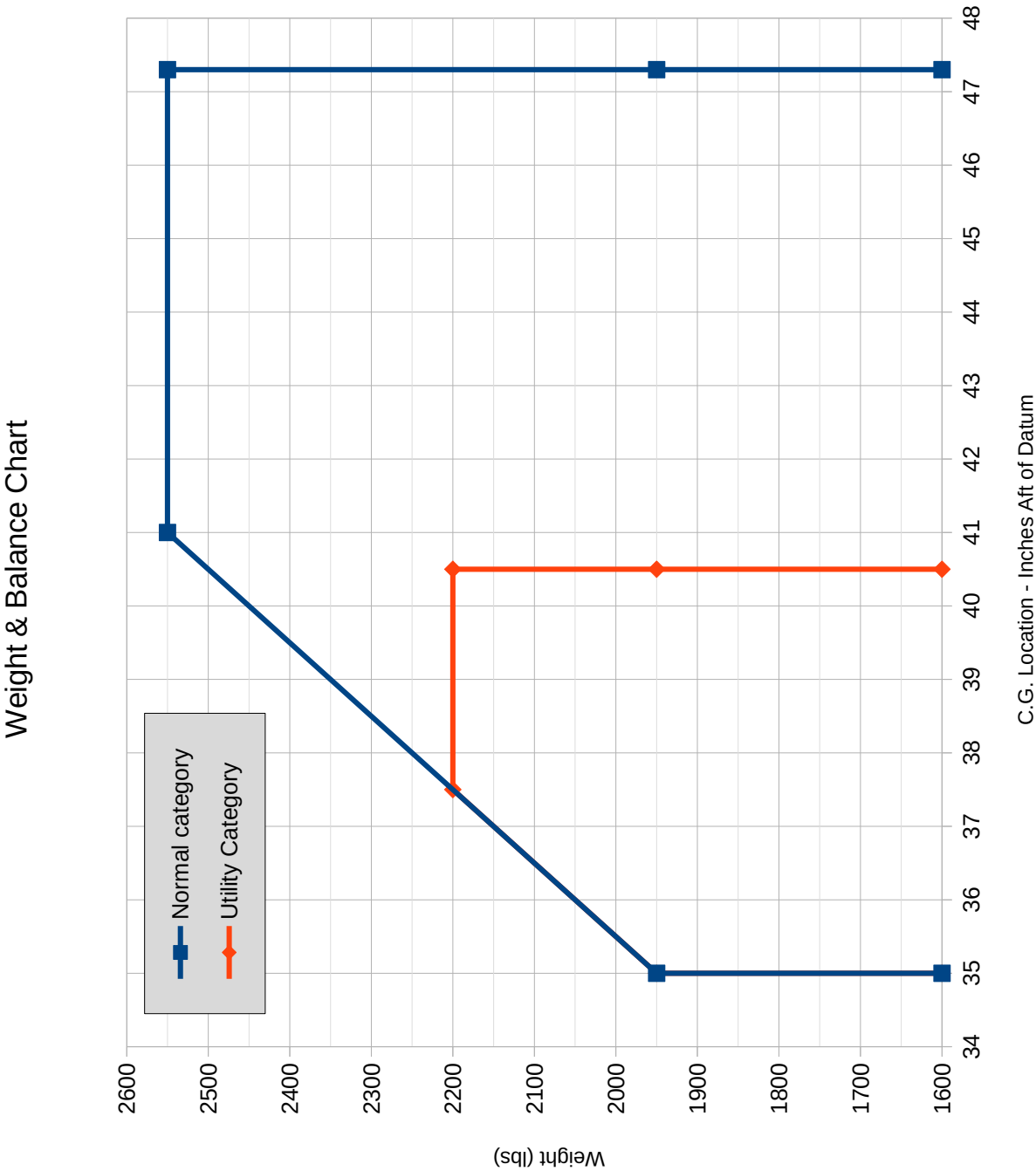
| | | | | | |
|--------------------|----------------------|---|----------------------|---|----------------------|
| Landing Condition: | <input type="text"/> | / | <input type="text"/> | = | <input type="text"/> |
| | Total Moment | | Total Weight | | C.G. |

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.