

Aircraft Basic Empty Weight and Balance

Date: September 27, 2023

Model: C172P

Aircraft Serial: 17276456

Registration: N99508

Aircraft weighed this date IAW Cessna TCDS 3A12, POH/AFM weight and balance section and AC43.13-1B section 2, utilizing calibrated wheel weighing scales.

Scale S1 reading = 650 lbs.	Left main wheel	Tare = 0 lbs.	Net weight = 650 lbs.
Scale S2 reading = 642 lbs.	Right main wheel	Tare = 0 lbs.	Net weight = 642 lbs.
Scale S3 reading = 509 lbs.	Nose wheel	Tare = 0 lbs.	Net weight = 509 lbs.

Aircraft weighed with **full fuel (43 gallons), 7 qt. Indicated Engine Oil**, no wheel pants / fairings installed and no other portable equipment installed. Fire extinguisher installed. Front seats in full forward position. Aircraft leveled longitudinally and laterally as specified in AFM.

Scale S1 arm = 58.6

Scale S2 arm = 58.6

Scale S3 arm = (5.8) (as measured)

Total empty weight as stated = 1801

CG empty weight = 40.3

Total moment = 72759

Less usable fuel 40 gallons = (240) lbs @ arm 48 = (11520) moment

Total weight less fuel as specified = 1561 lbs.

CG less fuel as specified = 39.23 as weighed

Total moment = 61239

C.G. Range

Landplane:

Normal category

(+39.5) to (+47.3) at 2400 lbs.

(+35.0) to (+47.3) at 1950 lbs. or less

Utility category

(+36.5) to (+40.5) at 2100 lbs.

(+35.0) to (+40.5) at 1950 lbs. or less

Straight line variation between points given.

It is the responsibility of the airplane owner and pilot to assure that the airplane is properly loaded. Maximum allowable gross weight is 2400. See "weight and balance section" for loading instructions.


David Beaver 

Beaver Air Services & Equipment, Inc.