

**SECTION 6
WEIGHT AND BALANCE**

PA-28-181, ARCHER III

MODEL PA-28-181 ARCHER III

Airplane Serial Number 2881581

Registration Number N509AM

Date 10/14/2022

AIRPLANE BASIC EMPTY WEIGHT

Item	Weight (Lbs)	C.G. Arm x (Inches Aft of Datum)	= Moment (In-Lbs)
Standard Empty Weight* Computed Actual	1645.5	87.6313	144197.3
Optional Equipment	31.7	107.6909	3413.8
Basic Empty Weight	1677.2	88.0104	147611.1

*The standard empty weight includes full oil capacity and 2.0 gallons of unusable fuel.

AIRPLANE USEFUL LOAD

(Ramp Weight) - (Basic Empty Weight) = Useful Load

Normal Category (2558 lbs) - (**1677.2** lbs) = **880.8** lbs.

Utility Category (2138 lbs) - (**1677.2** lbs) = **460.8** lbs.

THIS BASIC EMPTY WEIGHT, C.G. AND USEFUL LOAD ARE FOR THE AIRPLANE AS CERTIFIED AT THE FACTORY. REFER TO APPROPRIATE AIRCRAFT RECORD WHEN ALTERATIONS HAVE BEEN MADE.

WEIGHT AND BALANCE DATA FORM

Figure 6-5