# Weight & Balance
## Archer: N353MK

| PRACTICE USE ONLY | Weight | Arm | Moment |
|---|---|---|---|
| **Basic Empty Weight** | 1659.2 | 88.0613 | 146108.7 |
| Pilot/Copilot | | 80.5 | |
| Rear Passengers | | 118.1 | |
| Baggage Area (200 lbs max) | | 142.8 | |
| **Zero Fuel Weight** | | | |
| Fuel Weight | | 95.0 | |
| **Ramp Weight** | | | |
| Start / Taxi / Run-up | -8 | 95.0 | -665 |
| **Takeoff Weight** | | | |
| Tail # Adjustment (if applicable) | | | |
| New Takeoff Weight (if applicable) | | | |
| Trip Fuel Burn | | 95.0 | |
| **Landing Weight** | | | |
| Tail # Adjustment (if applicable) | | | |
| New Landing Weight (if applicable) | | | |

New Tail Number (if switched by dispatch): N3____MK

**Persons on Board**

Passenger Current?

PIC Name: _____ Weight: _____ ☐

Additional Pilot Name: _____ Weight: _____ ☐

Passenger #1 Name: _____ Weight: _____

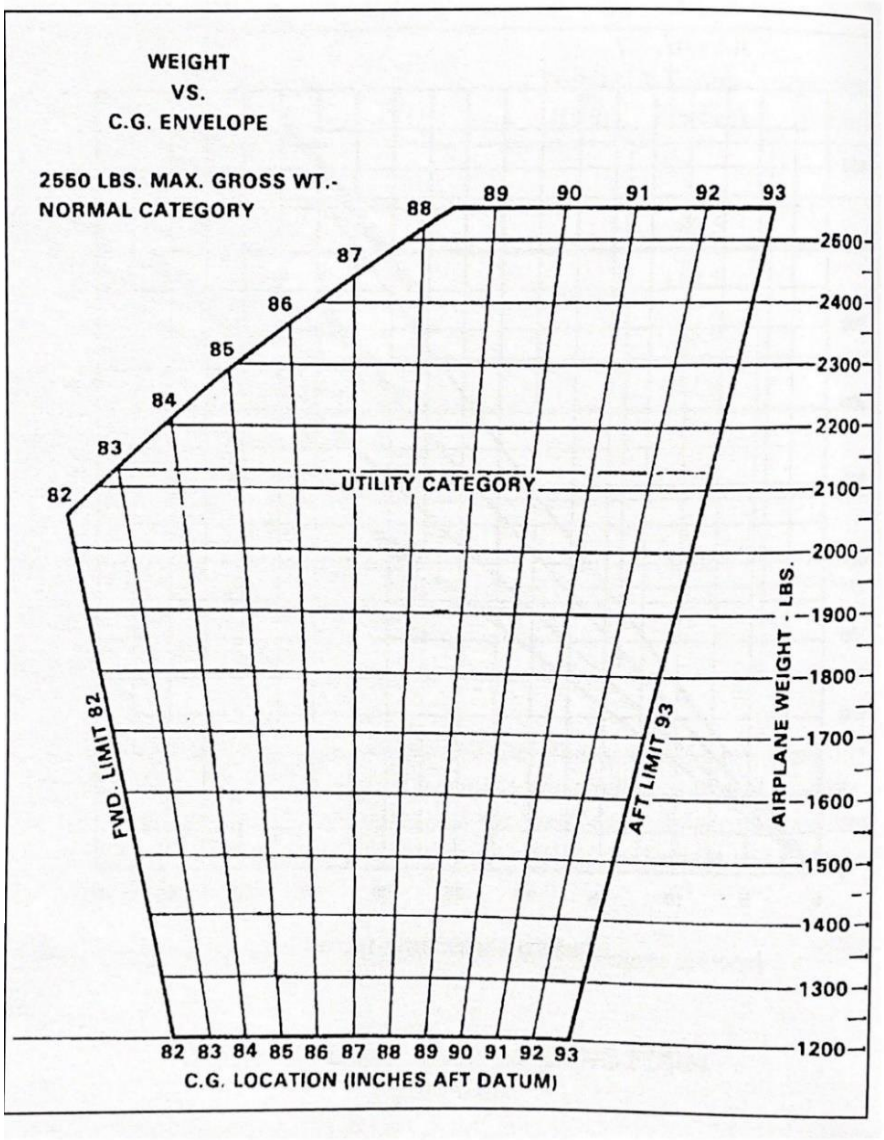
Passenger #2 Name: _____ Weight: _____

**Limitations**

| | |
|---|---|
| Maximum Ramp Weight | 2558 lbs |
| Maximum Takeoff Weight | 2550 lbs |
| Maximum Landing Weight | 2550 lbs |

**NAME:**_____ **DATE:** _____

**REQUIRED**: The takeoff weight and landing weight must be plotted on the diagram below.




**Important Weights**

Chocks = 1 lb
Airplane Blanket = 8 lbs
Cold Weather Kit = 15 lbs
Cross-Country Kit = 20 lbs
Survival Kit = 4 lbs

# FAR 91.103 – Preflight Action

## Weather

**Departure Weather**

Temp_____°C Dewpoint____°C Surface Winds_____° @_____kts

Crosswind Component_____kts Headwind Component_____kts

Barometric Pressure_____"Hg Pressure Altitude_____

Density Altitude_____

**Destination Weather (required for flights to another airport that isn't MKT)**

Temp_____°C Dewpoint_____°C Surface Winds_____° @_____kts

Crosswind Component_____kts Headwind Component_____kts

Barometric Pressure_____"Hg Pressure Altitude_____

Density Altitude_____

## Performance Calculations

Departure Runway Length_____ft Takeoff Weight_____ft

Arrival Runway Length_____ft Service Ceiling_____ft

Takeoff Distance: Ground Roll_____ft 50' Obs_____ft

Landing Distance: Ground Roll_____ft 50' Obs_____ft

## Passenger Approval

*This section is utilized if a passenger is not a North Star Aviation student. This form must be accompanied by a passenger waiver form. Appointments for aircraft rentals and passenger approval must be reserved at least 5 business days in advance to ensure an appointment can be scheduled on the day of the rental.*

The following passenger(s) is/are approved to accompany this flight:

_____

Chief/Assistant Chief Signature _____

## Certification

By signing below, I acknowledge the following:

1. The information on this form is true, accurate, and it was prepared for the specific conditions of my flight today.
2. I am on Lesson #_____, and I have reviewed the lesson objective, completion standards, reading/study materials, and all training items required to complete the lesson.
3. I have checked all NOTAMS for my route of flight.
4. IMSAFE
5. I am responsible for ensuring my flight is completed by the next maintenance event, and I have checked the deferred squawks binder.

Student Signature: _____ IP Signature: _____