

# Weight & Balance

Seminole: N443MK

PRACTICE USE ONLY	Weight	Arm	Moment
<b>Basic Empty Weight</b>	2676.3	87.0172	232884.0
Pilot/Copilot		80.5	
Rear Passengers		118.1	
Baggage Area (200 lbs max)		142.8	
<b>Zero Fuel Weight</b>			
Fuel Weight		95.0	
<b>Ramp Weight</b>			
Start / Taxi / Run-up	-16	95.0	-1520
<b>Takeoff Weight</b>			
Tail # Adjustment (if applicable)			
New Takeoff Weight (if applicable)			
Trip Fuel Burn		95.0	
Heater Fuel Burn (½ gallon per hour)		95.0	
<b>Landing Weight</b>			
Tail # Adjustment (if applicable)			
New Landing Weight (if applicable)			

**New Tail Number (if switched by dispatch):** N4 MK

## Persons on Board

PIC Name: \_\_\_\_\_ Weight: \_\_\_\_\_

Additional Pilot Name: \_\_\_\_\_ Weight: \_\_\_\_\_

Passenger #1 Name: \_\_\_\_\_ Weight: \_\_\_\_\_

Passenger #2 Name: \_\_\_\_\_ Weight: \_\_\_\_\_

Passenger  
Current?

## Limitations

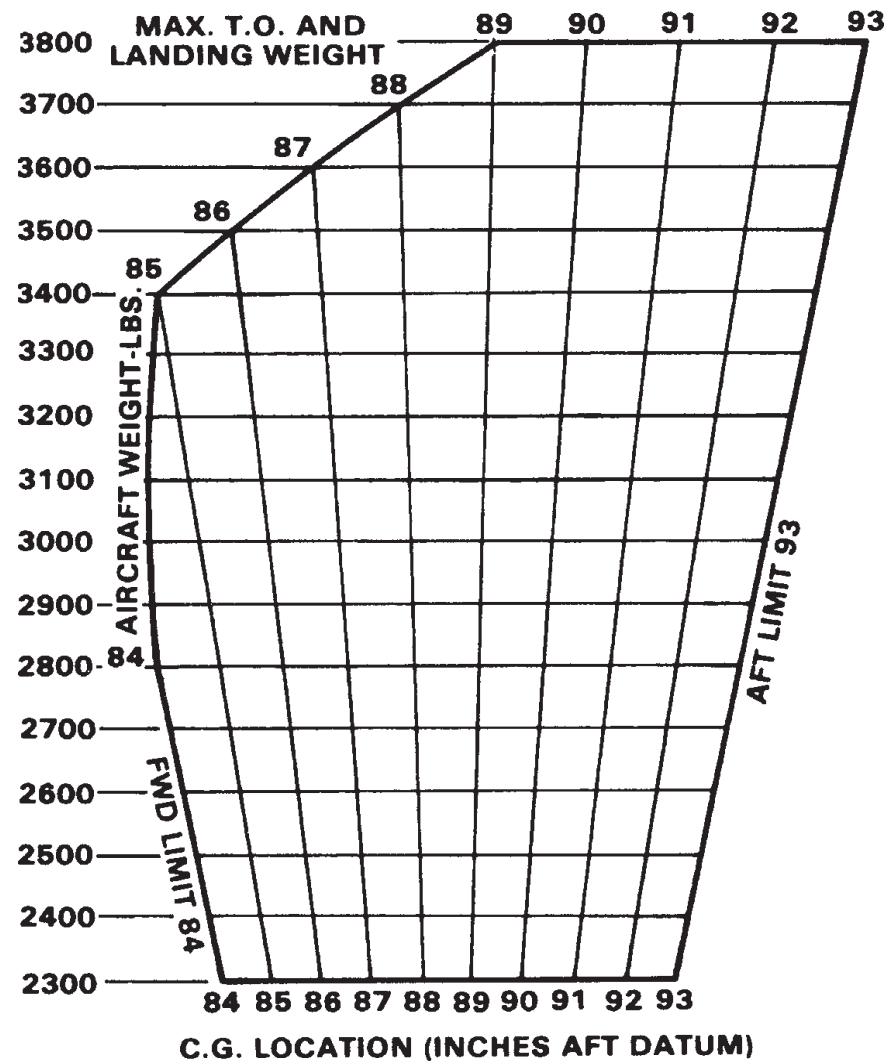
Maximum Ramp Weight 3816 lbs

Maximum Takeoff Weight 3800 lbs

Maximum Landing Weight 3800 lbs

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

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



## Important Weights

Chocks = 1 lb

Airplane Blanket = 16 lbs

Ballast = 65 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    Arrival Runway Length \_\_\_\_\_ ft  
Takeoff Weight \_\_\_\_\_ lbs    Accelerated/Stop Distance \_\_\_\_\_ ft  
Takeoff Distance: Ground Roll \_\_\_\_\_ ft    50' Obs \_\_\_\_\_ ft  
Landing Distance: Ground Roll \_\_\_\_\_ ft    50' Obs \_\_\_\_\_ ft  
Service Ceiling: Both Engines \_\_\_\_\_ ft    OEI \_\_\_\_\_ ft  
OEI Climb Performance \_\_\_\_\_ ft/min

## 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 approvals must be reserved at least 5 business days in advance to ensure an appointment can be scheduled on the day of the rental/lesson.*

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: \_\_\_\_\_