

Weight & Balance

Seminole: N451MK

PRACTICE USE ONLY	Weight	Arm	Moment
Basic Empty Weight	2669.3	86.13	229894.1
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	-16	95.0	-1520
Takeoff Weight			
Tail # Adjustment (if applicable)			
New Takeoff Weight (if applicable)			
Trip Fuel Burn		95.0	
Heater Fuel Burn (½ gallon per hour)		95.0	
Landing Weight			
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

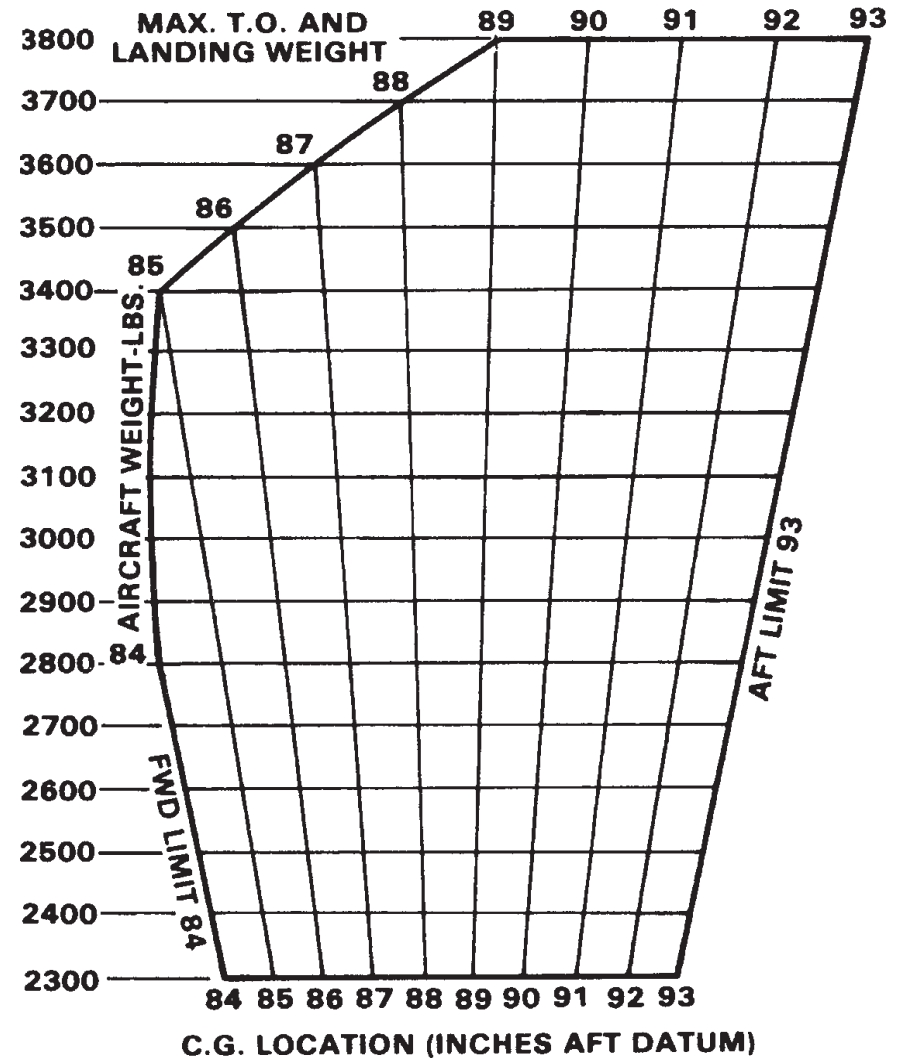
Maximum Ramp Weight 3816 lbs

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: _____