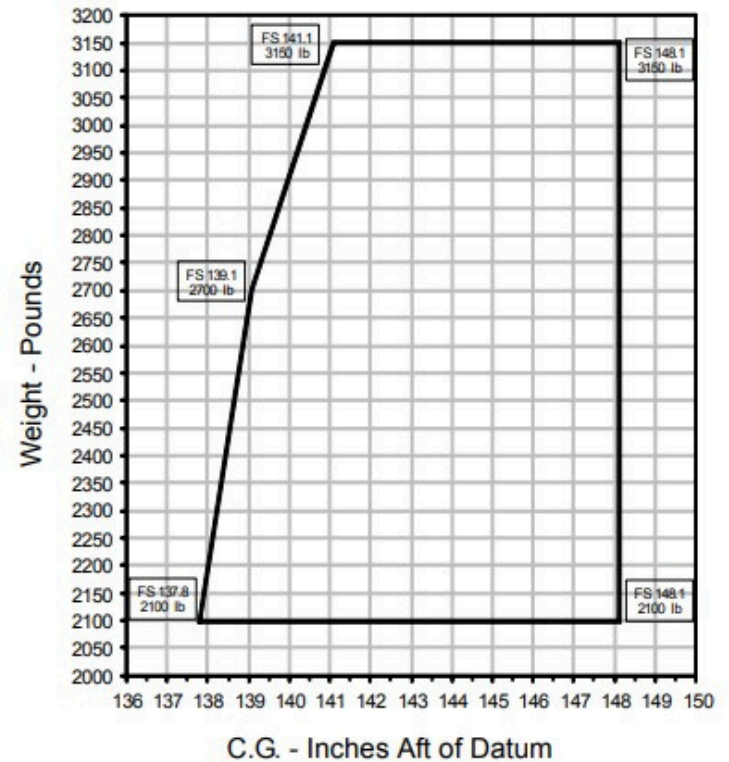


Completed by \_\_\_\_\_ Date \_\_\_\_\_ N-Number \_\_\_\_\_

<b>Weight x Arm = Moment</b>			
<b>Basic Empty Weight</b>			
<b>Front Pilots</b>	+		+
<b>Rear Passengers</b>	+		+
<b>Baggage</b>	+		+
<hr/>			
<b>Zero Fuel Weight</b>	=		<b>CG =</b>
<b>Usable Fuel</b>	+		+
<hr/>			
<b>Ramp Weight</b>	=		=
<b>Taxi Fuel</b>	-		-
<hr/>			
<b>Takeoff Weight</b>	=		<b>CG =</b>
<b>Fuel Burn</b>	-		-
<hr/>			
<b>Landing Weight</b>	=		<b>CG =</b>



## Formulas

- weight x arm = Moment
- total moment ÷ total weight = Center of Gravity (CG)
- 100LL (blue) fuel weight = 6 pounds
- (29.92 - altimeter setting) x 1000 + field elevation = Pressure Altitude
- (OAT - ISA temp) x 120 + pressure altitude = Density Altitude
- Maneuvering Speed =  $\sqrt{\left(\frac{\text{current weight}}{\text{max gross weight}}\right) \times \text{Va weight}^2}$

Pressure Altitude		Maneuvering Speed	
Departure Airport	Destination Airport	Takeoff	Landing
Density Altitude			
Departure Airport	Destination Airport		

## PILOT

### Documents

61.3

- Pilot Certificate
  - logbook/endorsement
- Medical Certificate
- Government Issued Photo ID
- Radio Operating License

### Inspections

- Illness
- Medication
- Stress
- Alcohol
- Fatigue
- Emotion

## AIRCRAFT

### Documents

- Airworthiness Certificate (91.203(a)(1))
- Registration Certificate (91.203(a)(2))  
Expiration Date \_\_\_\_\_
- Radio Station License (47 CFR 87.18)
- Operating Handbook (91.9(b))
- Weight & Balance (23.2620)
- Placards (91.9(a))
- External Data Plate (45.11)
- Compass Deviation Card (23.1547)

### Inoperative Equipment

91.213(d)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- MEL
  - TCDS/STC
  - Equipment list or KOEL
  - 91.205
  - ADs
  - Remove/ deactivate, placard, and record
  - PIC decision

### Inspections

- Airworthiness Directives (Part 39)  
AD# \_\_\_\_\_ Next Due \_\_\_\_\_
- AD# \_\_\_\_\_ Next Due \_\_\_\_\_
- AD# \_\_\_\_\_ Next Due \_\_\_\_\_
- AD# \_\_\_\_\_ Next Due \_\_\_\_\_
- Annual (91.409(a))  
Next Due \_\_\_\_\_
- VOR (91.171)  
Next Due \_\_\_\_\_
- 100 hour (91.409(b))  
Next Due \_\_\_\_\_
- Altimeter / Static (91.411)  
Next Due \_\_\_\_\_
- Transponder (91.413)  
Next Due \_\_\_\_\_
- ELT (91.207)  
Next Due \_\_\_\_\_  
Battery Due \_\_\_\_\_
- Progressive (91.409(c))  
Next Due \_\_\_\_\_
- Life-Limited Items (43.10)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## ENVIRONMENT

### NOTAMs

*Departure*

*Enroute*

*Destination*

### Weather

*Departure*

*Destination*

Wind \_\_\_\_\_  
Visibility \_\_\_\_\_  
Ceiling \_\_\_\_\_  
Temp/Dew Point \_\_\_\_\_

Wind \_\_\_\_\_  
Visibility \_\_\_\_\_  
Ceiling \_\_\_\_\_  
Temp/Dew Point \_\_\_\_\_

### Known ATC Delays

\_\_\_\_\_

### Runway Lengths

*Departure*

*Destination*

### Alternatives Available

\_\_\_\_\_

### Fuel Required

*FAA Minimum* \_\_\_\_\_ *Personal Minimum* \_\_\_\_\_

### Takeoff and Landing Distances

*Ground Roll*

*50 ft Obstacle*