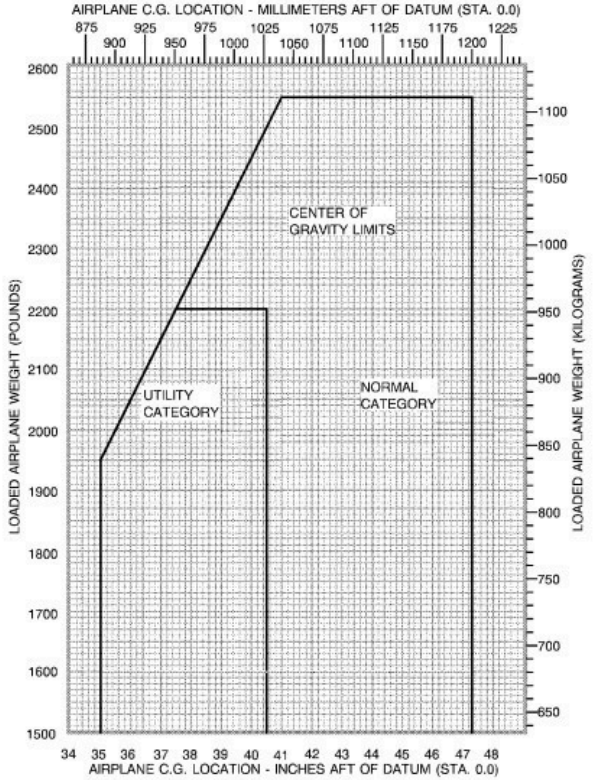
C172S

Completed by _____ Date _____ N-Number _____

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



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 = $\sqrt{\left(\frac{\text{current weight}}{\text{max gross weight}}\right)}$ x max gross Va weight

Pressure Altitude

Departure Airport	Destination Airport

Density Altitude

Departure Airport	Destination Airport

Maneuvering Speed

Takeoff	Landing

PILOT

Documents

61.3

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

Inspections

- ❑ **I**llness
- ❑ **M**edication
- ❑ **S**tress
- ❑ **A**lcohol
- ❑ **F**atigue
- ❑ **E**motion

AIRCRAFT

Documents

- ❑ **A**irworthiness Certificate (91.203(a)(1))
- ❑ **R**egistration Certificate (91.203(a)(2))
  Expiration Date _____
- ❑ Radio Station License (47 CFR 87.18)
- ❑ **O**perating Handbook (91.9(b))
- ❑ **W**eight & Balance (23.2620)
- ❑ **P**lacards (91.9(a))
- ❑ **E**xternal Data Plate (45.11)
- ❑ **C**ompass 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

- ❑ **A**irworthiness Directives (Part 39)
  AD#_____ Next Due _____
  AD#_____ Next Due _____
  AD#_____ Next Due _____
  AD#_____ Next Due _____
- ❑ **A**nnual (91.409(a))
  Next Due _____
- ❑ **V**OR (91.171)
  Next Due _____
- ❑ **1**00 hour (91.409(b))
  Next Due _____
- ❑ **A**ltimeter / Static (91.411)
  Next Due _____
- ❑ **T**ransponder (91.413)
  Next Due _____
- ❑ **E**LT (91.207)
  Next Due _____
  Battery Due _____
- ❑ Progressive (91.409(c))
  Next Due _____
- ❑ Life-Limited Items (43.10)

_____

_____

_____

_____

ENVIRONMENT

- ❑ **N**OTAMs

Departure	*Enroute*	*Destination*

- ❑ **W**eather

Departure	*Destination*
Wind _____	Wind _____
Visibility _____	Visibility _____
Ceiling _____	Ceiling _____
Temp/Dew Point _____	Temp/Dew Point _____

- ❑ **K**nown ATC Delays

_____

_____

- ❑ **R**unway Lengths

Departure	*Destination*

- ❑ **A**lternatives Available

_____

_____

- ❑ **F**uel Required
  FAA Minimum _____ *Personal Minimum* _____
- ❑ **T**akeoff and Landing Distances

Ground Roll	*50 ft Obstacle*