



# C172S Preflight Sheet

## WEIGHT AND BALANCE

ITEM	(MAX)	WEIGHT	ARM	MOMENT
<b>B.E.W.</b>				
Pilot and Passenger			37.0	
Rear Passenger(s)			73.0	
Baggage Area 1 (120 lbs)			95.0	
Baggage Area 2 (50 lbs)			123.0	
<b>Zero Fuel Weight</b>				
Ramp Fuel (318 lbs)			48.0	
Ramp Wt. (2558 lbs)				
Taxi Fuel		-8.4	48.0	-403.2
<b>G. T. W. (2550 lbs)</b>				
Trip Fuel			48.0	
<b>G.L.W.</b>				

Z.F.W. CG \_\_\_\_\_ G.T.W. CG \_\_\_\_\_ G.L.W. CG \_\_\_\_\_

V<sub>A</sub> \_\_\_\_\_ (105 kts. @ 2550 lbs. to 90 kts. @1900lbs.)  
 -2.31 kts./100 lbs.

### TAKEOFF DATA

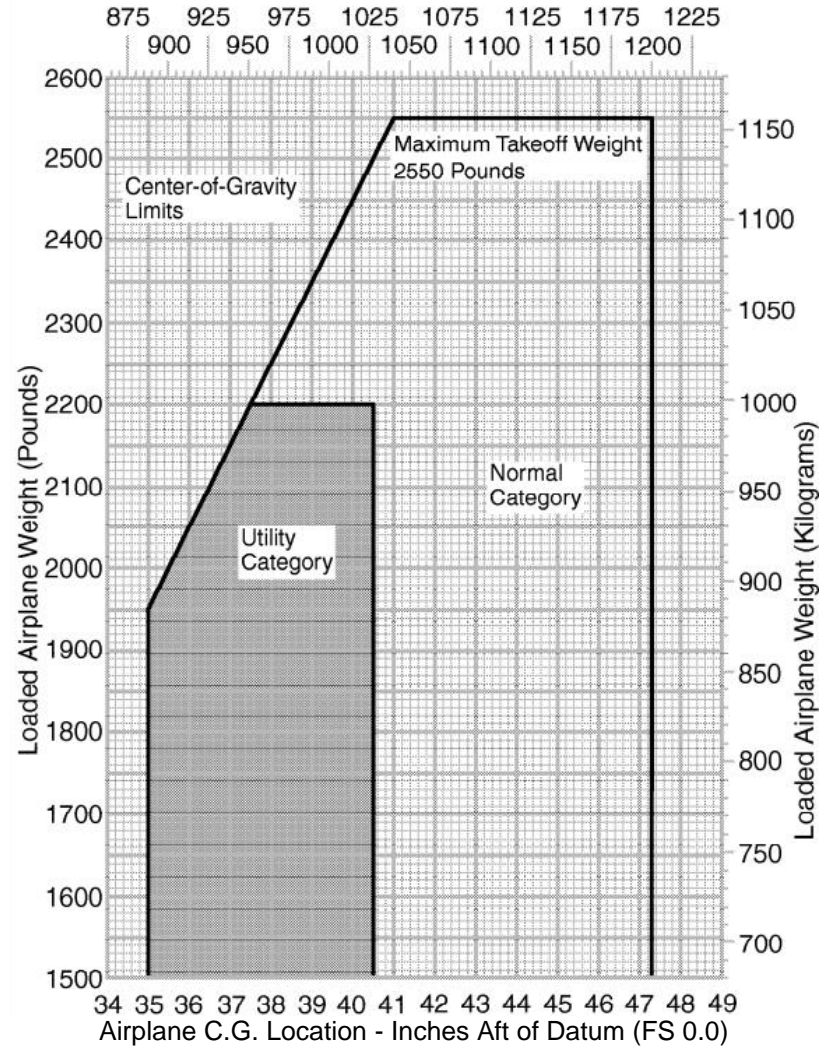
Ground Roll \_\_\_\_\_ ft.  
 Dist. Over 50' Obstacle \_\_\_\_\_ ft.  
 V<sub>R</sub> \_\_\_\_\_ KIAS  
 V<sub>X</sub> \_\_\_\_\_ KIAS  
 V<sub>Y</sub> \_\_\_\_\_ KIAS  
 Accelerate-Stop Distance \_\_\_\_\_ ft.

### LANDING DATA

Ground Roll \_\_\_\_\_ ft.  
 Dist. Over 50' Obstacle \_\_\_\_\_ ft.  
 Approach Speed \_\_\_\_\_ KIAS

## CENTER-OF-GRAVITY LIMITS

B4078 Airplane C.G. Location - Millimeters Aft of Datum (FS 0.0)



	2132W	1006V	393ES	109TJ	61942	623KW	291HW	9362M	1129C	536TH
<b>W</b>	1701.7	1706.5	1649.2	1683.3	1717.2	1711.5	1710.6	1711.5	1715.3	1718.5
<b>M</b>	69903.7	70115.9	65266.7	68052.2	71208.9	71302.1	71260.4	71301.1	72674.1	71444.0

## PREFLIGHT ITEMS

- Pilot Cert / Gov Photo ID / Medical
- Endorsements (Solo Students)
- Solo Activity Sheet (Solo Students)
- Aircraft Documents (SPARROW)
- Maintenance Inspections (AVIATES)
- Aircraft Checklist
- Weather Briefing

## CREW BRIEFING

- Airport Diagram (Hotspots)
- ATIS / AWOS / ASOS / FSS

- Runways in use
- Crosswind Component  
Headwind \_\_\_\_ kts / Tailwind \_\_\_\_ kts
- Takeoff / Accelerate-Stop Distance
- Departure / Taxi Clearance:

- $V_A$
- Who is P-I-C / Acting P-I-C?
- Positive Exchange of Flight Controls
- Sterile Cockpit
- **Safe Attitude**

## PASSENGER BRIEFING

- Seatbelts
- Air Vents
- Fire Extinguisher
- Exit Use
- Survival Kit / Flotation Gear
- Traffic Watch

## PRE-TAKEOFF BRIEFING

- Runway Available / Runway Required
- Obstacles on Departure
- Wake Turbulence
- Windssock / Crosswind Control Position

## EMERGENCY PLAN OF ACTION

Engine Failure or System Malfunction:

- A) Prior to rotation.
- B) After rotation, runway remaining.
- C) After rotation, no runway remaining or gear in transit.

Briefed Safe Altitude \_\_\_\_\_ ft.  
**Best Glide Airspeed** \_\_\_\_\_ KIAS