

AIRCRAFT WEIGHT & BALANCE (CESSNA)	 Pacific Flying Club www.PacificFlying.com	PFC-QA-104
---	---	-------------------

Aircraft Type:	Registration:
-----------------------	----------------------

LOADING AREA	WEIGHT (LBS)	ARM	MOMENT
Empty weight			
Pilot and passenger			
Passengers (rear)			
Baggage			
Total (Zero Fuel Weight)			
Useable fuel (6.0 lbs/us gal)			
Total takeoff Weight			
Enroute fuel burn			
Total landing Weight			

WEIGHTS

Max Gross Weights		Standard Passenger Weights		
C152	1670 Lbs	Summer (15 Mar – 14 Dec)		Winter (15 Dec – 14 Mar)
C172P	2400 Lbs	206 Lbs	Male/Gender X (>12 Yrs)	212 Lbs
C172R	2450 Lbs	172 Lbs	Female (>12 Yrs)	178 Lbs
C172SP	2550 Lbs	75 Lbs	Child (2-11 Yrs)	75 Lbs
		30 Lbs	*Infant (<2 Yrs)	30 Lbs
		*Add in where infant exceeds 30 Lbs		
		Reduce weight by 13 Lbs if no carry-on baggage for male/female		
		Actual Weights should be used when possible		

Vref Calculation

Published Vref at Max Gross Wt (POH): _____ KIAS

The purpose of the Vref calculation is to find the calm wind final approach speed adjusted for the lower landing weight.

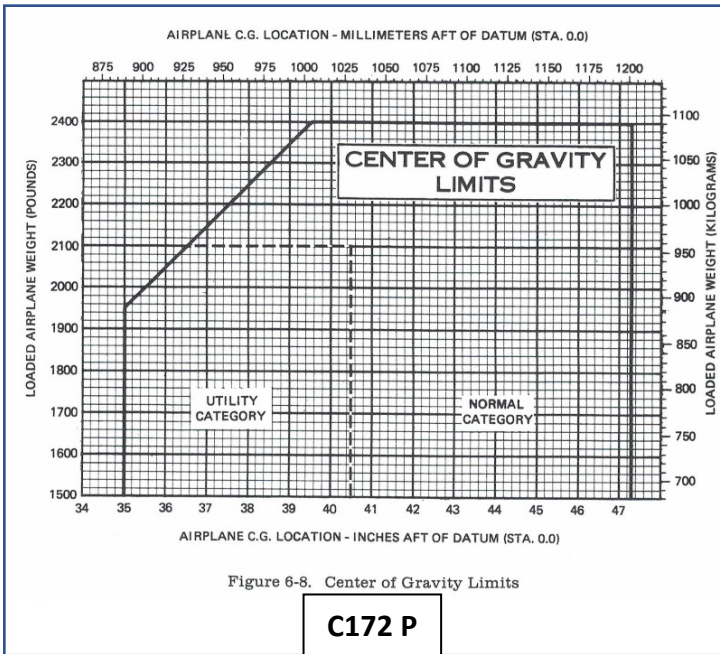
1. Vso at Max Gross Wt & Forward C of G _____ x 1.3 = _____ Vref KCAS Calm wind at Max Gross Wt.

2. Vref at Max Gross Wt _____ x $\sqrt{\frac{(Landing\ Wt)}{(Max\ Gross\ Wt)}}$ = _____ Vref KCAS Calm wind at Landing Wt.

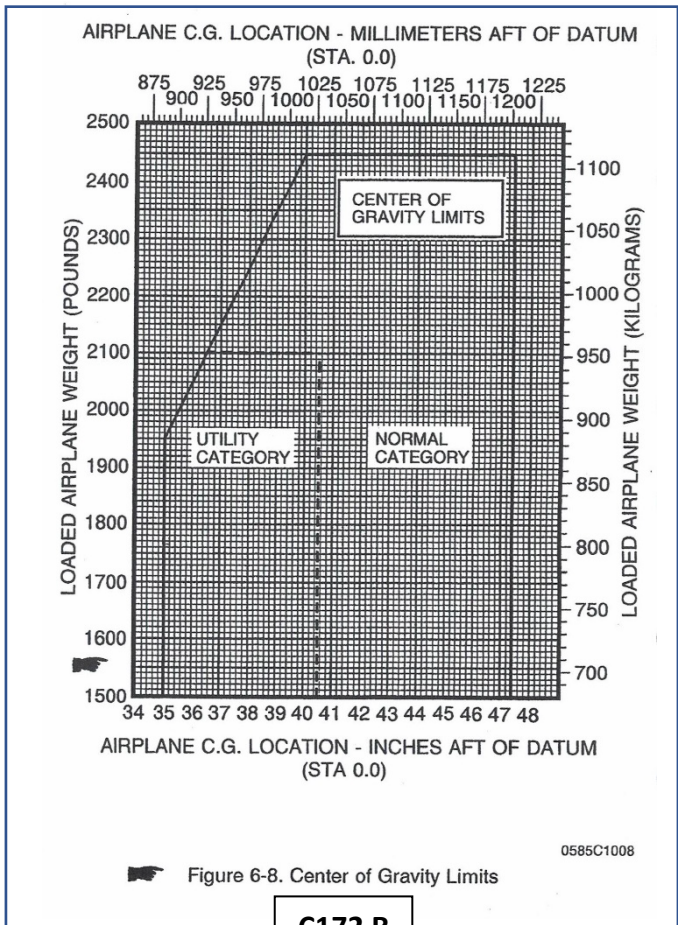
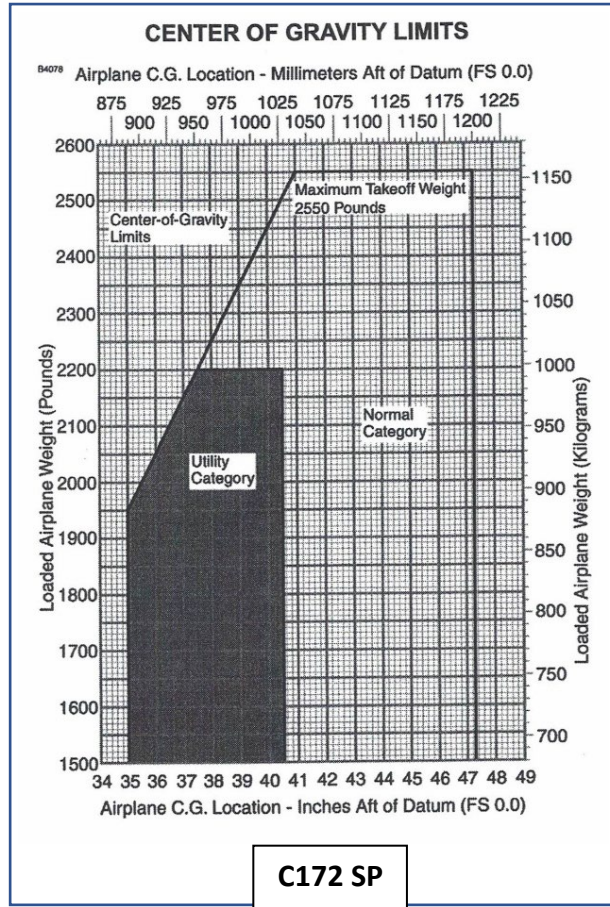
3. Using the POH/AFM, convert the adjusted Vref KCAS _____ to Vref KIAS _____

NOTE 1: Convert KIAS to and from KCAS by using the POH/AFM airspeed calibration chart.

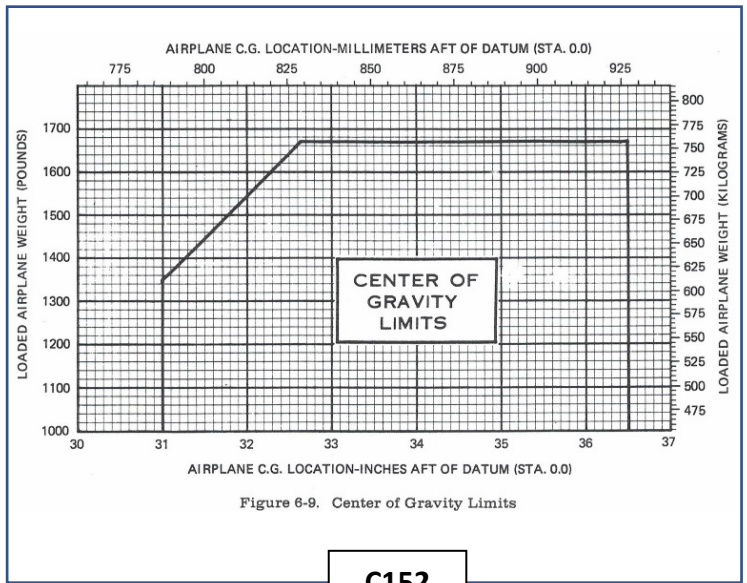
NOTE 2: Always apply KCAS to the above formula. In most cases, applying indicated airspeed (KIAS) to the formula will result in a speed that is too slow.



C172 P



C172 R



C152