

AIRCRAFT WEIGHT AND BALANCE (PA34-200)	 Pacific Flying Club <small>www.PacificFlying.com</small> 	PFC-QA-103
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Aircraft Type: PA34-200 Seneca	Registration:
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ITEM	WEIGHT (LBS)	ARM (In-Aft)	MOMENT (In-Lbs)
Standard Empty Weight (Unusable Fuel and Full Oil Included)			
Pilot and Front Passenger **		85.5	
Passengers (rear seats) **		155.7	
Baggage Forward (Max 100 Lbs)		22.5	
Baggage Aft (Max 100 Lbs)		178.7	
Zero Fuel Weight (4000 Lbs Max)			
Total Fuel (Mains = 93 Total) (Gallons x 6.0 lbs/US gal)		93.6	
Fuel for Start, Taxi, and Run-Up (2.5 Gallons x 6.0 lbs/US Gal)	-15	93.6	-1404
Takeoff Weight (4200 Lbs Max)			
Trip fuel burn (Gals x 6 Lbs/US Gal)		93.6	
Landing Weight (4000 Lbs Max)			

IAS Vref at Landing Weight	Air time flown to get to landing weight _____ Hrs
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** See Over for Standard Passenger Weights

Vref Calculation

Vso	PA34	Vso x 1.3 = A _____
0 Flap	76	
40 Flap	69	

Landing Weight

Square Root (v)	$\sqrt{\frac{\text{Landing Weight}}{\text{Gross Weight}}} = \text{B} \text{ _____}$
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Gross Weight

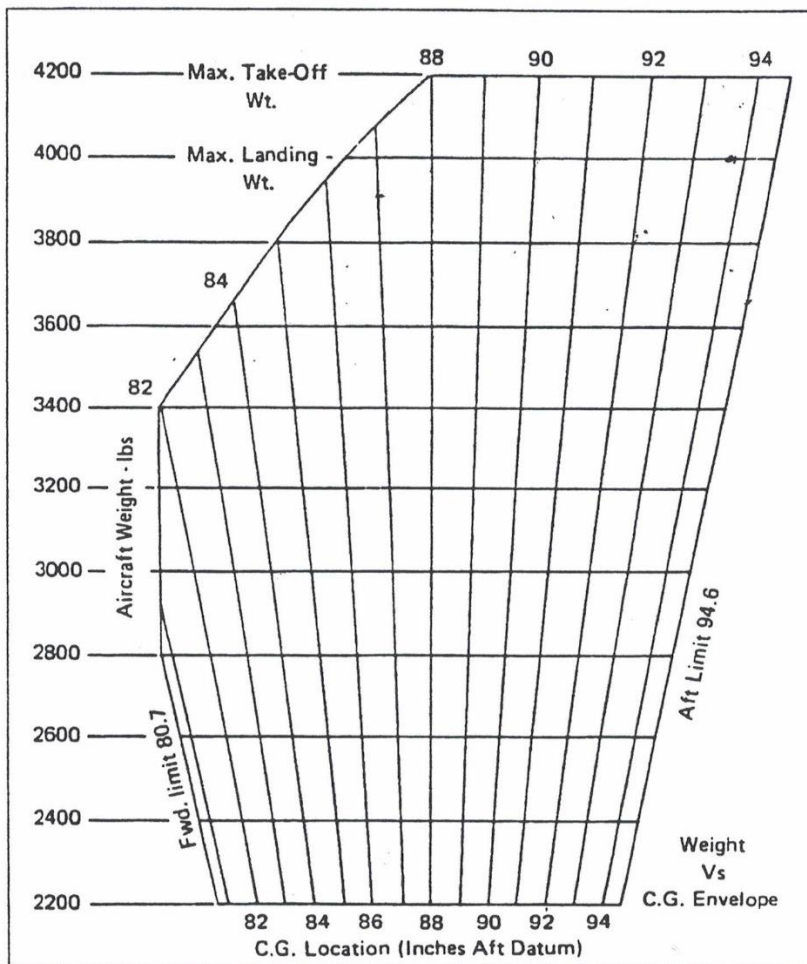
0 Flap				A x B = Vref CAS _____
IAS	70	80	90	
CAS	72	82	92	
40 Flap				
IAS	70	80	90	
CAS	70	80	90	



STANDARD WEIGHTS (Actual Weights Should be Used When Possible):

Standard Passenger Weights		
Summer (15 Mar – 14 Dec)		Winter (15 Dec – 14 Mar)
206 Lbs	Male/Gender X (>12 Yrs)	212 Lbs
172 Lbs	Female (>12 Yrs)	178 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		

WEIGHT VERSUS C OF G ENVELOPE



Moment Change due to retracting Landing Gear = 32 in-lbs.