

## C90B WEIGHT & BALANCE/PERFORMANCE

V <sub>MC</sub>	V <sub>SO</sub>	V <sub>1</sub> / V <sub>R</sub> / V <sub>2</sub>	V <sub>Y</sub>	V <sub>YSE</sub>	V <sub>A</sub>	V <sub>FE</sub>		V <sub>MO</sub>
80	78	Computed	112	108	169	Aprch: 184	Full: 140	226

V <sub>REF</sub>		V <sub>LO</sub>		V <sub>GLIDE</sub>	Emer. Descent	Sustained Ice
Flaps up	Flaps 100%	Up	Down	125	182	≥140
115	101	163	182			

### WEIGHT AND BALANCE

ITEM	WEIGHT	MOMENT / 100
Basic Empty Weight (N370U)	<b>6845.27</b>	<b>10332.93</b>
Pilot and Co-Pilot		
Passengers—FWD Club Seats		
Passengers—AFT Club Seats		
PAX—Aisle Facing Storage Seat		
Passenger—Lavatory Seat		
Rear Baggage Compartment		
FWD Cabinet		
AFT Cabinet		
<b>Equals Zero Fuel Weight</b>		
<b>*Determine Max T/off weight to achieve Positive Single Engine Climb @ Lift-off = _____ Lbs.</b>		
Fuel [384 gallons Max. Usable]		
<b>Equals Ramp Weight (10,160 lbs)</b>		
(Start / Taxi Fuel Burn-off)	<b>-60.0</b>	<b>-93</b>
<b>Equals Take-off Weight</b>		
(Fuel Consumed in Flight)	-	
Total Fuel Remaining		
Zero Fuel Weight	+	+
<b>Equals Landing Weight</b>		
Maximum Take-off Weight: <b>10,100 lbs.</b> → <input type="checkbox"/> Forward C.G. Limit: <b>145.0</b> Aft C.G. Limit: <b>160.0</b> Maximum Landing Weight: <b>9,600 lbs.</b> <b>*Verify that both Take off and Landing Weights and Moments are Within Limits (Use POH)</b>		

<u>Surface Weather</u>	
Wind	_____
Visibility	_____
Sky Condition	_____
Temperature	_____
Altimeter	_____
<b>Compute</b>	
Pressure Alt	_____
Density Alt	_____
X-Wind	_____
Head Wind	_____

<u>Additional Weather</u>	
6000'	_____
9000'	_____
12000'	_____
18000'	_____
24000'	_____
Interpolate for Cruise Alt.	
_____	
ISA conversion @ Cruise	
_____	

<u>Surface Weather @ Destination</u>	
Wind	_____
Visibility	_____
Sky Condition	_____
Temperature	_____
Altimeter	_____
<b>Fuel = 6.7 lbs. / Gal.</b>	
<b>Temperature Conversion:</b>	
C = (F - 32) X 5/9	
F = (1.8 X C) + 32	

### PERFORMANCE

Accelerated Stop Distance	
Accelerated Go Distance	
Takeoff Distance	
V <sub>1</sub> / V <sub>R</sub> Speed	
M.E. Climb Gradient/V2	
Rate of Climb Two Engines	
S.E. Climb Gradient	
Rate of Climb Single Engine	
S.E. Absolute Ceiling	

Single engine Service Ceiling			
Rate of Climb @ TPA			
<b>To Climb</b>	Time:	Fuel:	Dist:
<b>Cruise Power (Select POWER or RANGE)</b>			
Torque:	Fuel/Lbs/Hr:	TAS:	
<b>One Engine Inoperative Max. Cruise Power</b>			
Torque:	Fuel/Lbs/Hr:	TAS:	
<b>To Descend</b>	Time:	Fuel:	Dist:
Landing Distance			