

AIRCRAFT CENTER OF GRAVITY CALCULATIONS

Weight & Balance and Fuel Calculations

We Deliver
Any Aircraft
Anywhere
Anytime

CESSNA CARAVAN C208B
WEIGHT and BALANCE /
LOADPLAN

Aircraft: 208 Amphib SN: 208B0938 Dep. Date: 6/21/2020 Flight No: PI

Captain: Joe Schmoe Co-Pilot: Moe Schmoe

Orig: KICT Dest: LEMA

Fuel on Board: Calc 2000 Expected Fuel Use: Calc 1000

CARGO in Pounds

Seats 3/4	350.00 lbs.	Seats 5/6	0.00 lbs.	Seats 7/8	0.00 lbs.
Seat 9	175.00 lbs.	Seat 10	175.00 lbs.	Baggage	0.00 lbs.

Total Cargo in Lbs (not to exceed 3400): 700.00

Take Off Weight (not to exceed 8750 lbs): 7844.00

Next Exit








Main screen with dropdowns for most common aircraft and airports, fuel weight calculations, passenger/cargo weights, with an option to convert to metric weight. This package was developed in Visual Basic 6 and complied to an .exe file that can be downloaded here.

208B Seating

We Deliver
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CESSNA CARAVAN 208B
PASSENGER SEATING
ARRANGEMENT

Choose Aircraft Seating Option:


						
2 Place Seating (Crew Only)	10 Place Seating (Commuter)	10 Place Seating (Utility)	10/11 Place Seating (Commuter)	12 Place Seating (Utility)	13 Place Seating (Commuter)	14 Place Seating (Commuter)

Done Clear Exit

Custom graphics to show all available seating arrangements for that aircraft model.

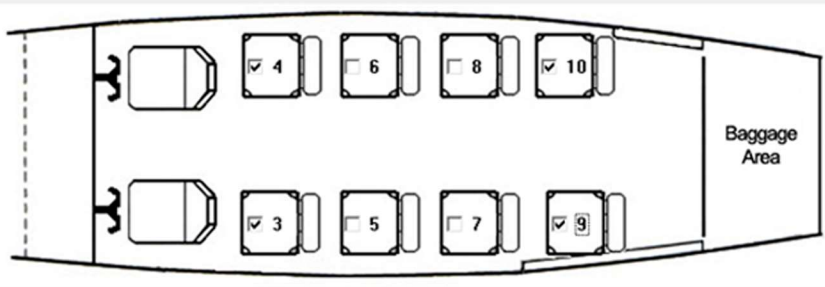
208A Seating

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**CESSNA 208 AMPHIB
PASSENGER SEATING
ARRANGEMENT**

Where will passengers be seated?



All Passenger Weights are 175 pounds by default. This can be changed on Main Form after clicking "Done".

Done Clear Exit

Custom graphics and built-in options to choose which seats will be occupied.

Weight and Balance

CESSNA 208 AMPHIB WEIGHT and BALANCE/LOADPLAN

Fit No: **PI**
Date: **6/21/2020**
Origin: **KICT**
Dest: **LEMA**
AC Reg: **208 Amphib**

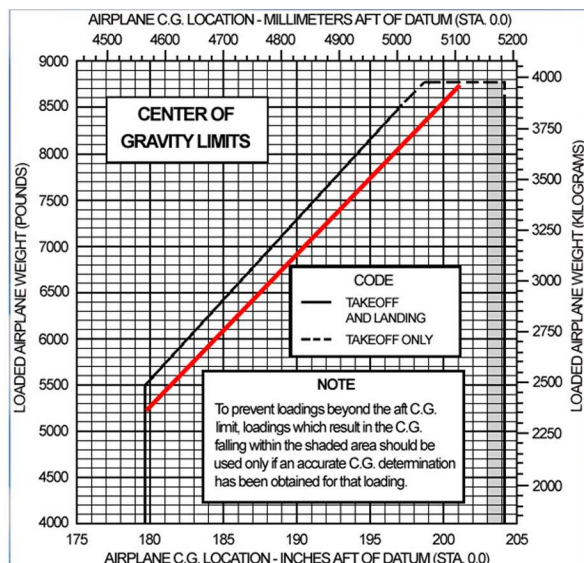
Center of Gravity Calculations				
	Weight	ARM	Moment	Max. Load
BEW	4839.00	180.93	875520.27	
Crew	340.00	135.50	46070.00	
Extra Crew	0.00	168.40	0.00	
Seats 3/4	50.00	168.40	8420.00	1780 lbs
Seats 5/6	0.00	194.80	0.00	3100 lbs
Seats 7/8	0.00	221.00	0.00	1400 lbs
Seat 9	175.00	246.50	43137.50	1380 lbs
Seat 10	175.00	271.50	47512.50	1270 lbs
Baggage	0.00	296.00	0.00	320 lbs
ZFW	5579.00	182.95	1020660.27	
TO Fuel	1465.00		306556.51	2224 lbs
TO WT	7044.00	188.42	1327216.78	8750 lbs

Gross Weight Computation		
	Weight	Max Wt lbs
BEW	4839.00	
Crew	340.00	
Extra Crew	0.00	
BOW	5179.00	
Cargo	400.00	3400
ZFW	5579.00	
Ramp Fuel	1500.00	2224
Ramp Wt	7079.00	8785
Taxi Fuel	35.00	
TOW	7044.00	8750
Trip Fuel	1000.00	
LW	6044.00	8500
Underload before LMC		1706.00 lbs

Calculate Changes Clear Changes

Last Minute Change			
Destination	Comp	+/-	Weight in Pounds
LEMA		+ -	
LEMA		+ -	

Calculations shown with inputs for last minute changes.



Finally, after performing scientific calculations that included up to 15 decimal points and verifying the results were within limits, the center of gravity throughout the entire flight was plotted and printed to a template identical to the required FAA form. The client had previously gathered data and performed the calculations manually then filled out the forms by hand, which could take the better part of a day.