

Aircraft Weight and Balance Form

Aircraft	Grega GN-1	Date	23/10/2004
Registration	N327BC	Serial No.	# 2523
Owner	Bert Conoly	Builder	Bert Conoly
Datum	Leading Edge of Top Wing	Convention	Moments aft of datum are positive
Leveling	Top Longeron		Moments forward of datum are negative

Item	Scale Reading	Tare	Net Weight	Arm	Moment
Left Main	336	0	336	4.25	1428
Right Main	315	0	315	4.25	1338.75
Tail Wheel	38	2	36	163.75	5895
Less Oil (4 qts @ 2 lbs)			-8	-26.75	214
Less Ballast			0	0	0
Less Equipment			0	0	0
Less Fuel (2 gals @ 6 lbs)			-12	-3.75	45
	689		667		8920.75
Empty Weight C.G. Location =		EWCG=		13.4 inches aft of datum	

Calculating maximum rearward CG			
	Weight	Arm	Moment
A/C Empty Weight	667	13.4	8920.75
Oil	6	-26.75	-160.5 3.0 qts at 2 pounds
Fuel (app 30 min reserve)	12	-3.75	-45 2 gals at 6.0 lbs
Pilot	175	48.75	8531.25
Passenger	175	21	3675
Misc	0	0	0
	1035		20921.5
Maximum rearward CG is		CGR = 20.2 in. aft of datum	

Calculating maximum foreward CG			
	Weight	Arm	Moment
A/C Empty Weight	667	13.4	8920.75
Oil	8	-26.75	-214 4.0 qts at 2 lb per qt
Fuel	72	-3.75	-270 12 gals at 6.0 lbs
Pilot	175	48.75	8531.25
Passenger	0	21	0
Misc	0	0	0
	922		16968
Maximum foreward CG is		CGF = 18.4 in. aft of datum	

Notes:

No accessories or additional equipment was installed at the time of weighing.
 These weight and balance limits fall within the designer's recommended range.
 Aircraft weighed by Bert Conoly on 10/23/04.