Weight and Balance

Date:	12/31/2007
Registration No:	N769RV
Builder:	Hamilton, Gary L
Model	Vans Aircraft RV-7A
Serial No.	70371
Datum:	Datum point: 70 inches forward of wing leading edge.
Gross Weight:	1800 Lb
C.G. Range:	78.7 - 86.82 inches aft of Datum

Empty Weight / CG	**Wt (Lb.)**	**Arm (in.)**	**Moment (in.lb.)**
Left Wheel	428	94.3	40339.0
Right Wheel	411	94.3	38736.8
Nose wheel	264	38.8	10245.8
Empty Wt.	1103		89321.6
Empty CG.		81.0	
Most Aft weight / CG			
Aircraft Empty	1103		89321.6
Front Seats	340	97.5	33143.2
Baggage	100	126.8	12678.0
Fuel (42 gal x6)	252	80.0	20160.0
Weight	1795		155302.8
CG		86.5	
Most Forward /CG			
Aircraft Empty	1103		89321.6
Front Seats	340	97.5	33143.2
Baggage	0	126.8	0.0
Fuel (3 gal x6)	18	80.0	1440.0
Weight	1461		123904.8
CG		84.8	
Flight Test Weight /CG			
Aircraft Empty	1103		89321.6
Front Seats	170	97.5	16571.6
Baggage	5	126.8	633.9
Fuel (20 gal x6)	180	80.0	14400.0
Weight	1458		120927.1
CG		82.9	

Notes:
Most forward and most aft CG limits are calculated using the FAA standard pilot and passenger wieght of 170 lbs.
All weights and moments + (positive) from Datum.
Design Aft Aerobatic Max Weight & CG limit 1600 lb and 84.5 inches
Aircraft weighed in level flight attitude.