

Calculating Empty Weight Data

Main Wheel Data	Weight (lbs)	Arm (inch)	Moment
Wheel distance from Datum			
Left Wheel weight	393	91.88	36,108.84
Right Wheel weight	401.6	91.88	36,899.01
Calculated main wheel weight/moment	794.6	91.88	73,007.85

Tail/nose Wheel Data			
Wheel distance from datum		34.5	
Wheel weight	228.6	34.5	7,886.70
Calculated wheel weight/moment	228.6	34.5	7,886.70

Aircraft total Weight/moment	1023.2		80,894.55
Empty Aircraft CG		79.0603479	

Final CG Calculations

Max W/B

	Weight	Arm	Moment
Aircraft empty weight	1023.2	79.0603479	80,894.55
Pilot weight	190	92.7	17,613.00
Co-pilot weight	140	92.7	12,978.00
Fuel weight @ 7.0 lbs/gal (38 gal)	266	76.75	20,415.50
Baggage weight	100	122	12,200.00
Back Seat	0	0	-
Extra weight			-
Extra weight			-
Extra weight			-
Extra weight			-
Extra weight			-
Extra weight			-
Total aircraft weight/moment	1719.2		144,101.05

Total Aircraft CG		83.8186645	
Air Craft C/G limits	77.95		84.84

Vans RV9A
N194KW