

N709CH - Weight & Balance Calculation

Description	Weight	Arm	Moment
Basic Empty Weight	3,218.00	138.40	445345
Pilot and Front Passenger	380.00	135.50	51490
Passengers (Center Seats)	111.00	177.00	19647
Passengers (Rear Seats)	270.00	218.75	59062.5
Fuel (140 Gallon Max Usable Wing)(6.7 lbs/gal)	938.00	150.31	140990.78
Fuel (11.1 Gal Max Usable Header Tank)	74.37	88.60	6589.182
Baggage (Forward) (30 Lb. Limit)	0.00	88.60	0
Baggage (Aft) (100 Lb. Limit)	97.00	248.23	24078.31
Ramp Weight	5,088.37	146.85	747202.77
Diff from Max Ramp Weight (4,358 lbs - s/n 4636196 & up)	730.37		
Fuel Allowance for Engine Start, Taxi, & Runup	-18.00	150.31	-2706
Takeoff Weight	5,070.37	146.83	744496.77
Diff from Max Takeoff Weight (4,340 lbs - s/n 4636196 & up)	730.37		
Fuel Burn (Climb)	93.80	150.31	14099.08
Fuel Burn (Cruise)	487.72	150.31	73308.49
Weight at Time of Accident	4,488.85	146.38	657089.20

Pilot Boll	170
Pilot Laquidara	210
Pass. Boll	150
Pass. Laquidara	120
Bag #1	28
Bag #2	24
Bag #3	17
Bag #4	8
Bag #5	4
A/C records	16
Publications bag	13
Loose books	10
Bag with \$	8
Pets and carrier	80
Fuel load in gallons (wing)	140
Fuel load in lbs	938

128

OAT @ Naples = 30° C	
Fuel to climb SL to FL270 (gallons)	14
Fuel to climb SL to FL270 (lbs)	93.8
Time arrive at FL270	11:28
Time departed level flight	1:30
Total time at FL270	2:02
Fuel burn at FL270 (gal/hr) (Max Torque at ISA)	35.8
Total fuel used at FL270 (gals)	72.79
Total fuel used at FL270 (lbs)	487.72

2.03