

Kg

## Mass & Balance Sheet and Performance Calculations for DA42-NG Rev 2.3

FLIGHT ACADEMY															
Date:	Tail Number:				_ Callsign:	Callsign: Route:									
		Mass (Kg)	Lever a	rm (m)	Mor	ment (Kg/m)				Cont	or of Oro	vity Dociti	on linl		
Emp	ty Mass					92	93		94	er of Gravity Position [in] 95 96 97 98 Flight					
Front Seats			2.300								1	If MÄM 42	-678 is Carı		Mass
Rear Seats		3.250				2000								- [lb]	
Nose Baggage		0.600				1950								4300	
Cabin Baggage		3.890				1900				/				4100	
Baggage Extension		4.540				ラ <sup>1850</sup> シ <sub>1800</sub>								_ +100	
De-Icing Fluid		1.0	00			<u> </u>								3900	
Zero Fu	el Mass						8 1750 ∑								_
Main Fuel		2.630				1800 Hight Wass 1750 1700 1650						<del>                                      </del>		3700	
Aux Fuel			3.2	00											-
T	Taxi Fuel - <b>1.28</b>		2.630		- 3.366		1600								3500
Takeo	Takeoff Mass						1550								-
Trip Fuel Used (Main) -		-	- 2.630		-		1500								3300
Trip Fuel Used (Aux)		-	- 3.200		-		1450	2.35		2.40	)	2.45		2.50	4
Landing Mass									(			Position	[m]		
1USC	G = 3.785L	1USG JET-A1	= 3.18Kg N	Main - 159Kg	Aux ·	- 84Kg									
T/O Distance:			l Me			(Ground roll   Over 50ft. Obstacle ; Flaps UP)				V Speeds					
All Engines Climb:			<u> </u>	Ft'/N	fin (Flaps Up)					VR		V <sub>S1</sub>			
1 Engine Inop. Climb		:		Ft'/N	/lin	(Flaps & Gear UP, 92%, Feathered) - 1000ft 5000ft 8000ft			t	Vx		V s			
LDO	G Distanc	e:			Meters (Ground roll		over 50 ft. obstacle)				VY		V <sub>S0</sub>		
Accele	erate-Sto	p:		Mete	Meters [T/O Groun		oll + 85m + LDG Ground Roll]				Vo		VMC	4	
Fuel Calcu	ılations	Local - 60% @ 10.4 GPH (2 Engir Traffic Pattern - 55% @ 9.6 GPH (2 Engir			)		N	Name			ass (Kg)	П	PIC Approval		
	Trip (Block Time)	Reserve	Extra	Minimum Fuel Required	± :	Instructor						1 -		-	
Time				педапеа	Front	Student						Licens	se Nº:		
USG					- <i>y</i>	Observer						11			
Va					Rear	Page					Signature:				

Bags