Property of SWICAir B737-300 Performance Calcuations

Tail Number:	umber: FROM: TO:		CAPTAIN: PRI			REPAREI	PARED BY: D.			ATE / TIME:		(B) Selected FL =			
(D)															
1. Aircraft BOW							-			(A)				CONTROLLING	
2. ACM ()-1 ()-2				-			-		LOC	Rwy	135	000	Origination	T/O - STF	RUCTURAL
3. Extra F//											T/O - RUNWAY				
4. PAX (FI	_				-							T/O -	CLIMB		
5. PAX (CO					-			- 	4 4 4	000					
6. BAGS/CARGO (FORWARD)							-			Rwy	114	000	Takeoff Alt.		
7. BAGS/CARGO (AFT)							-								
8. ZFW	(Add lines 1	thru 7)					-							LDG -	
9. MAX Z	FW (106,500	LBS. MAX)		•					LOC	Rwy	114	000	Destination	LDG - ST	RUCTURAL
10. TAKEOF	FF FUEL													LDG - F	RUNWAY
11. TAKEC												LDG -	- CLIMB		
13. BURNO	FF TO DESTI	NATION					12.	Takeoff		Dwo/	111	000	Altornato		
14. LAND GROSS WT (DEST)							Stab Trim			i (wy	114				
15. BURNO															
16. LAND	GROSS WT	(ALT)						•						LDO	
<i>.</i>					, , , , , , , , , , , , , , , , , , , 			<u> </u>		1400					
17. Landing	g Fuel/Weigl	ht Units					•		(E)						
18. + ZF\	N (from line	8)					•			1300	00		4		
19. = Land	ling Conditi	on					-			1200					
(C) Burn to De	est + Res	erve + Alte	rnate =	= T/O	Fuel +	Taxi	_	Ramp Fuel	1	1100					
Time to De	est + Res +	erve + Alte +	rnate =	= Time	e/Fuel		Take	off Speeds:	J	1000					
(5)							V ₁ V _r	=		9000	0				
(F) TOC: (Time / Fuel)	/	T((Time / F	DD: uel)		/		V ₂	=	J	8000	0				
(Dist / TAS)	/	(Dist / T	AS)		/		Land V _{ref}	ing Speed: =]	7000	0 1.0		1.5	2.0	2.5

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Hints for performance calculation chart

A – Limit Weights. Use Airport Analysis charts located in "City Pair Book" for Departure, Arrival, Takeoff Alternate, and Alternate locations.

B – Optimum FL. Use Max T/O weight for origination (lowest of Structural, Runway or Climb weights) from step A to enter FL chart located in "Performance Tables" page 1. Ensure your altitude is hemispheric for direction of flight and select the highest achievable altitude (round down!)

C – Use selected FL and total flight distance to determine Burn to Dest. Total flight distance obtained from route planning on the Route Planning Chart. Enter Simplified Flight Planning Chart located in "Performance Tables" page 3 with distance and FL to determine fuel burned. Normal reserve fuel is 4000 pounds & 0:45 minutes, if additional holding or contingency fuel is required add 75lbs/minute to the normal reserve fuel. Normal taxi fuel is 500 pounds, if additional taxi time is required add 25 lbs/min to the normal taxi fuel.

D – Weight and Balance. Use appropriate "Performance Tables" to complete steps 1 -19. Remember to identify summer/winter weights. Use 47lbs of baggage per pax (2 bags @ 23.5lbs per bag). Plan 2/3 of weight in forward bin and 1/3 in aft. (Stab trim table found in performance charts Page 5)

E – CG Limits. Plot T/O (circle) and Landing (square) CGs.

F – TOC, TOD, T/O speeds, Landing speed. Use "Performance Tables" pages 8 – 12 to complete this data.