Nordicflite Oy Ltd

W/B / Performance calculation
Cessna 150M OH-CKY 8.6.2014

Date: _____ / _____ / _____

PIC: _____ Student:_____

Route: _____

Prepared: _____

Approved:_____

WEIGHT & BALANCE			
	MASS	ARM	MOM.
BASIC MASS (BW)	579	-	457,4
FRONT SEATS		1	
BAGGAGE AREA 1 (max 54 kg)		1,63	
BAGGAGE AREA 2 (max 18 kg)		2,13	
ZERO FUEL WEIGHT		-	
FUEL (max 92,5 kg)		1,07	
RAMP MASS		-	
TAXI FUEL	- 2	1,07	- 2,1
T/O MASS		-	
TRIP FUEL		1,07	
LDG WEIGHT AT DEST.		-	

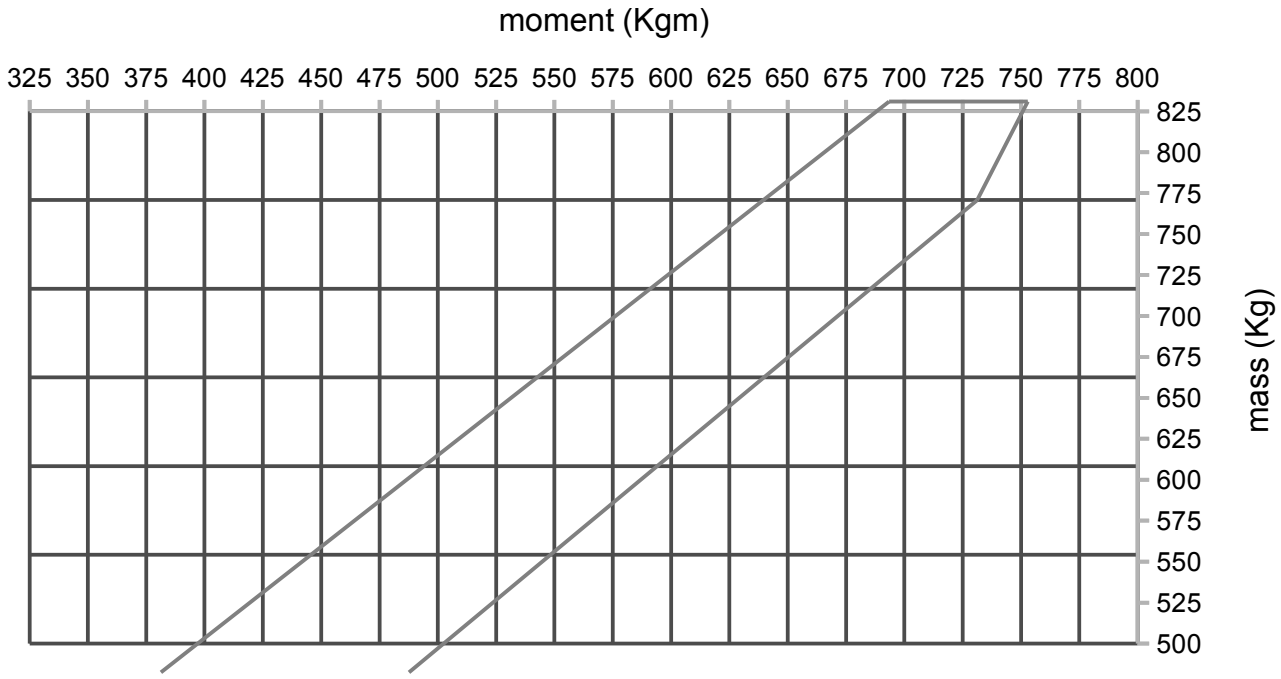
BASIC INFO					
A/C	MTOW - kg	BW - kg	Usable fuel	Max. fuel	MOM - kgm
OH-CKY	798	579	128,5 l / 92,5 kg	144 l / 103 kg	457,4

SEATS 1 & 2	
MASS	MOM.
kg	kgm
50	50
55	54
60	59
65	64
70	69
75	74
80	79
85	84
90	89
95	94

BAGGAGE (max 54 kg)		
MASS	MOM - kgm	
kg	Fwd	Aft
2	3	4
4	7	9
6	10	13
8	13	17
10	16	21
18	29	38
30	49	-
40	65	-
50	82	-
54	88	-

FUEL		
Qty	Mass	Moment - kgm
litres	kg	
5	3,6	3,8
10	7,1	7,6
20	14,2	15,2
30	21,3	22,1
40	28,4	28,4
50	35,5	37,6
60	42,6	42,6
70	49,7	53,2
80	56,8	60,8
90	63,9	68,4
100	72,0	77,0
110	79,2	84,7
120	86,4	92,5
130	93,6	100,5
140	100,8	107,9
144	103,7	110,9

CONSUMPTION 38 l/h



T/O DISTANCE / SHORT FIELD

CONDITIONS:
Flaps 10° / Full throttle prior brake release / Paved, level, dry runway / Zero wind

NOTES:
1. Short field technique as specified on section IV.
2. Prior to takeoff from fields above 3000 ft elevation, the mixture should be leaned to give maximum RPM in a full throttle, static runup.
3. Decrease distances 10 % for each 9 kts headwind. For operation with tailwinds up to 10 kts, increase distances 10 % for each 2 kts.
4. For operation on dry grass runway, increase distances by 15 % of ground roll figure.

FLIGHT-MASS kg	SPEED/KIAS		PRESS ALTITUDE ft	0° C		10° C		20° C		30° C		40° C	
	ROTATE	AT15m		GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST
757	50	54	0	195	363	212	393	230	424	247	456	267	489
			1000	215	399	233	433	251	466	271	501	293	539
			2000	236	440	256	477	277	515	299	555	322	597
			3000	261	488	282	527	305	570	329	616	355	666
			4000	287	541	311	585	335	634	363	686	392	744
			5000	317	600	343	652	370	707	401	770	344	838
			6000	349	671	379	730	410	796	443	870	479	953
			7000	387	753	419	824	454	902	492	992	532	1094
			8000	428	853	465	936	504	1035	547	1148	591	1279

LANDING DISTANCE / SHORT FIELD

CONDITIONS:
Flaps 30° / Power idle / Maximum braking / Paved, level, dry runway / Zero wind

NOTES:
1. Short field technique as specified on section IV
2. Decrease distance 10 % for each 9 kts headwind. For operation with tailwinds up to 10 kts, increase distance 10 % each 2 kts.
3. For operation on dry grass runway, increase 45 % on ground roll figure.
4. If landing with no flaps becomes necessary, increase approach speed by 7 KIAS and increase landing distance 35 %

FLIGHT-MASS kg	AIRSPEED AT 15m KIAS	PRESSURE ALTITUDE ft	0° C		10° C		20° C		30° C		40° C	
			GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST	GRND ROLL m	TOTAL TO CLEAR 15m OBST
757	50	0	137	354	142	362	148	370	152	378	157	386
	54	1000	142	361	148	370	152	378	158	387	163	316
		2000	148	370	152	378	158	387	163	396	169	405
		3000	152	378	158	389	165	398	171	407	175	415
		4000	158	389	165	398	171	407	177	418	183	427
		5000	165	398	171	407	177	418	183	427	189	437
		6000	171	408	177	418	184	430	191	439	197	450
		7000	178	419	184	430	191	439	198	451	204	462
		8000	184	430	192	442	198	451	206	463	212	474

TAKE-OFF RUN AVAILABLE		LANDING RUN AVAILABLE	
GROUND ROLL REQUIRED @ TAKE-OFF		GROUND ROLL REQUIRED @ LANDING	
TAKE-OFF DISTANCE TO CLEAR 50 FT OBSTACLE		LANDING DISTANCE REQUIRED TO CLEAR 50 FT OBSTACLE	
SIDEWIND COMPONENT		HEADWIND COMPONENT	

RUNWAY AVAILABLE

EFHF 18/36 TORA = TODA = 1280 m, LDA 18 = 1080 m, LDA 36 = 1160 m
EFHF 09/27 TORA = TODA = 1024 m, LDA 09 = 1024 m, LDA 27 = 985 m
EFTP 06/24 TORA = TODA = LDA = 2700 m
EFTU 08/26 TORA = TODA = LDA = 2500 m
EFLP 06/24 TORA = TODA = LDA = 2500 m

MAXIMUM SIDEWIND COMPONENT 15 KTS
8.6.2014