

**CLIMB DATA**

AT or ABOVE TOW 90,000 lbs						BELOW TOW 90,000 lbs							
PALT × 1000 (feet)	TIME (min) FUEL (lbs) TAS (kt)	TEMP(Δ°C)					PALT × 1000 (feet)	TIME (min) FUEL (lbs) TAS (kt)	TEMP(Δ°C)				
		-10	-5	STD	+5	+10			-10	-5	STD	+5	+10
25	39 5460 258						25	30 4000 257	32 4000 259				
24	35 5000 253						24	25.5 3630 248	27.5 3690 250	32.5 4220 252			
23	31 4600 248	36.0 4970 250					23	22.5 3350 241	24.0 3430 241	26.5 3930 245	32.0 4510 247		
22	27 4260 244	30.0 4510 246	35.0 5010 258				22	20 3110 235	21.0 3210 237	23.5 3610 239	27.5 4100 241	37.0 5130 243	
21	24 3930 240	26.0 4100 242	30.5 4560 244	38.5 5610 246			21	18 2910 233	19.0 3010 234	20.0 3320 235	24.5 3760 237	33.0 4670 239	
20	22 3650 236	25.0 3850 238	27.0 4250 240	32.5 5110 242	45.0 6520 244		20	16.5 2740 228	17.5 2820 230	19.0 3100 232	22.0 3500 234	29.0 4300 236	
19	20 3370 230	21.0 3500 235	24.5 3900 237	28.0 4670 239	39.5 5910 241		19	15 2560 225	15.5 2620 227	17.5 2890 229	20.0 3260 231	26.0 3960 233	
18	18 3130 225	19.0 3250 232	22.0 3600 234	26.0 4240 238	35.0 5310 238		18	13.5 2380 223	14.5 2210 225	15.5 2670 227	18.0 3030 229	23.0 3640 231	
17	16 2890 224	17.0 3000 230	20.0 3270 232	23.5 3890 232	30.5 4800 236		17	12.5 2200 221	13.0 2210 223	14.0 2450 225	16.0 2800 227	20.5 3320 229	
16	14.5 2670 223	15.0 2750 227	18.0 3010 229	21.0 3560 231	27.0 4320 233		16	11 2020 220	12.0 2030 222	13.0 2260 224	14.5 2570 226	18.5 3060 227	
15	13.5 2440 222	14.0 2500 225	16.0 2730 227	19.0 3230 231	24.5 3910 233		15	10 1850 219	10.5 1860 221	11.5 2080 223	13.5 2360 225	16.5 2800 227	
14	12 2210 221	12.5 2300 223	14.5 2520 225	17.0 2910 227	21.5 3550 229		14	9 1660 218	9.5 1690 220	10.5 1890 222	12.0 2150 224	15.0 2560 225	
13	10.5 2010 219	11.0 2100 221	12.5 2280 223	15.0 2610 225	19.0 3180 227		13	8 1500 217	8.5 1510 219	9.5 1710 221	10.5 1940 223	13.5 2310 223	
12	9.5 1800 218	10.0 1900 220	11.0 2010 222	13.0 2300 224	16.5 2700 226		12	7 1350 217	7.5 1300 218	8.5 1510 220	9.5 1700 222	12.0 2100 223	

2 ENGINE CRUISE (TEMP: STANDARD-10°C)

ALT × 1000 (feet)	WT × 1000 (lbs)	TEMP (°C)	BELOW 95	BELOW 85	BELOW 75	BELOW 65
			~ AT or ABOVE 85	~ AT or ABOVE 75	~ AT or ABOVE 65	~ AT or ABOVE 55
22		-45	F/F			3115
		-35.5	TAS (lbs/H)			307
21		-43	F/F		3385	3205
		-33.5	TAS		311	304
20		-41	F/F	3590	3465	3305
		-31.5	TAS	312	306	299
19		-39	F/F	3765	3655	3490
		-29.5	TAS	312	306	300
18		-37	F/F	3980	3820	3450
		-27.5	TAS	308	302	296
17		-35	F/F	4070	3890	3730
		-25.5	TAS	304	297	289
16		-33	F/F	4150	3985	3830
		-23.5	TAS	301	293	287
15		-31	F/F	4230	4055	3895
		-21.5	TAS	296	288	282
14		-29	F/F	4295	4135	3955
		-19.5	TAS	292	285	278
13		-27	F/F	4350	4195	4025
		-17.5	TAS	288	281	274
12		-25	F/F	4415	4255	4095
		-15.5	TAS	285	277	268
11		-23	F/F	4395	4240	4085
		-13.5	TAS	274	273	265
10		-21	F/F	4520	4365	4190
		-11.5	TAS	279	269	263
9		-19	F/F	4550	4405	4240
		-9.5	TAS	274	265	258

**2 ENGINE CRUISE (TEMP:STANDARD)**

ALT × 1000 (feet)	WT × 1000 (lbs)	TEMP (°C)	BELOW 95	BELOW 85	BELOW 75	BELOW 65	
			~ AT or ABOVE 85	~ AT or ABOVE 75	~ AT or ABOVE 65	~ AT or ABOVE 55	
22		-35	F/F (lbs/H)				3190
		-25.5	TAS (kt)				314
21		-33	F/F			3430	3400
		-23.5	TAS			317	310
20		-31	F/F		3720	3610	3440
		-21.5	TAS		317	312	305
19		-29	F/F		3860	3705	3540
		-19.5	TAS		313	307	299
18		-27	F/F	4100	3980	3810	3640
		-17.5	TAS	316	309	303	297
17		-25	F/F	4240	4060	3890	3720
		-15.5	TAS	310	304	297	291
16		-23	F/F	4325	4155	3990	3800
		-13.5	TAS	308	300	294	286
15		-21	F/F	4405	4225	4055	3870
		-11.5	TAS	303	295	289	281
14		-19	F/F	4480	4310	4130	3950
		- 9.5	TAS	299	292	285	278
13		-17	F/F	4530	4370	4200	4020
		- 7.5	TAS	294	287	281	273
12		-15	F/F	4600	4440	4270	4095
		- 5.5	TAS	291	283	277	270
11		-13	F/F	4700	4540	4380	4200
		- 3.5	TAS	293	286	272	266
10		-11	F/F	4710	4550	4370	4190
		- 1.5	TAS	283	275	269	262
9		-9	F/F	4740	4590	4420	4240
		+ 0.5	TAS	278	271	265	258

2 ENGINE CRUISE (TEMP: STANDARD+10°C)

WT × 1000 (lbs)	TEMP (°C)		BELOW 95	BELOW 85	BELOW 75	BELOW 65
			~ AT or ABOVE 85	~ AT or ABOVE 75	~ AT or ABOVE 65	~ AT or ABOVE 55
22	-25	F/F (lbs/H)				
	-15.5	TAS (kt)				
21	-23	F/F				3390
	-13.5	TAS				314
20	-21	F/F		3770	3690	3580
	-11.5	TAS		324	318	311
19	-19	F/F		3910	3825	3645
	-9.5	TAS		323	315	308
18	-17	F/F		4100	3965	3790
	-7.5	TAS		317	312	304
17	-15	F/F	4350	4220	4050	3870
	-5.5	TAS	319	312	305	299
16	-13	F/F	4500	4330	4150	3960
	-3.5	TAS	316	309	302	294
15	-11	F/F	4585	4395	4220	4025
	-1.5	TAS	311	304	297	289
14	-9	F/F	4660	4485	4295	4110
	+0.5	TAS	307	301	293	286
13	-7	F/F	4710	4550	4375	4180
	+2.5	TAS	302	296	289	281
12	-5	F/F	4795	4620	4445	4255
	+4.5	TAS	298	290	284	277
11	-3	F/F	4835	4660	4495	4305
	+6.5	TAS	293	286	280	273
10	-1	F/F	4905	4710	4560	4360
	+8.5	TAS	288	282	276	269
9	+1	F/F	4933	4780	4600	4415
	+10.5	TAS	286	278	272	265

DESCENT DATA			
ALT	TIME	TAS	FUEL
(× 1,000 feet)	(min)	(kt)	(lbs)
23	15	291	670
22	14	289	655
21	13	285	645
20	13	282	630
19	12	280	610
18	12	279	600
17	11	277	585
16	11	274	570
15	10	271	560
14	10	269	545
13	9	267	530
12	8	265	520
11	8	263	505
10	7	261	490

HOLDING FUEL (lbs)			
	LANDING WEIGHT AT ALTERNATE		
	85,000~81,001	81,000~77,001	77,000~73,001
30 min	2220	2130	2040

# 航法ログ

DEPARTURE AP	DESTINATION AP			ALTERNATE AP			ETD		9:00		FUEL PLAN									
RJXX	RJYY			RJZZ			ETE				TO DESTINATION		TO ALTERNATE		HOLDING		CONTINGENCY		TOTAL FUEL	
							ETA													
TO	ALT × 1000	TEMP △°C	TAS	WIND	TC	WCA	TH	VAR	MH	ZONE DIST	CUM DIST	GS	ZONE TIME	CUM TIME	ETO	F/F	ZONE FUEL	CUM FUEL	RMS	
X VOR																				
A VOR		-10		300/50	235			8W		150										
B VOR		-10		280/60	228			8W		80										
C VOR		STD		270/50	229			7W		78										
D VOR		STD		270/40	249			7W		95										
E VOR		+10		250/40	204			6W		59										
Y VOR		+10		240/40	190			6W		94										
																PLDW(予想着陸重量):		lbs		

## TO ALTERNATE AP

F VOR		+10		240/40	333			6W		66										
Z VOR		+10		250/40	276			6W		49										

# 航法ログ

DEPARTURE AP	DESTINATION AP			ALTERNATE AP			ETD		FUEL PLAN											
RJXX	RJYY			RJZZ			9:00		TO DESTINATION			TO ALTERNATE			HOLDING		CONTINGENCY		TOTAL FUEL	
							ETE													
	ALT	TEMP	TAS	WIND	TC	WCA	TH	VAR	MH	ZONE	CUM	GS	ZONE	CUM	ETO	F/F	ZONE	CUM	RMS	
TO	× 1000	△ °C								DIST	DIST		TIME	TIME			FUEL	FUEL		
X VOR																				
A VOR		-10		300/50	235			8W		150										
B VOR		-10		280/60	228			8W		80										
C VOR		STD		270/50	229			7W		78										
D VOR		STD		270/40	249			7W		95										
E VOR		+10		250/40	204			6W		59										
Y VOR		+10		240/40	190			6W		94										
																PLDW(予想着陸重量):		lbs		

## TO ALTERNATE AP

F VOR		+10		240/40	333			6W		66									
Z VOR		+10		250/40	276			6W		49									