



# **Aviation Stage 2**

## **Appendices Booklet**

Appendix A	Lockhart River (YLHR) ERSA extract
Appendix B	Loading System Charlie
Appendix C	Cessna 172 Take-off Chart
Appendix D	Cessna 172 Landing Chart

Appendix A Lockhart River (YLHR) ERSA extract

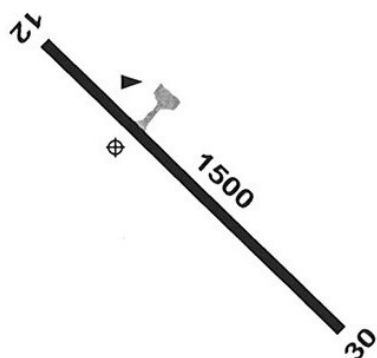
AIP Australia

12-Mar-2009

FAC L - 1

**LOCKHART RIVER  
AVFAX CODE 4505**

**ELEV 77**



QLD S 12 47.2 E 143 18.3 UTC +10 VAR 6 DEG E YLHR CERT  
AD OPR Lockhart River Aerodrome Company Pty. Ltd., C/O Post Office, Lockhart River, QLD, 4871. PH 07 4060 7121, FAX 4060 7103.

**REMARKS**

1. AD Charges : BLW 2500KG - \$15 MIN, ABV 2500KG \$12/1000KG. No overnight parking fees.
2. This AD is a Security Controlled Airport.
3. Alcohol is restricted in Lockhart River Shire. Heavy penalties apply. Special provisions apply for alcohol being transported on consignment, and restrictions may vary from time to time. For latest information please call 1300 789 000 and/or [www.liquor.qld.gov.au/indigenous](http://www.liquor.qld.gov.au/indigenous).

**HANDLING SERVICES AND FACILITIES**

SHELL: 0700-1700 Local MON-FRI, AH WE & PH H24 PN - Callout fee with H24 PN - \$45 (+ GST), Callout fee without H24 PN \$70 (+ GST) . Phone 07 4060 7121, FAX 4060 7103. JET A1 & AVGAS 100 AVBL (bulk facilities).

**METEOROLOGICAL INFORMATION PROVIDED**

TAF CAT D.

AWIS - 07 4060 7006.

**PHYSICAL CHARACTERISTICS**

12/30 119 49a PCN 9 /F /C /850 (123PSI) /T WID 30 RWS 90

**AERODROME AND APPROACH LIGHTING**

RWY 12/30 LIRL PAL 120.05

RWY 12/30 PTBL (1)

(1) PN - EMERG only

**OTHER LIGHTING**

L1 - PN EMERG only.

**ATS COMMUNICATIONS FACILITIES**

FIA BRISBANE CENTRE 122.1 4500FT

**RADIO NAVIGATION AND LANDING AIDS**

NDB LHR 392 S 12 47.3 E 143 18.2 Range 30 (HN 30) OW 40 (1) (OW HN 40)

- (1) Pilot monitored - FLUC of plus or minus 30DEG can be expected at 8NM in sector 300 MAG to 325 MAG.

CTAF 126.7

**CHARTS RELATED TO THE AERODROME**

WAC 3112

## Appendix B Loading System Charlie

## Charlie Loading Chart

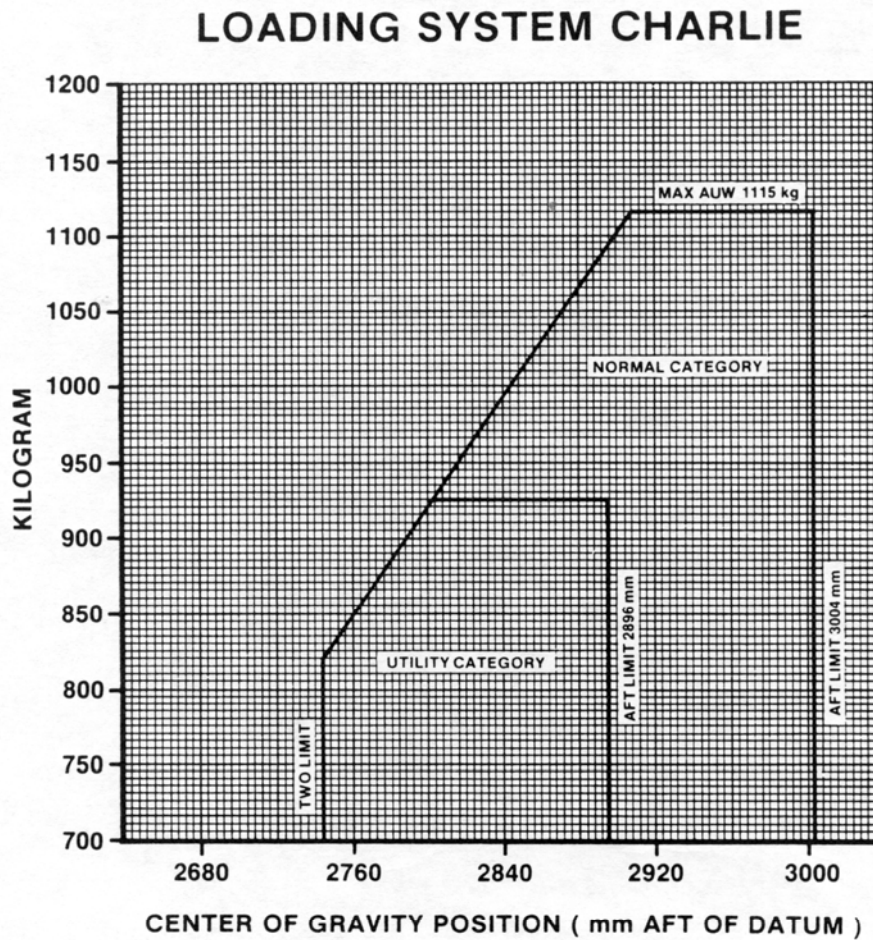
<b>LOADING SYSTEM CHARLIE</b>				
<b>INDEX UNITS</b>				
<b>FUEL ARM : 2950</b>			<b>BAGGAGE ARM : 4210</b>	
Litres	kg	INDEX UNITS	kg	INDEX UNITS
20	14	413	10	421
40	28	826	20	842
60	43	1 268	30	1 263
80	57	1 682	40	1 684
100	71	2 095	50	2 105
120	85	2 507	60	2 526
140	99	2 920	70	2 947
160	114	3 363	80	3 368
180	129	3 806	90	3 789
200	142	4 189	100	4 210
216	153	4 513	110	4 631
			122	5 136

<b>OCCUPANTS</b>		
Kg	ROW 1	ROW2
	ARM : 2750	ARM : 3600
40	1 100	1 440
45	1 237	1 620
50	1 375	1 800
55	1 512	1 980
60	1 650	2 160
65	1 786	2 340
70	1 925	2 520
75	2 062	2 700
80	2 200	2 880
85	2 338	3 060
90	2 475	3 240

<b>OIL ARM : 1230</b>			
US Quarts	Litres	kg	INDEX UNITS
6	5.7	5.0	62
7	6.6	6.0	74
8	7.6	7.0	86

See next page

Charlie Loading Chart



### ALLOWABLE CENTRE OF GRAVITY ENVELOPE

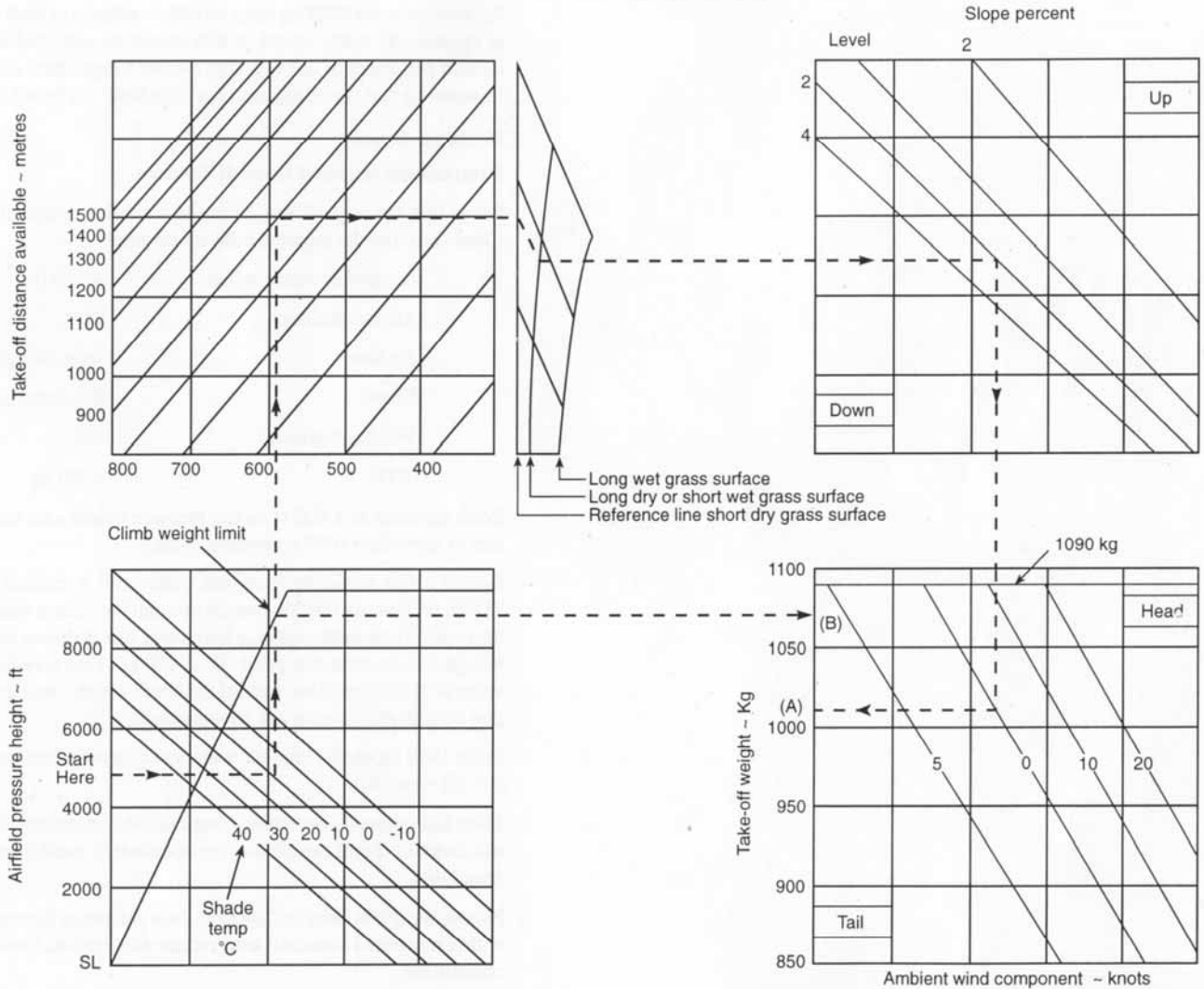
#### CONVERSION FACTORS

- 1 inch = 25.4 mm
- 1 foot = 0.305 metre
- 1 lb = 0.454 kg
- 1 Imp gal = 1.201 US gal = 4.546 litres
- 100/130 aviation gasoline : Specific Gravity = .71

Appendix C Cessna 172 Take-off Chart

NOT FOR OPERATIONAL PURPOSES

Take-off weight chart



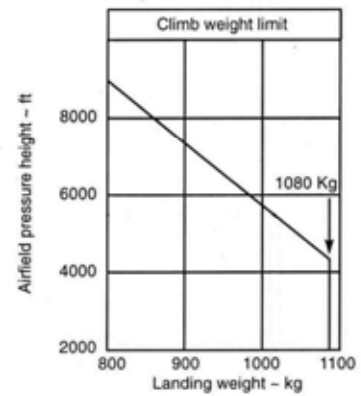
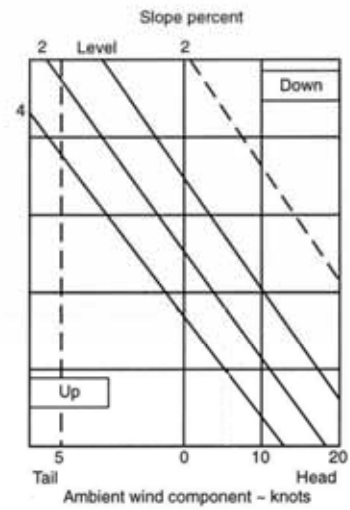
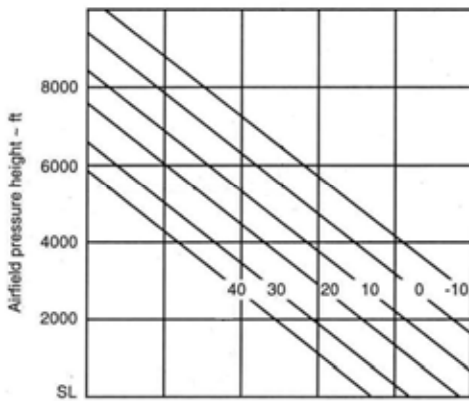
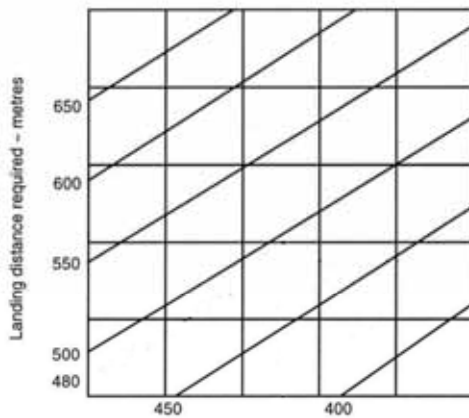
Notes:

- (1) The gross weight at take-off shall not exceed the lesser of (A) & (B)
- (2) Maximum take-off weight = 1090 kg

Power to be used	Full throttle
Flap setting	10 degrees
Take-off safety speed	60 KIAS
Take-off distance factor	1.15

Appendix D Cessna 172 Landing Chart

Landing chart



- Notes  
 (1) The gross weight at landing shall not exceed the climb weight limit  
 (2) Landing distance required does not vary significantly with weight

Flap setting	30 degrees
Approach speed	58 KIAS
Landing distance factor	1.15

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## ACKNOWLEDGEMENTS

- Appendix A:** Airservices Australia. (2009). Lockhart River (YLHR) Extract – En-route Supplement Australia. Air Services.  
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- Appendix B:** Yeo, M., Bowers, G. and Bennett, K., (2001). Loading System Charlie. Handbook of flight. West Perth, WA: West One Services.
- Appendix C:** Yeo, M., Bowers, G. and Bennett, K., (2001). Cessna 172 Take-off Chart. Handbook of flight. West Perth, WA: West One Services.
- Appendix D:** Yeo, M., Bowers, G. and Bennett, K., (2001). Cessna 172 Landing Chart. Handbook of flight. West Perth, WA: West One Services.

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