

UDC 551.524.36:551.571.36(468.2)

METEOROLOGICAL OFFICE

CLIMATOLOGICAL MEMORANDUM No. 107

Percentage frequencies of hourly values of dry-bulb
and wet-bulb temperatures at Gibraltar
1958-71

by Joyce Laing and K. Grant

ORGS UKMO C Duplicate

Climatological Services (Met O 3)

National Meteorological Library

FitzRoy Road, Exeter, Devon. EX1 3PB

July 1978

CLIMATOLOGICAL MEMORANDUM NO. 107

PERCENTAGE FREQUENCY OF HOURLY VALUES OF DRY-BULB AND WET-BULB TEMPERATURES

AT GIBRALTAR 1958-71

BY JOYCE LAING AND K. GRANT

Introduction

Hourly observations of dry-bulb and wet-bulb temperature were made at Gibraltar, Lat $36^{\circ} 09' N$ Long $05^{\circ} 21' W$ during the 14-years 1958-71. The thermometers were exposed in the standard louvered screen 4 feet (1.25 metres approximately) above short grass. An analysis has been made by computer of these observations to give monthly and annual tables showing the percentage frequency of combinations of dry- and wet-bulb readings in ranges of one degree Celsius. Tables are also given showing the frequency of dry-bulb and wet-bulb temperatures separately.

Explanation of the tables

Tables 1 to 13 contain for each month, and for the year, the distribution of combined dry-bulb and wet-bulb temperature. The ranges of dry-bulb temperature are shown down the left hand side: the ranges of wet-bulb temperature, across the page, are for the sake of brevity given as T (the dry-bulb temperature range for the row) $T-1$ degC, $T-2$ degC etc. Thus if T is 30.1 to 31.0 then $T-1$ is 29.1 to 30.0 and so on.

For any given range of dry-bulb temperature and associated wet-bulb temperature two values are given. The upper figure is the percentage frequency of occurrence within the given range calculated to two places of decimals; the lower figure is the cumulative percentage frequency of occurrence of dry-bulb temperature and associated wet-bulb temperature greater than, or equal to, the lower values in the appropriate range as indicated, calculated to one place of decimals. (Cumulative values of 0.0 indicate values of less than 0.05 per cent but greater than zero.) Entries of 0.00+ in the annual table indicate values of less than 0.005 per cent but greater than zero.

Example. In Table 1 for January, the percentage frequency of the number of hours with dry-bulb temperature within the range 17.1 to 18.0 deg C and the associated wet-bulb temperature within the range 15.1 to 16.0 deg C (column $T-2$) is 0.32. The cumulative value in this 'box', 0.7, indicates that a dry-bulb temperature of 17.1 deg C or more and an associated wet-bulb temperature of 15.1 deg C or more occurred on 0.7 per cent of the hours. This value is derived from the sum of the upper figures in each box below and to the left of a diagonal through the box concerned to the bottom right of the table; thus:

0.01	0.20	0.32	0.51	0.69	0.26	0.19	0.03	
		0.05	0.06	0.28	0.22	0.08	0.02	0.01
			0.02	0.02	0.04	0.01		
				0.01		0.01		

Slight discrepancies may occur in the last place of decimals due to the rounding off of figures when the percentage frequencies were calculated; the printed cumulative figures are correct rather than those obtained by simple addition of the figures in the table.

Table 14 gives the frequency of dry-bulb temperatures alone and table 15 gives the frequency of wet-bulb temperatures alone. The annual percentage frequencies have been worked from all the data and are not a direct mean of the monthly figures.

Average of accumulated temperature

Accumulated temperatures are the integrated excess or deficit from a stated base temperature, and are expressed as degree-days or degree-hours. From data given in table 14 the degree-hours can be calculated using the following method.

The average number of degree-hours in any month above a base temperature ($b^{\circ}\text{C}$) is given by the sum of the products obtained by multiplying the entries for that month which refer to temperatures greater than $b^{\circ}\text{C}$ (ie those values lying beneath the entry referring to the range of temperature whose upper limit is b) by $(1/2) \times (N/100)$, $(3/2) \times (N/100)$, $(5/2) \times (N/100)$ etc. respectively, where N is the number of hours in the month. This assumes, in effect, that the entries in the ranges $(b + 0.1)$ to $(b + 1)$, $(b + 1.1)$ to $(b + 2)$ etc. are concentrated at mid-point of the range $(b + 0.5)$, $(b + 1.5)$ etc.

Example. In May (number of hours 744) the average number of degree-hours above 25°C is (from table 14):

$$\begin{aligned} 0.7 \times (1/2) \times (744/100) &= 2.6 \\ 0.4 \times (3/2) \times (744/100) &= 4.5 \\ 0.2 \times (5/2) \times (744/100) &= 3.7 \\ 0.2 \times (7/2) \times (744/100) &= 5.2 \\ 0.1 \times (9/2) \times (744/100) &= 3.3 \\ 0^+ \times (11/2) \times (744/100) &= 0.0 \end{aligned}$$

19.3

To obtain the number of degree-hours below base $b^{\circ}\text{C}$ the procedure is the same except that the percentages used are those for the temperature ranges below and including the range of temperature which has $b^{\circ}\text{C}$ as its upper limit.

0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10

Table 1 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
JANUARY 1958-71 GIBRALTAR

DRY-BULB		ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
1.1 to 2.0	0.0 99.9	0.0 100.0							
2.1 to 3.0	0.01 99.7	0.0 99.9	0.0 100.0						
3.1 to 4.0	0.03 99.4	0.03 99.7	0.06 99.9	0.08 100.0					
4.1 to 5.0	0.0 98.7	0.05 99.4	0.03 99.6	0.12 99.8	0.03 99.8				
5.1 to 6.0	0.0 97.7	0.01 98.7	0.08 99.3	0.06 99.5	0.02 99.6				
6.1 to 7.0	0.01 96.7	0.17 97.7	0.14 98.7	0.21 99.2	0.12 99.4	0.02 99.4			
7.1 to 8.0	0.12 94.6	0.51 96.7	0.32 97.6	0.35 98.3	0.28 98.7	0.04 98.7			
8.1 to 9.0	0.40 90.4	1.03 94.5	0.82 96.0	0.39 96.6	0.26 97.0	0.09 97.1			
9.1 to 10.0	0.54 83.7	1.69 90.0	1.61 93.1	0.45 93.8	0.08 94.0	0.16 94.1			
10.1 to 11.0	0.60 73.2	2.34 83.1	2.09 87.7	0.83 89.2	0.18 89.5	0.08 89.6	0.02 89.6		
11.1 to 12.0	0.88 59.9	3.86 72.6	3.56 80.2	1.36 82.7	0.37 83.4	0.06 83.5	0.01 83.5		
12.1 to 13.0	1.39 40.2	5.98 59.1	4.64 67.8	2.28 71.9	0.72 73.0	0.23 73.3	0.01 73.4		
13.1 to 14.0	1.43 21.1	6.50 38.8	7.69 51.7	2.65 55.8	0.97 57.6	0.29 58.0	0.04 58.1	0.01 58.1	
14.1 to 15.0	0.55 7.3	5.80 19.7	7.31 30.9	3.44 36.1	1.03 37.5	0.63 38.3	0.10 38.5	0.02 38.5	
15.1 to 16.0	0.19 2.2	2.01 6.7	4.03 13.4	2.42 17.2	1.14 19.0	0.28 19.4	0.14 19.6	0.04 19.6	0.03 19.7
16.1 to 17.0	0.27 0.6	1.04 2.0	1.71 4.5	1.67 7.1	1.10 8.6	0.40 9.2	0.13 9.4	0.01 9.4	0.02 9.4
17.1 to 18.0	0.01 0.0	0.20 0.3	0.32 0.7	0.51 1.5	0.69 2.4	0.26 2.8	0.19 3.0	0.03 3.0	
18.1 to 19.0			0.05 0.1	0.06 0.2	0.28 0.5	0.22 0.7	0.08 0.8	0.02 0.8	0.01 0.8
19.1 to 20.0				0.02 0.0	0.02 0.0	0.04 0.1	0.01 0.1		
20.1 to 21.0					0.01 0.0		0.01 0.0		

Table 2 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
FEBRUARY 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
3.1 to 4.0	0.0 99.8	0.02 100.0	0.02 100.0						
4.1 to 5.0	0.0 99.4	0.5 99.8	0.01 99.9	0.01 100.0					
5.1 to 6.0	0.0 99.0	0.01 99.4	0.06 99.7	0.04 99.9					
6.1 to 7.0	0.01 98.1	0.03 99.0	0.08 99.4	0.11 99.6	0.07 99.8				
7.1 to 8.0	0.03 96.1	0.24 98.1	0.24 99.0	0.06 99.3	0.07 99.4	0.04 99.5	0.01 99.5		
8.1 to 9.0	0.09 92.8	0.69 96.1	0.60 97.8	0.30 98.5	0.14 98.7	0.03 98.8			
9.1 to 10.0	0.30 85.8	1.75 92.7	1.08 95.3	0.56 96.5	0.17 96.8	0.06 96.9	0.03 96.9		
10.1 to 11.0	0.49 74.8	2.29 85.5	1.92 90.6	0.75 92.2	0.21 92.8	0.08 92.9	0.01 93.0		
11.1 to 12.0	0.81 61.6	3.01 74.3	2.78 82.7	1.33 85.9	0.32 86.8	0.20 87.1	0.05 87.2	0.01 87.2	
12.1 to 13.0	0.90 39.4	5.12 60.8	4.50 70.5	3.16 76.1	1.02 78.0	0.26 78.5	0.09 78.7	0.02 78.7	0.01 78.7
13.1 to 14.0	1.16 19.1	7.74 38.5	9.37 54.8	3.31 59.9	1.41 62.4	0.39 63.3	0.15 63.5	0.04 63.6	
14.1 to 15.0	0.44 7.2	4.63 17.9	7.65 29.6	4.73 36.5	1.05 38.4	0.66 39.4	0.31 39.9	0.08 40.0	0.02 40.0
15.1 to 16.0	0.05 1.1	1.77 6.8	2.95 12.9	1.97 16.8	1.24 19.1	0.40 19.9	0.23 20.3	0.13 20.4	0.03 20.5
16.1 to 17.0	0.01 0.2	0.15 1.0	2.27 5.0	1.61 8.1	1.35 10.1	0.68 11.1	0.26 11.5	0.16 11.6	0.02 11.7
17.1 to 18.0		0.01 0.2	0.32 0.9	0.89 2.6	0.83 4.1	0.36 4.7	0.23 5.0	0.11 5.1	0.01 5.2
18.1 to 19.0			0.04 0.2	0.27 0.6	0.45 1.3	0.43 2.0	0.15 2.3	0.04 2.4	
19.1 to 20.0				0.06 0.1	0.09 0.2	0.22 0.6	0.08 0.8	0.04 0.9	0.02 1.0
20.1 to 21.0					0.04 0.1	0.0 0.1	0.04 0.2	0.06 0.3	0.04 0.4
21.1 to 22.0						0.01 0.0		0.05 0.1	0.02 0.2
22.1 to 23.0								0.02 0.0	0.01 0.0
23.1 to 24.0									0.01 0.0

Table 2 (con't) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
FEBRUARY 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)						
	T-9	T-10	T-11	T-12	T-13	T-14	T
19.1 to 20.0	0.0 1.0	0.01 1.0					0.0 0.0
20.1 to 21.0	0.03 0.5			0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
21.1 to 22.0	0.04 0.3			0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
22.1 to 23.0	0.06 0.1	0.02 0.1		0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0

Table 3 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

MARCH 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
5.1 to 6.0	0.0 99.8	0.03 100.0							
6.1 to 7.0	0.0 99.2	0.04 99.8	0.06 100.0	0.02 100.0					
7.1 to 8.0	0.02 97.8	0.09 99.2	0.18 99.7	0.09 99.9					
8.1 to 9.0	0.08 95.7	0.34 97.8	0.55 99.1	0.16 99.4	0.05 99.5				
9.1 to 10.0	0.08 90.9	0.78 95.6	0.72 97.4	0.47 98.2	0.12 98.3	0.01 98.3			
10.1 to 11.0	0.16 83.2	1.23 90.8	1.30 94.8	0.39 95.8	0.15 96.1	0.02 96.1			
11.1 to 12.0	0.45 73.6	1.93 83.0	2.58 89.4	1.21 92.1	0.26 92.7	0.11 92.9			
12.1 to 13.0	0.53 54.6	3.59 73.1	2.76 80.6	1.71 84.4	0.71 85.9	0.17 86.3	0.03 86.3		
13.1 to 14.0	0.90 34.9	4.93 54.1	7.66 69.0	2.67 73.8	1.01 75.8	0.39 76.6	0.14 76.8	0.02 76.8	
14.1 to 15.0	0.87 15.7	6.51 34.0	7.62 48.3	3.93 55.5	0.88 57.6	0.58 58.7	0.24 59.0	0.07 59.1	
15.1 to 16.0	0.06 4.5	2.77 14.9	4.70 26.6	3.09 33.2	1.42 36.6	0.56 37.8	0.25 38.3	0.10 38.4	
16.1 to 17.0	0.0 1.2	0.87 4.5	3.48 12.0	3.74 19.1	1.88 22.6	1.08 24.5	0.44 25.2	0.13 25.4	0.03 25.5
17.1 to 18.0	0.0 0.2	0.13 1.2	0.84 3.6	1.90 7.7	1.84 11.0	0.87 12.6	0.58 13.5	0.17 13.7	0.10 13.8
18.1 to 19.0		0.01 0.2	0.17 1.1	0.66 2.6	1.19 4.8	0.99 6.3	0.53 7.1	0.20 7.3	0.06 7.4
19.1 to 20.0			0.03 0.2	0.26 0.9	0.42 1.8	0.60 2.8	0.35 3.2	0.17 3.5	0.02 3.5
20.1 to 21.0			0.01 0.0	0.01 0.2	0.11 0.6	0.22 1.1	0.22 1.4	0.08 1.6	0.07 1.7
21.1 to 22.0					0.07 0.2	0.14 0.5	0.15 0.7	0.11 0.9	0.01 0.9
22.1 to 23.0					0.01 0.0	0.04 0.1	0.11 0.3	0.03 0.4	0.02 0.4
23.1 to 24.0							0.02 0.1	0.09 0.2	0.01 0.2

Table 3(Con't) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
MARCH 1958-71

GIBRALTAR

DRY-BULB		ASSOCIATED WET-BULB TEMPERATURE (DEG C)						
T	(DEG C)	T-6	T-7	T-8	T-9	T-10	T-11	
18.1 TO 19.0		0.53 7.1	0.20 7.3	0.06 7.4	0.02 7.4			
19.1 TO 20.0		0.35 3.2	0.17 3.5	0.02 3.5				
20.1 TO 21.0		0.22 1.4	0.08 1.6	0.07 1.7	0.02 1.7			
21.1 TO 22.0		0.15 0.7	0.11 0.9	0.01 0.9	0.02 1.0			
22.1 TO 23.0		0.11 0.3	0.03 0.4	0.02 0.4	0.03 0.5			
23.1 TO 24.0		0.02 0.1	0.09 0.2	0.01 0.2	0.03 0.2	0.01 0.2	0.01 0.2	
24.1 TO 25.0		0.01 0.0	0.02 0.0					
25.1 TO 26.0			0.01 0.0					
26.1 TO 27.0						0.02 0.0		
27.1 TO 28.0						0.01 0.0		

Table 4 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

APRIL 1958-71

GIBRALTAR

DRY-BULB		ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
7.1 to 8.0	0.04 99.6	0.06 100.0	0.0 100.0	0.01 100.0					
8.1 to 9.0	0.07 98.9	0.18 99.6	0.10 99.9	0.03 99.9					
9.1 to 10.0	0.10 97.1	0.54 98.9	0.20 99.3	0.10 99.5					
10.1 to 11.0	0.13 93.6	0.71 97.0	0.50 98.2	0.11 98.5	0.04 98.6				
11.1 to 12.0	0.22 88.1	1.16 93.4	1.14 96.2	0.35 96.9	0.08 97.0	0.03 97.1			
12.1 to 13.0	0.49 77.2	2.53 87.9	1.51 92.1	0.66 93.7	0.21 94.0	0.02 94.1	0.04 94.1		
13.1 to 14.0	0.68 60.8	3.73 76.7	3.51 84.8	1.18 87.5	0.40 88.5	0.06 88.6	0.02 88.7		
14.1 to 15.0	1.06 38.7	5.00 60.1	5.47 72.3	2.36 76.9	0.66 78.4	0.31 79.0	0.07 79.1	0.01 79.1	
15.1 to 16.0	0.63 16.4	5.01 37.7	5.55 54.0	2.75 60.8	0.79 63.0	0.44 63.9	0.11 64.1	0.01 64.1	
16.1 to 17.0	0.16 5.9	2.13 15.8	5.80 32.0	4.92 42.8	1.93 46.8	0.64 48.3	0.29 48.7	0.10 48.8	
17.1 to 18.0	0.0 1.3	0.47 5.8	2.38 13.5	4.31 23.9	2.91 29.8	1.21 31.9	0.49 32.7	0.08 32.8	0.01 32.9
18.1 to 19.0	0.0 0.1	0.04 1.3	1.07 5.3	2.17 10.7	3.22 16.8	1.75 19.8	0.45 20.6	0.18 20.9	0.04 21.0
19.1 to 20.0		0.0 0.1	0.18 1.3	1.02 4.2	1.53 7.4	1.80 10.3	0.80 11.5	0.24 11.9	0.04 12.1
20.1 to 21.0			0.03 0.1	0.22 1.1	0.72 3.0	0.79 4.6	0.63 5.7	0.24 6.2	0.12 6.3
21.1 to 22.0				0.02 0.1	0.17 0.8	0.59 2.0	0.56 2.9	0.36 3.3	0.14 3.5
22.1 to 23.0					0.01 0.0	0.22 0.7	0.44 1.2	0.19 1.5	0.08 1.7
23.1 to 24.0						0.01 0.0	0.25 0.4	0.09 0.6	0.09 0.7
24.1 to 25.0							0.02 0.0	0.08 0.2	0.07 0.2
25.1 to 26.0									0.02 0.1

Table 4 (cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

APRIL 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7
18.1 to 19.0	0.01 21.0					10.0 0.001	0.0 0.001	0.0 0.0
19.1 to 20.0	0.01 12.1	0.02 12.1				50.0 0.001	0.0 0.001	0.0 0.0
20.1 to 21.0	0.06 6.5			50.0 0.001	20.0 0.001	20.0 0.001	20.0 0.001	0.0 0.0
21.1 to 22.0	0.06 3.6	0.05 3.7		50.0 0.001	51.0 0.001	15.0 0.001	40.0 0.001	0.0 0.0
22.1 to 23.0	0.05 1.7			50.0 0.001	25.0 0.001	35.0 0.001	20.0 0.001	0.0 0.0
23.1 to 24.0	0.03 0.7	0.01 0.7	80.0 4.80	45.0 2.82	25.0 1.52	20.0 1.22	15.0 1.02	0.0 0.0
24.1 to 25.0	0.01 0.3		50.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	0.0 0.0
25.1 to 26.0	0.0 0.1	0.01 0.1	50.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	0.0 0.0
26.1 to 27.0	0.01 0.0		50.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	0.0 0.0
27.1 to 28.0	0.01 0.0	0.01 0.0	50.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	25.0 0.001	0.0 0.0
28.1 to 29.0			0.02 0.0					

Table 5 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

MAY 1958-71

GIBRALTAR

ASSOCIATED WET-BULB TEMPERATURE (DEG C)									
DRY--BULB T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
8.1 to 9.0	0.0 100.0	0.01 100.0							
9.1 to 10.0	0.0 99.8	0.02 100.0							
10.1 to 11.0	0.05 99.3	0.06 99.8	0.06 100.0	0.02 100.0					
11.1 to 12.0	0.04 98.0	0.21 99.3	0.12 99.7	0.07 99.8					
12.1 to 13.0	0.09 95.5	0.38 97.9	0.26 99.0	0.20 99.4					
13.1 to 14.0	0.21 89.1	1.05 95.4	0.76 97.5	0.34 98.3	0.08 98.4				
14.1 to 15.0	0.68 76.6	2.30 88.9	2.19 94.1	0.50 95.5	0.25 95.9	0.02 96.0			
15.1 to 16.0	0.65 57.5	3.28 75.9	2.52 85.9	1.22 89.0	0.26 89.8	0.07 90.0	0.03 90.1		
16.1 to 17.0	0.41 39.4	4.40 56.9	5.09 72.0	2.82 79.5	0.73 81.3	0.28 81.8	0.09 82.0	0.01 82.0	
17.1 to 18.0	0.59 19.0	4.53 39.0	4.78 52.0	3.84 62.1	1.67 66.7	0.44 67.8	0.12 68.1	0.08 68.2	
18.1 to 19.0	0.09 6.9	1.94 18.4	5.14 33.9	3.06 42.1	2.34 48.4	1.19 51.3	0.37 52.0	0.10 52.1	
19.1 to 20.0	0.01 1.3	0.58 6.8	2.69 16.4	4.16 26.7	1.95 31.9	1.60 35.8	0.88 37.6	0.15 37.9	0.05 37.9
20.1 to 21.0	0.0 0.2	0.08 1.3	0.91 6.3	2.38 13.1	2.44 19.3	1.16 22.5	1.07 24.8	0.35 25.7	0.07 25.8
21.1 to 22.0		0.01 0.2	0.09 1.2	1.45 5.3	1.71 9.7	1.93 13.5	0.92 15.6	0.64 16.8	0.34 17.3
22.1 to 23.0			0.03 0.2	0.30 1.1	1.16 3.7	1.29 6.5	0.97 8.3	0.54 9.5	0.33 10.0
23.1 to 24.0				0.0 0.1	0.25 0.8	0.51 2.2	0.79 3.7	0.41 4.5	0.39 5.2
24.1 to 25.0					0.0 0.1	0.11 0.6	0.37 1.5	0.34 2.2	0.23 2.6
25.1 to 26.0						0.01 0.1	0.09 0.5	0.20 1.0	0.20 1.3
26.1 to 27.0							0.03 0.1	0.07 0.4	0.18 0.7
27.1 to 28.0							0.01 0.0	0.03 0.1	0.07 0.3

Table 5 (cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

MAY 1958-71

GIBRALTAR

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)	T-8	T-9	T-10	T-11	T-12	T-13	T
20.1 to 21.0	0.07 25.8	0.01 25.8					
21.1 to 22.0	0.34 17.3	0.06 17.4					
22.1 to 23.0	0.33 10.0	0.12 10.2					
23.1 to 24.0	0.39 5.2	0.20 5.4	0.07 5.5				
24.1 to 25.0	0.23 2.6	0.14 2.8	0.03 2.9	0.02 2.9			
25.1 to 26.0	0.20 1.3	0.13 1.5	0.07 1.6	0.01 1.7			
26.1 to 27.0	0.18 0.7	0.05 0.8	0.05 0.9	0.04 0.9			
27.1 to 28.0	0.07 0.3	0.06 0.4	0.05 0.5	0.01 0.5			
28.1 to 29.0	0.02 0.1	0.09 0.2	0.04 0.3	0.04 0.3			
29.1 to 30.0	0.01 0.0	0.02 0.0	0.01 0.1	0.05 0.1			
30.1 to 31.0			0.02 0.0		0.01 0.0	0.01 0.0	

Table 6 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

JUNE 1958-71

GIBRALTAR

ASSOCIATED WET-BULB TEMPERATURE (DEG C)									
DRY-BULB T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
13.1 TO 14.0	0.06 99.6	0.02 99.9	0.01 100.0	0.02 100.0					
14.1 TO 15.0	0.11 97.7	0.31 99.5	0.15 99.9	0.01 99.9	0.01 99.9				
15.1 TO 16.0	0.32 90.8	1.24 97.6	0.63 99.1	0.10 99.3	0.02 99.3				
16.1 TO 17.0	0.42 77.5	2.88 90.5	2.15 96.0	0.39 96.9	0.06 97.0				
17.1 TO 18.0	0.60 59.5	3.63 77.1	3.52 87.2	1.37 90.6	0.21 91.1	0.03 91.1			
18.1 TO 19.0	0.71 38.5	4.98 58.9	4.87 72.8	2.56 79.4	0.84 81.5	0.19 81.7	0.01 81.7		
19.1 TO 20.0	0.34 18.9	3.99 37.8	5.48 53.2	3.13 62.3	1.77 66.3	0.54 67.5	0.06 67.6		
20.1 TO 21.0	0.11 6.7	1.37 18.5	3.61 33.4	3.38 43.4	1.83 49.3	1.11 51.6	0.26 52.3	0.01 52.3	
21.1 TO 22.0	0.03 1.9	0.45 6.6	2.32 17.1	4.50 28.3	2.32 34.9	1.72 39.0	0.58 40.2	0.24 40.6	0.02 40.6
22.1 TO 23.0	0.0 0.2	0.13 1.8	0.69 6.1	2.96 14.3	2.60 21.0	1.57 25.3	1.29 27.7	0.27 28.3	0.07 28.4
23.1 TO 24.0		0.01 0.2	0.32 1.7	1.23 5.3	2.08 10.5	1.85 14.7	1.48 17.3	0.62 18.5	0.22 18.8
24.1 TO 25.0			0.02 0.1	0.34 1.4	0.76 3.7	1.07 6.8	0.98 9.2	0.53 10.4	0.31 10.9
25.1 TO 26.0				0.01 0.1	0.26 1.0	0.51 2.6	0.74 4.6	0.61 6.0	0.27 6.7
26.1 TO 27.0					0.02 0.1	0.16 0.8	0.49 1.8	0.83 3.1	0.36 3.9
27.1 TO 28.0						0.0 0.1	0.13 0.6	0.32 1.2	0.22 1.6
28.1 TO 29.0							0.0 0.1	0.14 0.4	0.16 0.7
29.1 TO 30.0							0.01 0.0	0.01 0.1	0.10 0.3
30.1 TO 31.0								0.01 0.0	

Table 6 (cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

JUNE 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
	T-9	T-10	T-11	T-12	T-9	T-10	T-11	T-12
23.1 TO 24.0	0.05				0.0	0.0	0.01	0.01
18.9					0.001	0.00		
24.1 TO 25.0	0.04	0.04			0.0	0.0	0.01	0.01
11.0	11.0				0.00	0.00		
25.1 TO 26.0	0.12	0.03			0.0	0.0	0.01	0.01
6.9	6.9				0.00	0.00		
26.1 TO 27.0	0.23	0.08	0.01	0.01	0.0	0.0	0.01	0.01
4.3	4.4	4.4	4.4	4.4	0.00	0.00		
27.1 TO 28.0	0.26	0.14	0.02		0.0	0.0	0.01	0.01
2.0	2.2	2.2			0.00	0.00		
28.1 TO 29.0	0.14	0.09	0.01		0.0	0.0	0.01	0.01
1.0	1.1	1.1			0.00	0.00		
29.1 TO 30.0	0.05	0.05	0.05	0.01	0.0	0.0	0.01	0.01
0.4	0.5	0.6	0.6		0.00	0.00		
30.1 TO 31.0	0.04	0.03	0.04		0.0	0.0	0.01	0.01
0.2	0.2	0.3			0.00	0.00		
31.1 TO 32.0	0.05	0.05	0.02	0.02	0.0	0.0	0.01	0.01
0.1	0.1	0.2	0.2		0.00	0.00		
32.1 TO 33.0	0.01	0.01	0.02	0.01	0.0	0.0	0.01	0.01
0.0	0.0	0.0	0.0		0.00	0.00		

Table 7 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
JULY 1958-71 GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
14.1 TO 15.0	0.0 99.8	0.0 100.0							
15.1 TO 16.0	0.0 99.3	0.02 99.8							
16.1 TO 17.0	0.08 97.7	0.11 99.3	0.0 99.8	0.02 99.9	0.01 100.0	0.01 100.0			
17.1 TO 18.0	0.17 91.7	0.46 97.6	0.16 99.1	0.04 99.6	0.01 99.7	0.02 99.8			
18.1 TO 19.0	1.03 81.0	1.22 91.5	1.15 97.0	0.32 98.3	0.10 98.8	0.03 98.9	0.01 98.9		
19.1 TO 20.0	1.40 62.4	3.88 80.0	1.84 89.3	1.40 93.6	0.18 94.6	0.12 95.0	0.02 95.0		
20.1 TO 21.0	0.61 40.2	4.37 61.0	3.25 74.7	1.64 82.1	0.56 85.1	0.11 85.9	0.03 86.2	0.01 86.2	
21.1 TO 22.0	0.80 23.9	3.24 39.6	5.17 56.0	2.63 66.5	1.44 72.3	0.62 74.7	0.19 75.4	0.05 75.6	0.02 75.6
22.1 TO 23.0	0.35 9.1	3.11 23.1	3.26 35.6	3.69 46.8	1.82 54.7	0.90 59.0	0.68 60.8	0.20 61.3	0.06 61.5
23.1 TO 24.0	0.14 2.4	1.41 8.7	3.19 19.7	3.56 28.9	1.80 36.4	1.42 42.5	0.95 45.9	0.37 46.9	0.12 47.3
24.1 TO 25.0	0.0 0.5	0.32 2.2	1.56 7.2	3.09 14.9	1.90 20.6	1.38 26.3	1.31 30.9	1.09 33.4	0.31 34.1
25.1 TO 26.0	0.0 0.1	0.04 0.5	0.31 1.9	1.54 5.3	1.47 10.0	0.85 13.7	1.08 18.0	1.09 21.4	0.43 22.7
26.1 TO 27.0		0.0 0.1	0.09 0.4	0.67 1.5	1.09 3.4	0.99 6.6	1.02 9.5	1.19 12.7	1.00 15.0
27.1 TO 28.0			0.0 0.1	0.12 0.3	0.23 0.8	0.23 1.6	0.47 3.8	0.69 5.6	0.93 7.7
28.1 TO 29.0				0.04 0.1	0.12 0.2	0.07 0.4	0.15 1.0	0.57 2.7	0.48 3.9
29.1 TO 30.0							0.02 0.2	0.15 0.6	0.47 1.8
30.1 TO 31.0								0.02 0.2	0.06 0.5
31.1 TO 32.0									0.07 0.2

Table 7 (Cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

JULY 1958-71		GIBRALTAR						
ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
DRY-BULB T(DEG C)	T-9	T-10	T-11	T-12	T-13	T-13	T-14	T-15
23.1 TO 24.0	0.07 47.4							
24.1 TO 25.0	0.11 34.3	0.01 34.4	0.01 34.4					
25.1 TO 26.0	0.16 23.1	0.06 23.3						
26.1 TO 27.0	0.42 15.9	0.13 16.2	0.04 16.2	0.01 16.3				
27.1 TO 28.0	0.53 8.9	0.17 9.5	0.07 9.6	0.02 9.6				
28.1 TO 29.0	0.50 5.0	0.31 5.7	0.17 6.1	0.04 6.1	0.01 6.1	0.01 6.1		
29.1 TO 30.0	0.33 2.5	0.34 3.1	0.22 3.5	0.07 3.7	0.0 3.7	0.0 3.7		
30.1 TO 31.0	0.34 1.1	0.18 1.5	0.16 1.8	0.12 2.0	0.06 2.1	0.0 2.1		
31.1 TO 32.0	0.08 0.4	0.25 0.7	0.13 0.9	0.09 1.0	0.07 1.1	0.04 1.1		
32.1 TO 33.0	0.02 0.1	0.07 0.2	0.10 0.3	0.03 0.4	0.02 0.4			
33.1 TO 34.0		0.02 0.1	0.03 0.1	0.01 0.2	0.0 0.2	0.02 0.2		
34.1 TO 35.0	0.01 0.0		0.0 0.1	0.03 0.1	0.0 0.1	0.01 0.1	0.01 0.1	
35.1 TO 36.0		0.03 0.0						
36.1 TO 37.0			0.01 0.0		0.02 0.0			

Table 8 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

AUGUST 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
15.1 TO 16.0	0.0 99.6	0.0 99.9	0.0 100.0						
16.1 TO 17.0	0.04 99.0	0.0 99.6	0.01 99.9						
17.1 TO 18.0	0.08 95.1	0.17 98.9	0.01 99.6	0.03 99.9	0.01 100.0				
18.1 TO 19.0	0.54 86.4	0.74 95.0	0.39 98.7	0.09 99.3	0.05 99.6				
19.1 TO 20.0	1.26 71.5	2.27 85.9	1.64 93.7	0.67 97.0	0.09 97.6	0.07 97.8			
20.1 TO 21.0	1.32 52.2	4.12 70.3	1.86 82.4	1.66 88.6	0.63 91.2	0.12 91.7	0.03 91.8		
21.1 TO 22.0	1.43 34.6	5.02 50.9	3.67 64.9	2.48 75.1	1.28 79.6	0.71 81.6	0.13 82.0	0.05 82.1	
22.1 TO 23.0	0.35 14.1	5.26 33.2	3.47 44.4	2.15 54.7	1.76 62.5	0.83 65.7	0.44 67.0	0.11 67.2	0.05 67.3
23.1 TO 24.0	0.15 3.3	2.24 13.8	5.82 27.6	2.43 35.4	1.69 43.5	1.55 49.5	0.77 51.9	0.26 52.8	0.06 52.9
24.1 TO 25.0	0.0 0.2	0.41 3.1	3.13 11.4	3.68 19.4	1.34 24.7	1.36 31.2	1.21 35.6	0.48 37.3	0.29 37.9
25.1 TO 26.0		0.0 0.2	0.63 2.7	2.63 7.8	1.41 12.1	0.73 16.2	1.14 21.3	0.82 24.5	0.38 25.7
26.1 TO 27.0			0.02 0.2	1.07 2.1	1.22 4.6	0.73 7.5	0.78 10.8	1.49 14.7	0.83 17.1
27.1 TO 28.0				0.14 0.2	0.45 1.0	0.37 2.3	0.48 4.4	0.79 6.9	0.85 9.4
28.1 TO 29.0					0.02 0.0	0.12 0.4	0.20 1.3	0.45 3.0	0.64 4.7
29.1 TO 30.0						0.01 0.0	0.06 0.2	0.27 1.0	0.33 2.2
30.1 TO 31.0							0.01 0.0	0.06 0.2	0.11 0.6
31.1 TO 32.0									0.04 0.1
32.1 TO 33.0									0.01 0.0

Table 8(cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

AUGUST 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7 T-8
22.1 TO 23.0	0.02 67.3					0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
23.1 TO 24.0	0.02 52.9	0.03 52.9				0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
24.1 TO 25.0	0.04 37.9					0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
25.1 TO 26.0	0.12 26.0	0.02 26.0				0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
26.1 TO 27.0	0.45 17.9	0.10 18.1	0.01 18.1			0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
27.1 TO 28.0	0.61 11.0	0.13 11.3	0.03 11.4			0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
28.1 TO 29.0	0.84 6.3	0.55 7.3	0.16 7.5	0.01 7.5		0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
29.1 TO 30.0	0.48 3.3	0.42 4.0	0.25 4.5	0.0 4.5	0.01 4.5	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
30.1 TO 31.0	0.33 1.1	0.33 2.1	0.16 2.5	0.11 2.7	0.02 2.7	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
31.1 TO 32.0	0.12 0.4	0.28 1.0	0.15 1.3	0.11 1.5	0.04 1.6	0.01 1.6	0.0 0.0 0.001 0.00	0.0 0.0 0.001 0.00
32.1 TO 33.0	0.03 0.1	0.07 0.3	0.15 0.6	0.06 0.7	0.07 0.8	0.04 0.8	0.0 0.8	0.01 0.9
33.1 TO 34.0		0.01 0.0	0.07 0.2	0.09 0.3	0.04 0.4	0.0 0.4	0.0 0.4	0.01 0.4
34.1 TO 35.0				0.04 0.1	0.02 0.2	0.01 0.2	0.01 0.2	0.01 0.2
35.1 TO 36.0				0.03 0.0	0.02 0.1	0.03 0.1	0.01 0.1	
36.1 TO 37.0						0.01 0.0	0.02 0.0	
37.1 TO 38.0							0.01 0.0	

Table 9 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
SEPTEMBER 1958-71 GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
12.1 TO 13.0	0.0 99.9	0.0 100.0							
13.1 TO 14.0	0.01 99.5	0.02 99.9							
14.1 TO 15.0	0.03 98.5	0.04 99.5	0.07 99.9	0.01 100.0					
15.1 TO 16.0	0.15 95.9	0.23 98.5	0.14 99.4	0.09 99.8	0.03 99.8				
16.1 TO 17.0	0.23 91.7	0.68 95.8	0.50 98.1	0.23 98.9	0.10 99.2	0.02 99.2			
17.1 TO 18.0	0.62 82.3	1.78 91.5	0.85 94.9	0.63 96.7	0.13 97.3	0.07 97.4			
18.1 TO 19.0	0.77 66.4	3.07 81.7	2.18 89.1	0.74 91.6	0.50 92.8	0.10 93.3	0.04 93.4		
19.1 TO 20.0	0.92 48.0	4.39 65.6	4.29 77.8	2.21 83.1	0.70 84.9	0.22 85.6	0.12 85.9	0.04 86.0	
20.1 TO 21.0	0.62 31.5	3.48 47.1	3.55 60.3	2.53 68.2	0.89 71.3	0.30 72.3	0.20 72.8	0.02 73.0	
21.1 TO 22.0	0.63 20.1	3.24 30.8	4.12 43.0	3.37 52.6	1.81 58.1	0.71 60.2	0.23 61.0	0.16 61.3	0.09 61.5
22.1 TO 23.0	0.33 7.0	5.15 19.5	3.32 27.0	2.90 35.0	1.91 41.2	1.23 44.9	0.60 46.3	0.28 46.8	0.09 47.0
23.1 TO 24.0	0.11 1.4	1.77 6.7	3.78 14.0	1.76 18.2	1.65 23.3	1.30 27.6	1.04 30.0	0.39 30.9	0.13 31.1
24.1 TO 25.0		0.25 1.3	1.49 4.8	2.00 8.4	0.82 10.8	1.25 14.2	1.34 17.3	0.63 18.6	0.21 19.1
25.1 TO 26.0			0.33 1.1	1.19 3.1	0.59 4.6	0.37 6.2	0.72 8.4	0.70 10.1	0.42 10.9
26.1 TO 27.0			0.01 0.0	0.54 0.8	0.69 1.5	0.41 2.5	0.55 3.7	0.74 5.2	0.54 6.2
27.1 TO 28.0				0.03 0.0	0.15 0.2	0.05 0.3	0.12 0.9	0.28 1.5	0.50 2.3
28.1 TO 29.0					0.01 0.0	0.02 0.0	0.0 0.1	0.19 0.5	0.21 0.9
29.1 TO 30.0								0.02 0.0	0.07 0.3

Table 9(cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

SEPTEMBER 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7
21.1 TO 22.0	0.01 61.5							
22.1 TO 23.0	0.07 47.1							
23.1 TO 24.0	0.03 31.2	0.02 31.2						
24.1 TO 25.0	0.07 19.2	0.01 19.3						
25.1 TO 26.0	0.15 11.1	0.04 11.2	0.02 11.2					
26.1 TO 27.0	0.13 6.5	0.06 6.6	0.02 6.6					
27.1 TO 28.0	0.25 2.8	0.13 2.9	0.03 3.0	0.0 3.0	0.01 3.0			
28.1 TO 29.0	0.17 1.2	0.12 1.4	0.04 1.4					
29.1 TO 30.0	0.12 0.5	0.04 0.6	0.07 0.7	0.01 0.7				
30.1 TO 31.0	0.10 0.2	0.04 0.3	0.02 0.3					
31.1 TO 32.0	0.01 0.0	0.09 0.1	0.02 0.1	0.04 0.2	0.01 0.2			
32.1 TO 33.0		0.01 0.0				0.01 0.0		
33.1 TO 34.0						0.01 0.0		

Table 10 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

OCTOBER 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
9.1 TO 10.0	0.0 99.6	0.01 99.8	0.0 100.0	0.01 100.0					
10.1 TO 11.0	0.0 99.0	0.03 99.6	0.01 99.8	0.10 100.0	0.01 100.0				
11.1 TO 12.0	0.01 98.3	0.03 99.0	0.06 99.5	0.08 99.7	0.04 99.8	0.01 99.8			
12.1 TO 13.0	0.01 96.0	0.22 98.3	0.13 99.0	0.19 99.4	0.11 99.6	0.05 99.6			
13.1 TO 14.0	0.01 93.3	0.26 96.0	0.32 98.1	0.24 98.6	0.12 98.9	0.02 98.9			
14.1 TO 15.0	0.20 88.1	0.71 93.3	0.82 95.7	0.52 97.5	0.10 97.8	0.07 97.9			
15.1 TO 16.0	0.46 79.1	1.48 87.9	1.11 92.4	0.50 94.0	0.36 95.2	0.07 95.4	0.03 95.5		
16.1 TO 17.0	1.28 69.1	2.85 78.6	2.39 85.9	1.39 89.3	0.41 90.5	0.33 91.3	0.06 91.5	0.04 91.5	0.01 91.5
17.1 TO 18.0	1.65 49.0	7.97 67.8	2.78 74.5	1.86 79.4	0.72 81.4	0.34 82.1	0.24 82.7	0.04 82.7	0.01 82.8
18.1 TO 19.0	1.43 26.3	9.05 47.4	5.23 58.2	1.83 62.1	1.32 65.1	0.51 66.4	0.20 66.8	0.16 67.1	0.02 67.1
19.1 TO 20.0	0.35 10.0	6.20 24.9	6.37 36.9	2.58 42.5	0.90 44.6	0.72 46.3	0.38 47.0	0.09 47.2	0.09 47.4
20.1 TO 21.0	0.22 3.4	2.28 9.7	3.97 18.4	2.52 24.0	1.06 27.0	0.39 28.2	0.37 29.1	0.15 29.5	0.04 29.6
21.1 TO 22.0	0.0 0.7	0.97 3.2	2.25 7.2	2.66 11.9	1.56 15.0	0.87 16.9	0.43 17.7	0.36 18.3	0.16 18.6
22.1 TO 23.0		0.13 0.7	0.91 2.2	0.92 4.0	0.97 6.0	0.74 7.5	0.59 8.6	0.20 9.0	0.17 9.2
23.1 TO 24.0			0.31 0.5	0.38 1.2	0.38 2.0	0.62 3.1	0.40 3.9	0.29 4.3	0.12 4.5
24.1 TO 25.0				0.13 0.2	0.14 0.5	0.28 0.9	0.30 1.4	0.19 1.8	0.11 2.0
25.1 TO 26.0					0.06 0.1	0.05 0.2	0.11 0.4	0.03 0.5	0.08 0.7
26.1 TO 27.0						0.01 0.0	0.01 0.1	0.04 0.1	0.05 0.3
27.1 TO 28.0								0.03 0.1	0.01 0.1

Table 10(cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

OCTOBER 1958-71

GIBRALTAR

T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)						T (DEG C)
	T-7	T-8	T-9	T-10	T-11	T	
19.1 TO 20.0	0.09 47.2	0.09 47.4	0.02 47.4			0.0 0.001	10.0 8.99
20.1 TO 21.0	0.15 29.5	0.04 29.6	0.01 29.7	0.0 0.001	0.0 0.001	10.0 8.99	10.0 8.99
21.1 TO 22.0	0.36 18.3	0.16 18.6	0.01 18.6	0.02 18.7	0.0 0.001	10.0 8.99	10.0 8.99
22.1 TO 23.0	0.20 9.0	0.17 9.2	0.02 9.3	0.03 9.4	0.01 9.4	10.0 8.99	10.0 8.99
23.1 TO 24.0	0.29 4.3	0.12 4.5	0.07 4.6	0.04 4.7	0.03 4.7	10.0 8.99	10.0 8.99
24.1 TO 25.0	0.19 1.8	0.11 2.0	0.03 2.0	0.02 2.0	0.02 2.1	10.0 8.99	10.0 8.99
25.1 TO 26.0	0.03 0.5	0.08 0.7	0.05 0.8	0.02 0.8	0.0 0.0	10.0 8.99	10.0 8.99
26.1 TO 27.0	0.04 0.1	0.05 0.3	0.05 0.4	0.04 0.4	0.01 0.5	10.0 8.99	10.0 8.99
27.1 TO 28.0	0.03 0.1	0.01 0.1	0.04 0.2	0.04 0.2	0.01 0.2	10.0 8.99	10.0 8.99
28.1 TO 29.0	0.01 0.0			0.06 0.1	0.02 0.1	10.0 8.99	10.0 8.99
29.1 TO 30.0		0.01 0.0	0.01 0.0	0.01 0.0		10.0 8.99	10.0 8.99
30.1 TO 31.0				0.01 0.0		10.0 8.99	10.0 8.99

Table 11 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

NOVEMBER 1958-71

GIBRALTAR

DRY-BULB		ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
5.1 TO 6.0	0.01 99.8	0.0 100.0							
6.1 TO 7.0	0.07 99.3	0.01 99.8	0.0 99.9	0.03 100.0	0.01 100.0				
7.1 TO 8.0	0.02 98.1	0.01 99.3	0.10 99.7	0.07 99.9	0.01 99.9				
8.1 TO 9.0	0.01 96.4	0.26 98.1	0.35 99.2	0.24 99.6	0.05 99.7				
9.1 TO 10.0	0.02 93.8	0.43 96.4	0.35 97.8	0.47 98.6	0.11 98.8				
10.1 TO 11.0	0.13 89.6	0.72 93.8	0.77 96.0	0.44 97.0	0.24 97.4	0.04 97.4			
11.1 TO 12.0	0.32 83.2	1.29 89.4	1.59 92.9	0.64 94.3	0.42 95.0	0.08 95.0			
12.1 TO 13.0	0.69 72.9	2.54 82.9	1.80 87.8	0.95 89.8	0.40 90.5	0.14 90.7			
13.1 TO 14.0	0.91 57.2	4.36 72.2	3.14 79.7	1.45 82.8	0.28 83.8	0.21 84.1	0.07 84.2		
14.1 TO 15.0	0.83 40.5	4.80 56.3	5.63 67.0	2.20 71.3	0.74 72.9	0.38 73.6	0.10 73.8		
15.1 TO 16.0	1.03 24.4	5.16 39.7	4.84 50.6	2.25 55.7	1.09 57.8	0.51 58.7	0.17 59.0	0.02 59.1	0.01 59.1
16.1 TO 17.0	0.89 12.9	5.06 23.4	5.78 33.5	3.65 39.6	1.61 42.4	0.59 43.4	0.25 43.9	0.09 44.0	0.01 44.0
17.1 TO 18.0	0.12 3.8	3.64 12.0	3.55 17.4	2.30 21.8	1.38 24.2	0.76 25.4	0.35 25.9	0.10 26.0	0.05 26.1
18.1 TO 19.0	0.02 0.5	1.52 3.7	2.92 8.2	1.15 10.1	1.21 12.1	0.73 13.2	0.30 13.7	0.09 13.8	0.07 13.8
19.1 TO 20.0		0.32 0.5	0.99 2.2	0.88 3.8	0.48 4.5	0.53 5.3	0.17 5.7	0.10 5.8	0.01 5.8
20.1 TO 21.0		0.01 0.0	0.13 0.2	0.29 0.9	0.32 1.6	0.21 1.8	0.21 2.1	0.09 2.3	0.02 2.4
21.1 TO 22.0				0.03 0.1	0.29 0.5	0.25 0.8	0.02 0.9	0.04 1.0	0.05 1.1
22.1 TO 23.0					0.03 0.0	0.08 0.1	0.09 0.3	0.02 0.3	0.01 0.3
23.1 TO 24.0							0.03 0.0	0.03 0.1	0.01 0.1
24.1 TO 25.0									0.01 0.0

Table 11(cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

NOVEMBER 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
	T-9	T-10	T-11	T-12	T-13	T-14	T-15	T-16
21.1 TO 22.0	0.01 1.1							
22.1 TO 23.0	0.03 0.4	0.01 0.4						
23.1 TO 24.0	0.02 0.1	0.01 0.1						
24.1 TO 25.0								
25.1 TO 26.0			0.02 0.0					

Table 12 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
DECEMBER 1958-71 GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
1.1 to 2.0	0.0 99.8	0.01 100.0							
2.1 to 3.0	0.0 99.6	0.0 99.8	0.05 100.0	0.03 100.0					
3.1 to 4.0	0.0 99.3	0.02 99.6	0.03 99.8	0.06 99.9					
4.1 to 5.0	0.0 98.6	0.0 99.3	0.10 99.6	0.15 99.8	0.02 99.8				
5.1 to 6.0	0.01 97.6	0.07 98.6	0.12 99.3	0.16 99.5	0.04 99.5				
6.1 to 7.0	0.03 96.4	0.18 97.6	0.20 98.6	0.28 99.1	0.05 99.1				
7.1 to 8.0	0.12 93.2	0.67 96.4	0.31 97.4	0.41 98.1	0.17 98.4	0.03 98.4			
8.1 to 9.0	0.50 87.8	1.32 93.1	1.24 95.6	0.28 96.3	0.18 96.6	0.06 96.7			
9.1 to 10.0	0.67 78.9	2.45 87.3	2.27 91.3	0.72 92.6	0.20 92.9	0.12 93.1			
10.1 to 11.0	0.42 67.2	2.64 78.2	2.24 84.2	0.88 85.9	0.33 86.5	0.08 86.6	0.06 86.7		
11.1 to 12.0	0.69 55.5	3.01 66.8	3.95 75.2	2.06 78.9	0.58 79.7	0.12 80.0	0.09 80.0		
12.1 to 13.0	0.87 39.9	4.45 54.8	4.02 63.1	2.74 67.5	0.99 69.2	0.13 69.4	0.10 69.5	0.01 69.5	
13.1 to 14.0	1.04 23.1	5.63 39.0	5.36 49.5	2.66 53.8	1.15 55.4	0.44 56.1	0.05 56.2	0.03 56.2	
14.1 to 15.0	0.56 9.1	5.79 22.1	6.32 32.4	3.42 37.4	1.10 39.1	0.35 39.6	0.18 39.8	0.04 39.9	0.01 39.9
15.1 to 16.0	0.12 2.2	2.27 8.5	3.99 15.7	2.44 19.7	1.04 21.4	0.35 21.9	0.09 22.1	0.05 22.1	0.01 22.1
16.1 to 17.0	0.09 0.5	0.68 2.1	2.59 6.2	2.16 9.3	1.28 10.9	0.46 11.5	0.14 11.7	0.08 11.8	0.01 11.8
17.1 to 18.0	0.01 0.0	0.34 0.4	0.51 1.3	0.96 2.8	0.69 3.8	0.24 4.1	0.13 4.3	0.03 4.3	0.01 4.3
18.1 to 19.0			0.04 0.1	0.15 0.5	0.35 1.0	0.30 1.3	0.05 1.4	0.01 1.4	

Table 12 (cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DECEMBER 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)						
	T-3	T-4	T-5	T-6	T-7	T-8	T-9
19.1 to 20.0	0.02 0.0	0.17 0.3	0.13 0.5	0.03 0.5	0.0 0.5	0.0 0.5	0.01 0.5
20.1 to 21.0		0.01 0.0	0.04 0.1	0.01 0.1			
21.1 to 22.0			0.02 0.0	0.04 0.1	0.01 0.1		

Table 13 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
ANNUAL 1958-71 GIBRALTAR

DRY-BULB		ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
T (DEG C)		T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
1.1 to 2.0	0.0	0.00+								
	100.0	100.0								
2.1 to 3.0	0.00+	0.0	0.00+	0.00+						
	99.9	100.0	100.0	100.0						
3.1 to 4.0	0.00+	0.01	0.01	0.01						
	99.9	99.9	100.0	100.0						
4.1 to 5.0	0.0	0.01	0.01	0.02	0.00+					
	99.7	99.9	99.9	100.0	100.0					
5.1 to 6.0	0.00+	0.01	0.02	0.02	0.00+					
	99.5	99.7	99.9	99.9	99.9					
6.1 to 7.0	0.01	0.04	0.04	0.05	0.02	0.00+				
	99.1	99.5	99.7	99.8	99.9	99.9				
7.1 to 8.0	0.03	0.13	0.10	0.08	0.04	0.01	0.00+			
	98.3	99.1	99.4	99.6	99.7	99.7	99.7			
8.1 to 9.0	0.10	0.32	0.30	0.12	0.06	0.01				
	96.8	98.3	99.0	99.2	99.3	99.3				
9.1 to 10.0	0.14	0.64	0.52	0.23	0.06	0.03	0.00+			
	94.1	96.7	97.8	98.3	98.4	98.4	98.4			
10.1 to 11.0	0.17	0.84	0.74	0.29	0.10	0.02	0.01			
	90.0	94.0	95.9	96.5	96.7	96.8	96.8			
11.1 to 12.0	0.29	1.21	1.31	0.59	0.17	0.05	0.01	0.00+		
	84.8	89.8	93.0	94.2	94.5	94.6	94.6	94.6		
12.1 to 13.0	0.41	2.07	1.64	0.99	0.35	0.08	0.02	0.00+	0.00+	
	76.3	84.6	88.3	90.2	90.8	90.9	91.0	91.0	91.0	
13.1 to 14.0	0.53	2.85	3.15	1.21	0.45	0.15	0.04	0.01		
	66.5	75.9	82.1	84.2	85.1	85.3	85.4	85.4		
14.1 to 15.0	0.44	2.99	3.60	1.76	0.49	0.25	0.08	0.02	0.00+	
	56.6	65.9	72.5	75.5	76.5	76.9	77.0	77.0	77.0	
15.1 to 16.0	0.31	2.10	2.54	1.40	0.62	0.22	0.09	0.03	0.01	
	47.8	56.2	62.5	65.5	66.7	67.2	67.3	67.4	67.4	
16.1 to 17.0	0.32	1.74	2.65	1.88	0.87	0.37	0.14	0.05	0.01	
	41.3	47.5	53.8	57.5	59.1	59.8	60.0	60.1	60.1	
17.1 to 18.0	0.32	1.94	1.67	1.55	0.92	0.38	0.19	0.05	0.02	
	33.5	41.0	45.4	49.0	51.0	51.6	51.9	52.0	52.0	
18.1 to 19.0	0.38	1.88	1.94	1.09	0.99	0.54	0.18	0.07	0.02	
	25.5	33.2	38.7	41.5	43.6	44.5	44.9	45.0	45.0	
19.1 to 20.0	0.36	1.80	1.96	1.37	0.69	0.55	0.24	0.07	0.02	
	17.7	25.1	30.9	34.5	36.2	37.3	37.7	37.9	37.9	

Table 13 (cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
ANNUAL 1960-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
20.1 to 21.0	0.24 11.2	1.31 17.3	1.44 23.0	1.22 26.8	0.72 29.0	0.37 30.0	0.26 30.6	0.08 30.8	0.03 30.8
21.1 to 22.0	0.24 6.8	1.08 10.9	1.47 15.8	1.43 20.0	0.89 22.6	0.63 24.1	0.27 24.7	0.17 25.0	0.07 25.1
22.1 to 23.0	0.08 2.5	1.15 6.5	0.97 9.6	1.08 13.0	0.86 15.8	0.57 17.5	0.43 18.4	0.15 18.7	0.07 18.8
23.1 to 24.0	0.03 0.6	0.45 2.4	1.12 5.3	0.78 7.4	0.65 9.7	0.60 11.6	0.48 12.8	0.21 13.2	0.10 13.4
24.1 to 25.0	0.0 0.1	0.08 0.6	0.52 2.0	0.77 3.7	0.41 5.0	0.45 6.7	0.46 8.0	0.28 8.7	0.13 8.9
25.1 to 26.0		0.00+ 0.1	0.11 0.5	0.45 1.4	0.32 2.3	0.21 3.2	0.32 4.4	0.29 5.3	0.15 5.7
26.1 to 27.0			0.01 0.1	0.19 0.4	0.25 0.8	0.19 1.5	0.24 2.2	0.36 3.0	0.25 3.6
27.1 to 28.0				0.02 0.0	0.07 0.2	0.05 0.4	0.10 0.8	0.18 1.3	0.21 1.8
28.1 to 29.0				0.00+ 0.0	0.01 0.0	0.02 0.1	0.03 0.2	0.11 0.6	0.13 0.9
29.1 to 30.0						0.00+ 0.0	0.01 0.0	0.04 0.1	0.08 0.4
30.1 to 31.0							0.00+ 0.0	0.01 0.0	0.01 0.1
31.1 to 32.0									0.01 0.0
32.1 to 33.0									0.00+ 0.0

Table 13 (cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
ANNUAL 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)							
	T-9	T-10	T-11	T-12	T-13	T-14	T-15	T-16
16.1 to 17.0	0.00+ 60.1							
17.1 to 18.0	0.0 52.0							
18.1 to 19.0	0.00+ 45.0							
19.1 to 20.0	0.00+ 37.9	0.00+ 37.9						
20.1 to 21.0	0.01 30.8							
21.1 to 22.0	0.02 25.2	0.01 25.2						
22.1 to 23.0	0.03 18.9	0.00+ 18.9	0.00+ 18.9					
23.1 to 24.0	0.04 13.5	0.02 13.5	0.00+ 13.5					
24.1 to 25.0	0.04 9.0	0.01 9.0	0.00+ 9.0					
25.1 to 26.0	0.06 5.8	0.02 5.8	0.00+ 5.8					
26.1 to 27.0	0.11 3.8	0.04 3.9	0.01 3.9	0.00+ 3.9				
27.1 to 28.0	0.15 2.1	0.06 2.2	0.01 2.2	0.00+ 2.2	0.00+ 2.3			
28.1 to 29.0	0.14 1.1	0.10 1.3	0.04 1.4	0.00+ 1.4	0.00+ 1.4	0.00+ 1.4		
29.1 to 30.0	0.08 0.6	0.07 0.7	0.05 0.8	0.01 0.8	0.00+ 0.8			
30.1 to 31.0	0.07 0.3	0.05 0.3	0.03 0.4	0.02 0.4	0.01 0.5			
31.1 to 32.0	0.02 0.1	0.06 0.2	0.03 0.2	0.02 0.2	0.01 0.3	0.00+ 0.3		
32.1 to 33.0	0.00+ 0.0	0.01 0.0	0.02 0.1	0.01 0.1	0.01 0.1	0.00+ 0.1	0.0 0.1	0.00+ 0.1
33.1 to 34.0		0.00+ 0.0	0.01 0.0	0.01 0.0	0.00+ 0.0	0.00+ 0.1	0.0 0.1	0.00+ 0.1
34.1 to 35.0	0.00+ 0.0			0.01 0.0	0.00+ 0.0	0.00+ 0.0	0.00+ 0.0	0.00+ 0.0

Table 13 (cont) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

ANNUAL 1958-71

GIBRALTAR

DRY-BULB T (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)					
	T-9	T-10	T-11	T-12	T-13	T-14
35.1 to 36.0	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+
	0.0	0.0	0.0	0.0	0.0	0.0
36.1 to 37.0		0.00+	0.00+	0.00+	0.00+	0.00+
		0.0	0.0	0.0	0.0	0.0
37.1 to 38.0						0.00+
						0.0

TABLE 14

PERCENTAGE FREQUENCY OF HOURLY DRY-BULB TEMPERATURES GIBRALTAR 1958-71

Dry Bulb Temperature (°C)	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
1.1 TO 2.0	0.0+											0.0+	0.0+
2.1 TO 3.0	0.2	0.0+										0.1	0.0+
3.1 TO 4.0	0.2	0.1										0.1	0.0+
4.1 TO 5.0	0.2	0.1	0.0+								0.0+	0.3	0.0+
5.1 TO 6.0	0.7	0.3	0.1								0.1	0.4	0.1
6.1 TO 7.0	1.6	0.7	0.4								0.1	0.7	0.2
7.1 TO 8.0	3.0	1.8	1.2	0.1							0.2	1.7	0.4
8.1 TO 9.0	4.5	3.9	2.2	0.9	0.0+						0.9	3.6	0.9
9.1 TO 10.0	6.1	5.7	3.3	1.5	0.2					0.0+	1.4	6.4	1.6
10.1 TO 11.0	10.1	8.5	6.5	3.0	0.4					0.1	2.3	6.6	2.1
11.1 TO 12.0	15.3	15.1	9.5	5.5	0.9					0.2	4.3	10.5	3.6
12.1 TO 13.0	19.6	23.6	17.7	9.6	2.4					0.7	6.5	13.3	5.5
13.1 TO 14.0	18.9	19.6	20.7	14.9	5.9	0.1			0.0+	1.0	10.4	16.3	8.3
14.1 TO 15.0	10.3	8.8	13.0	15.3	8.0	0.6	0.0+		0.1	2.4	14.7	17.8	9.6
15.1 TO 16.0	6.4	6.5	11.7	16.0	13.8	2.3	0.2		0.6	4.0	15.1	10.3	7.3
16.1 TO 17.0	2.2	2.8	6.4	11.8	16.1	9.4	0.9	0.0+	1.8	8.8	17.9	7.5	8.0
17.1 TO 18.0	0.7	1.4	3.8	8.9	14.2	14.2	3.8	0.3	4.1	15.6	12.3	2.9	7.1
18.1 TO 19.0	0.1	0.5	1.9	5.6	12.1	15.3	8.9	6.0	7.4	19.8	8.0	0.9	7.1
19.1 TO 20.0	0.1	0.1	0.2	1.0	8.5	11.7	10.6	9.7	12.9	17.7	3.5	0.4	7.1
20.1 TO 21.0	0.0+	0.0+	0.5	0.5	7.1	12.2	14.2	14.8	11.6	11.0	1.3	0.1	5.7
21.1 TO 22.0			0.2	0.2	4.7	9.6	14.1	14.4	14.4	9.3	0.7	0.1	6.3
22.1 TO 23.0			0.2	0.5	2.6	7.8	13.0	15.0	15.9	4.7	0.3	0.1	5.4
23.1 TO 24.0		0.0+	0.2	0.2	1.2	4.1	11.1	11.9	12.0	2.6	0.1	0.1	4.5
24.1 TO 25.0			0.0+	0.2	0.7	2.5	7.0	7.9	8.1	1.2	0.0+	0.1	3.2
25.1 TO 26.0			0.0+	0.0+	0.4	2.2	6.7	6.7	4.5	0.4	0.0+	0.1	1.9
26.1 TO 27.0			0.0+	0.0+	0.2	1.1	3.5	3.9	3.7	0.2	0.0+	0.1	1.7
27.1 TO 28.0			0.0+	0.0+	0.2	0.5	2.5	3.0	1.5	0.1	0.0+	0.1	0.9
28.1 TO 29.0				0.0+	0.2	0.3	1.6	1.8	0.8	0.1	0.0+	0.1	0.6
29.1 TO 30.0					0.1	0.1	0.9	1.1	0.3	0.0+	0.0+	0.2	0.3
30.1 TO 31.0					0.0+	0.1	0.7	0.7	0.2	0.0+	0.0+	0.2	0.2
31.1 TO 32.0					0.0+	0.1	0.2	0.4	0.2	0.0+	0.0+	0.1	0.1
32.1 TO 33.0						0.0+	0.1	0.2	0.0+	0.0+	0.0+	0.0+	0.0+
33.1 TO 34.0							0.1	0.1	0.1	0.0+	0.0+	0.0+	0.0+
34.1 TO 35.0							0.0+	0.1	0.1	0.0+	0.0+	0.0+	0.0+
35.1 TO 36.0							0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+
36.1 TO 37.0							0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+
37.1 TO 38.0								0.0+	0.0+	0.0+	0.0+	0.0+	0.0+

TABLE 15

PERCENTAGE FREQUENCY OF HOURLY WET-BULB TEMPERATURES GIBRALTAR 1958-71

Wet Bulb Temperature (°C)	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
-0.9 TO 0.0	0.1	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+	0.0+
0.1 TO 1.0	0.2	0.2	0.2	0.4	0.1	0.4	0.4	0.1	0.1	0.1	0.0+	0.1	0.0+
1.1 TO 2.0	0.3	0.4	0.5	0.7	0.5	0.9	0.9	0.2	0.2	0.2	0.0+	0.2	0.0+
2.1 TO 3.0	0.7	0.4	0.8	1.8	0.1	2.0	2.0	0.4	0.4	0.4	0.0+	0.4	0.1
3.1 TO 4.0	0.9	0.4	7.7	3.6	0.5	3.4	3.4	0.7	0.7	0.7	0.0+	0.6	0.1
4.1 TO 5.0	1.0	0.9	11.0	5.5	1.3	7.0	7.0	1.8	1.8	1.8	0.1	1.0	0.2
5.1 TO 6.0	2.0	2.0	13.1	10.9	2.5	11.0	11.0	3.6	3.6	3.6	0.5	1.2	0.3
6.1 TO 7.0	4.3	3.4	18.9	16.4	6.4	13.1	13.1	5.5	5.5	5.5	1.2	3.2	0.9
7.1 TO 8.0	6.7	7.0	19.7	22.3	12.5	22.3	22.3	10.9	10.9	10.9	1.7	5.4	1.5
8.1 TO 9.0	10.5	11.0	19.2	22.0	19.1	20.3	20.3	16.4	16.4	16.4	2.6	8.9	2.7
9.1 TO 10.0	13.2	13.1	11.2	22.3	18.1	11.9	11.9	22.0	22.0	22.0	4.2	11.7	4.1
10.1 TO 11.0	19.7	22.3	3.3	22.3	20.4	6.1	6.1	22.3	22.3	22.3	6.3	11.8	5.1
11.1 TO 12.0	19.1	20.3	1.0	22.3	12.1	0.9	0.9	22.3	22.3	22.3	10.3	15.6	8.5
12.1 TO 13.0	13.9	11.9	0.2	10.5	5.6	0.2	0.2	10.5	10.5	10.5	15.7	16.8	9.8
13.1 TO 14.0	5.1	6.1	0.0+	4.6	1.1	0.9	0.9	4.6	4.6	4.6	16.7	14.0	9.8
14.1 TO 15.0	1.6	0.9	0.0+	1.2	0.2	0.2	0.2	1.2	1.2	1.2	16.1	6.9	8.8
15.1 TO 16.0	0.5	0.2	0.0+	0.1	0.0+	0.0+	0.0+	0.7	0.7	0.7	11.5	1.7	6.5
16.1 TO 17.0	0.0+	0.0+	0.0+	0.1	0.0+	0.0+	0.0+	0.3	0.3	0.3	9.0	0.5	7.8
17.1 TO 18.0				0.1	12.1	21.0	10.6	8.6	15.9	20.1	3.3	0.0+	8.0
18.1 TO 19.0				0.0+	5.6	19.6	18.7	14.9	18.3	22.7	0.5		7.9
19.1 TO 20.0				0.0+	1.1	12.2	22.1	19.3	16.6	16.3	0.0+		6.5
20.1 TO 21.0				0.0+	0.2	4.8	16.3	17.6	11.3	6.6			4.5
21.1 TO 22.0				0.0+	0.0+	1.7	14.8	20.5	13.1	2.7			4.3
22.1 TO 23.0				0.0+	0.0+	0.1	6.7	10.8	5.6	0.7			2.0
23.1 TO 24.0				0.0+	0.0+	0.0+	1.9	3.1	1.4				0.5
24.1 TO 25.0				0.0+	0.0+	0.0+	0.4	0.2	0.0+				0.1
25.1 TO 26.0				0.1	0.1	0.1	0.1	0.2	0.0+				0.0+

