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METEOROLOGICAL OFFICE

London Road, Bracknell, Berkshire

CLIMATOLOGICAL MEMORANDUM 90

PERCENTAGE FREQUENCY OF HOURLY VALUES OF
DRY-BULB AND WET-BULB TEMPERATURES
AT ABERPORTH 1960-74

by

H.J. Baker and Joyce Laing

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CLIMATOLOGICAL MEMORANDUM NO. 90

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TO THE CLIMATE OF ABERPORTH 1960-74
BY H J BAKER AND JOYCE LAING

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

AT ABERPORTH 1960-74

Introduction

Hourly observations of dry-bulb and wet-bulb temperature were made at RAF Aberporth, Dyfed NGR SN 242521 during the 15 years 1960-74. 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 0.1 to 1.0 then $T-1$ is -0.9 to 0.0 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. Entries of 0.0† indicate values of less than .05 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 9.1 to 10.0 deg C and the associated wet-bulb temperature within the range 7.1 to 8.0 deg C (column $T-2$) is 0.39. The cumulative value in this 'box', 8.9 indicates that a dry-bulb temperature of 9.1 deg C or more and an associated wet-bulb temperature of 7.1 deg C or more occurred on 8.9 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:

2.89	2.28	0.39	0.04	0.03					
1.62	1.15	0.12	0.06	0.04	0.03				
0.06	0.23	0.04			0.03	0.02	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.



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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 15°C is (from table 14):

$$\begin{aligned} & 1.7 \times (1/2) \times (744/100) = 6.3 \\ & 1.3 \times (3/2) \times (744/100) = 14.5 \\ & 0.8 \times (5/2) \times (744/100) = 14.9 \\ & 0.4 \times (7/2) \times (744/100) = 10.4 \\ & 0.3 \times (9/2) \times (744/100) = 10.0 \\ & 0.2 \times (11/2) \times (744/100) = 8.2 \\ & 0.1 \times (13/2) \times (744/100) = 4.8 \\ & 0.1 \times (15/2) \times (744/100) = 5.6 \end{aligned}$$

74.7

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.

Memoranda containing similar data for other stations in the United Kingdom are published in this series (see list inside the front cover).

10.0	10.0	50.0	40.0	30.0	20.0	10.0	0.0
10.0	50.0	40.0	30.0	20.0	10.0	0.0	0.0
10.0	50.0	40.0	30.0	20.0	10.0	0.0	0.0

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

JANUARY 1960-74

ABERPORTH

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
-9.9 TO -9.0	0.02								
	100.0								
-8.9 TO -8.0	0.01								
	100.0								
-7.9 TO -7.0	0.11								
	100.0								
-6.9 TO -6.0	0.09								
	99.9								
-5.9 TO -5.0	0.27	0.30							
	99.5	99.8							
-4.9 TO -4.0	0.27	0.50	0.02						
	98.6	99.2	99.2						
-3.9 TO -3.0	0.19	0.57	0.07						
	97.6	98.4	98.4						
-2.9 TO -2.0	0.22	0.73	0.21						
	96.4	97.4	97.6						
-1.9 TO -1.0	0.46	1.04	0.23	0.02					
	94.6	96.1	96.4	96.4					
-0.9 TO 0.0	0.95	1.84	0.49	0.04					
	91.6	94.1	94.7	94.7					
0.1 TO 1.0	0.91	2.42	0.67	0.01					
	86.8	90.7	91.4	91.4					
1.1 TO 2.0	1.58	3.53	1.35	0.04					
	81.1	85.9	87.3	87.4					
2.1 TO 3.0	1.71	3.48	1.13	0.07					
	74.1	79.5	80.8	80.9					
3.1 TO 4.0	1.91	4.75	1.77	0.11					
	65.4	72.3	74.4	74.5					
4.1 TO 5.0	2.63	5.73	1.98	0.25					
	55.5	63.5	65.7	65.9					
5.1 TO 6.0	3.92	5.81	2.20	0.13					
	44.5	52.8	55.2	55.3					
6.1 TO 7.0	5.50	6.47	2.41	0.13	0.01				
	32.9	40.5	43.1	43.3	43.3				

ignoring L 2% occurrence
of low temperatures is
Met 10°C below = 38%
from 10°C below = 28% hours/month
but believe these occur close
to down at night

Total No hours in January
= 744 hours

1% ≈ 7.5 hrs/month

Daylight hours Jan 12 hrs/day
≈ 372 hrs

1% ≈ 4 hrs/month

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

JANUARY 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
7.1 TO 8.0	3.97	6.03	1.09	0.13	0.01	0.02	0.01	0.01
	20.2	27.4	28.6	28.7	28.8	28.8	21.0	21.0
8.1 TO 9.0	3.23	4.10	1.05	0.03	0.03	0.02	0.01	0.01
	11.6	16.2	17.4	17.5	17.5	17.5	14.0	14.0
9.1 TO 10.0	2.89	2.28	0.39	0.04	0.03	0.01	0.00	0.00
	6.0	8.4	8.9	9.0	9.1	9.1	8.0	8.0
10.1 TO 11.0	1.62	1.15	0.12	0.06	0.04	0.03	0.01	0.01
	1.9	3.1	3.2	3.3	3.4	3.4	2.5	2.5
11.1 TO 12.0	0.06	0.23	0.04	0.0	0.0	0.03	0.01	0.01
	0.1	0.3	0.3	0.3	0.4	0.4	0.4	0.4
12.1 TO 13.0							0.02	0.01
							0.02	0.01
							0.0	0.0

No Hrs At which those temp & WB more
more (higher) occur

10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0
10.0	20.0	25.0	28.0	32.0	36.0	40.0	44.0	48.0

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

FEBRUARY 1960-74

ABERPORTH

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
-6.9 TO -6.0	0.0	0.01							
	100.0	100.0							
-5.9 TO -5.0	0.10	0.85	6.85	7.85	0.82	0.75	5.02		
	100.0								
-4.9 TO -4.0	0.16	1.09	7.71	4.71	4.71	5.01	45.6	0.09	0.71
	99.8	99.9							
-3.9 TO -3.0	0.13	0.32							
	99.3	99.6							
-2.9 TO -2.0	0.34	0.67	0.04	0.04	5.6	21.3	54.7	9.31	0.01
	98.3	99.1	99.2						
-1.9 TO -1.0	0.62	1.14	0.16	0.16	0.01	0.01	0.0	0.0	0.0
	96.2	98.0	98.1	98.1					
-0.9 TO 0.0	0.86	1.65	0.50						
	92.8	95.6	96.2						
0.1 TO 1.0	1.20	3.16	1.05						
	86.3	92.0	93.1						
1.1 TO 2.0	1.57	4.44	1.96	0.08					
	77.7	85.1	87.6	87.7					
2.1 TO 3.0	1.76	4.77	2.41	0.50	0.01				
	68.3	76.1	79.0	79.6	79.6				
3.1 TO 4.0	2.16	5.55	2.71	0.51	0.08				
	57.8	66.5	69.5	70.1	70.2				
4.1 TO 5.0	2.95	6.49	2.77	0.25	0.01				
	46.1	55.6	58.8	59.1	59.2				
5.1 TO 6.0	2.59	6.58	2.53	0.29	0.05	0.02			
	33.6	43.1	46.2	46.6	46.7	46.7			
6.1 TO 7.0	2.32	6.02	2.00	0.39	0.07	0.03	0.01		
	23.6	31.0	33.9	34.3	34.5	34.5	34.5		
7.1 TO 8.0	2.81	4.27	1.22	0.32	0.0	0.03	0.01		
	16.1	21.3	22.6	23.0	23.0	23.1	23.1		
8.1 TO 9.0	2.96	3.42	0.93	0.11	0.01	0.02	0.02	0.01	
	9.1	13.3	14.2	14.3	14.4	14.4	14.4	14.4	
9.1 TO 10.0	2.34	2.06	0.68	0.03	0.0	0.01	0.0	0.02	
	3.8	6.2	6.9	6.9	6.9	6.9	6.9	7.0	

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

MARCH 1960-74

ABERPORTH

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
-6.9 TO -6.0	0.01 100.0			0.00 0.1 0.1	75.0 8.1 8.1	50.0 8.1 8.1	81.0 8.0 8.0	0.11 OT 1.01 0.51 OT 1.11	
-5.9 TO -5.0	0.07 100.0	0.03 100.0							
-4.9 TO -4.0	0.01 99.9	0.02 99.9		50.0 4.0 4.0	60.0 4.0 4.0	80.0 4.0 4.0	90.0 4.0 4.0	0.01 OT 1.01 0.01 OT 1.01	
-3.9 TO -3.0	0.11 99.8	0.06 99.9		50.0 1.0 1.0	60.0 1.0 1.0	80.0 1.0 1.0	90.0 1.0 1.0	0.01 OT 1.01 0.01 OT 1.01	
-2.9 TO -2.0	0.04 99.5	0.16 99.7		50.0 1.0 1.0	60.0 1.0 1.0	80.0 1.0 1.0	90.0 1.0 1.0	0.01 OT 1.01 0.01 OT 1.01	
-1.9 TO -1.0	0.18 98.8	0.43 99.4	0.05 99.5						
-0.9 TO 0.0	0.46 97.3	0.64 98.6	0.17 98.3						
0.1 TO 1.0	0.62 93.9	1.25 96.8	0.54 97.5	0.02 97.6					
1.1 TO 2.0	0.82 38.7	2.26 93.2	1.35 95.0	0.16 95.1					
2.1 TO 3.0	1.08 81.1	3.66 87.9	1.70 90.2	0.32 90.5					
3.1 TO 4.0	1.75 71.9	4.02 89.0	2.23 83.1	0.47 83.7	0.07 83.8				
4.1 TO 5.0	2.40 60.2	5.83 70.1	3.22 74.2	0.58 75.1	0.06 75.2				
5.1 TO 6.0	3.49 47.1	6.34 57.3	2.99 61.9	0.63 62.8	0.17 63.0	0.02 63.1			
6.1 TO 7.0	3.23 33.1	6.73 43.6	3.28 48.0	0.89 49.1	0.22 49.3	0.05 49.4	0.02 49.4		
7.1 TO 8.0	3.53 20.6	6.16 29.9	2.56 33.0	0.73 34.7	0.13 34.9	0.02 35.0	0.01 35.0		
8.1 TO 9.0	2.44 10.1	4.80 17.0	2.22 20.2	0.78 21.3	0.25 21.6	0.04 21.7	0.02 21.8		
9.1 TO 10.0	1.49 3.4	2.56 7.7	1.25 9.8	0.58 10.7	0.19 11.0	0.06 11.2	0.03 11.2	0.02 11.2	

Table 3 (cont.) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

MARCH 1960-74

ABERPORTH

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
10.1 TO 11.0	0.04	0.57	1.01	0.37	0.25	0.10	0.05	0.01	
	0.6	1.9	3.6	4.5	4.8	5.0	5.0	5.0	
11.1 TO 12.0	0.0	0.14	0.31	0.31	0.25	0.08	0.02	0.0	0.01
	0.2	0.6	1.3	2.0	2.5	2.6	2.6	2.6	2.6
12.1 TO 13.0	0.0	0.04	0.06	0.13	0.16	0.13	0.01	0.0	0.01
	0.1	0.2	0.5	0.8	1.2	1.5	1.5	1.5	1.5
13.1 TO 14.0		0.0	0.02	0.04	0.05	0.08	0.09	0.01	
		0.1	0.2	0.4	0.6	0.9	1.0	1.0	
14.1 TO 15.0			0.0	0.03	0.06	0.04	0.06	0.01	
			0.1	0.2	0.3	0.5	0.7	0.7	
15.1 TO 16.0				0.01	0.04	0.03	0.05	0.06	0.01
				0.1	0.1	0.2	0.4	0.5	0.5
16.1 TO 17.0	0.01				0.02	0.03	0.03	0.01	
	0.3					0.1	0.1	0.2	0.3
17.1 TO 18.0						0.01	0.02	0.01	0.04
						0.0	0.1	0.1	0.2
18.1 TO 19.0	0.01	0.01					0.04	0.01	0.02
	0.1	0.1					0.0	0.0	0.1
19.1 TO 20.0		0.01	0.02						
		0.0	0.0						
20.1 TO 21.0			0.02						
			0.0						
21.1 TO 22.0				0.02					
				0.0					
22.1 TO 23.0					0.02				
					0.0				
23.1 TO 24.0						0.02			
						0.0			
24.1 TO 25.0							0.02		
							0.0		
25.1 TO 26.0								0.02	
								0.0	
26.1 TO 27.0									0.02
									0.0
27.1 TO 28.0									0.02
									0.0
28.1 TO 29.0									0.02
									0.0
29.1 TO 30.0									0.02
									0.0
30.1 TO 31.0									0.02
									0.0
31.1 TO 32.0									0.02
									0.0
32.1 TO 33.0									0.02
									0.0
33.1 TO 34.0									0.02
									0.0

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

APRIL 1960-74

ABERPORTH

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
-1.9 TO -1.0	0.06	0.01							
	100.0	100.0							
-0.9 TO 0.0	0.12	0.06							
	99.8	99.9							
0.1 TO 1.0	0.18	0.26	0.10						
	99.2	99.6	99.7						
1.1 TO 2.0	0.29	0.44	0.13						
	98.1	99.0	99.2						
2.1 TO 3.0	0.34	0.89	0.52	0.04					
	95.8	97.8	98.3	98.4					
3.1 TO 4.0	0.94	1.85	0.80	0.02					
	91.4	95.5	96.6	96.6					
4.1 TO 5.0	1.73	3.39	1.77	0.24					
	83.6	90.5	92.7	93.0					
5.1 TO 6.0	2.20	4.73	2.65	0.44	0.02				
	72.0	81.9	85.4	85.8	85.8				
6.1 TO 7.0	3.61	6.18	3.79	0.74	0.01				
	58.7	69.8	74.9	75.7	75.7				
7.1 TO 8.0	4.80	7.64	3.61	1.10	0.06				
	42.3	55.1	60.0	61.3	61.4				
8.1 TO 9.0	3.47	5.32	3.72	1.03	0.19	0.01			
	26.5	37.5	42.7	44.0	44.2	44.2			
9.1 TO 10.0	3.13	5.05	3.22	1.11	0.28	0.03			
	14.0	23.1	27.7	29.1	29.4	29.5			
10.1 TO 11.0	1.04	2.96	2.22	1.07	0.24	0.01			
	5.2	10.9	14.9	16.3	16.6	16.6			
11.1 TO 12.0	0.29	1.45	1.60	1.19	0.30	0.06			
	1.3	4.2	6.9	8.7	9.0	9.1			
12.1 TO 13.0	0.04	0.27	0.51	0.65	0.50	0.05			
	0.3	1.1	2.4	3.5	4.2	4.2			
13.1 TO 14.0	0.02	0.11	0.19	0.32	0.23	0.07	0.0	0.01	
	0.0	0.2	0.7	1.5	2.0	2.1	2.1	2.1	
14.1 TO 15.0			0.02	0.08	0.18	0.13	0.03	0.01	
			0.1	0.4	0.9	1.1	1.1	1.1	

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

APRIL 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T (DEG C)

15.1 TO 16.0

0.02 0.10 0.11 0.08 0.02
0.1 0.3 0.6 0.7 0.7

16.1 TO 17.0

0.05 0.05 0.08 0.02
0.1 0.2 0.3 0.4

17.1 TO 18.0

0.01 0.06 0.03 0.01
0.0 0.1 0.2 0.2

18.1 TO 19.0

0.01 0.03 0.03
0.0 0.0 0.1

60.0 62.0 68.0 66.0 60.0 61.0 67.0 68.0

61.0 62.0 68.5 68.1 60.5 61.0 67.0 68.0

63.0 65.1 67.2 68.5 60.0 61.0 67.0 68.0

60.0 62.0 68.5 67.5 60.0 61.0 67.0 68.0

60.0 62.0 68.5 68.0 60.0 61.0 67.0 68.0

60.0 62.0 68.5 68.0 60.0 61.0 67.0 68.0

60.0 62.0 68.5 68.0 60.0 61.0 67.0 68.0

60.0 62.0 68.5 68.0 60.0 61.0 67.0 68.0

60.0 61.0 68.0 68.0 60.0 61.0 67.0 68.0

60.0 62.0 68.5 68.0 60.0 61.0 67.0 68.0

60.0 61.0 68.0 68.0 60.0 61.0 67.0 68.0

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

MAY 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T (DEG C)

0.1 TO 1.0 0.01 0.01
100.0 100.01.1 TO 2.0 0.03 0.04
99.9 100.02.1 TO 3.0 0.04 0.04
99.9 99.93.1 TO 4.0 0.16 0.20
99.4 99.84.1 TO 5.0 0.37 0.44 0.14
98.4 99.3 99.55.1 TO 6.0 0.66 0.84 0.36 0.06
96.1 98.0 98.5 98.56.1 TO 7.0 1.51 2.49 0.75 0.11
90.4 95.5 96.5 96.67.1 TO 8.0 2.57 4.71 1.78 0.23
80.0 88.9 91.5 91.78.1 TO 9.0 3.80 7.72 2.62 0.70 0.04
63.9 77.5 81.0 82.4 82.49.1 TO 10.0 4.31 8.21 3.78 1.06 0.09
44.7 60.1 66.0 67.5 67.610.1 TO 11.0 3.01 6.77 4.44 1.53 0.33 0.03
27.2 40.4 47.6 49.7 50.1 50.111.1 TO 12.0 1.77 4.64 3.95 1.97 0.35 0.08
15.2 24.1 30.6 33.4 33.9 34.012.1 TO 13.0 0.69 3.08 2.47 1.68 0.56 0.09 0.03
6.8 13.4 17.7 20.3 21.1 21.2 21.313.1 TO 14.0 0.12 1.04 2.00 1.08 0.55 0.16 0.06
2.6 6.1 9.7 11.5 12.3 12.6 12.614.1 TO 15.0 0.01 0.34 1.01 0.75 0.42 0.20 0.04
0.9 2.5 5.0 6.5 7.3 7.6 7.615.1 TO 16.0 0.0 0.04 0.31 0.67 0.40 0.13 0.08 0.03
0.3 0.9 2.2 3.6 4.4 4.7 4.8 4.916.1 TO 17.0 0.0 0.0 0.12 0.46 0.40 0.22 0.11 0.04
0.1 0.3 0.8 1.8 2.6 3.0 3.2 3.2

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

MAY 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
17.1 TO 18.0		0.01 0.1	0.06 0.3	0.17 0.7	0.22 1.2	0.13 1.6	0.13 1.8	0.09 1.9	
18.1 TO 19.0		0.01 0.1	0.03 0.2	0.08 0.5	0.11 0.8	0.12 1.0	0.03 1.0	0.01 1.0	
19.1 TO 20.0				0.0 0.1	0.06 0.2	0.09 0.4	0.07 0.6	0.07 0.7	0.01 0.7
20.1 TO 21.0				0.02 0.0	0.02 0.1	0.03 0.1	0.04 0.2	0.04 0.3	
21.1 TO 22.0		0.01 0.2				0.01 0.0	0.04 0.1	0.04 0.1	0.03 0.2
22.1 TO 23.0	0.04 0.1	0.02 0.1					0.01 0.0	0.01 0.0	

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

JUNE 1960-74

ABERPORTH

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
2.1 TO 3.0	0.0	0.02							
	100.0	100.0							
3.1 TO 4.0	0.0								
	100.0								
4.1 TO 5.0	0.03	0.03	0.01						
	99.9	100.0	100.0						
5.1 TO 6.0	0.11	0.09	0.02						
	99.7	99.9	99.9						
6.1 TO 7.0	0.22	0.27	0.04	0.02					
	99.2	99.6	99.7	99.7					
7.1 TO 8.0	0.65	0.57	0.12	0.01					
	97.9	99.0	99.1	99.1					
8.1 TO 9.0	0.95	1.39	0.40	0.03					
	94.5	97.2	97.8	97.8					
9.1 TO 10.0	2.03	3.39	0.94	0.13					
	86.8	93.6	94.9	95.0					
10.1 TO 11.0	3.77	5.32	2.30	0.31	0.01				
	74.2	84.8	88.1	88.5	88.5				
11.1 TO 12.0	3.98	6.70	3.56	0.31	0.06	0.01			
	57.2	70.5	75.7	76.7	76.8	76.8			
12.1 TO 13.0	3.86	7.25	3.89	1.21	0.19	0.02			
	38.7	53.2	59.3	51.4	51.7	51.7			
13.1 TO 14.0	2.92	5.53	4.13	1.97	0.39	0.06			
	22.3	34.8	42.1	44.8	45.2	45.3			
14.1 TO 15.0	1.48	3.59	3.97	2.15	0.56	0.05			
	10.8	19.4	26.4	29.5	30.2	30.3			
15.1 TO 16.0	0.22	1.93	2.28	1.85	0.67	0.11	0.01		
	4.1	9.3	14.3	17.3	18.3	18.5	18.5		
16.1 TO 17.0	0.09	0.59	1.44	1.56	0.61	0.24	0.03		
	1.7	3.9	7.1	9.9	11.0	11.4	11.4		
17.1 TO 18.0	0.01	0.31	0.45	0.91	0.56	0.32	0.08	0.01	
	0.4	1.6	3.2	5.0	6.2	6.7	6.9	6.9	
18.1 TO 19.0	0.0	0.04	0.23	0.41	0.55	0.31	0.09	0.04	
	0.2	0.4	1.3	2.4	3.3	3.9	4.2	4.2	

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

JUNE 1960-74 HYDROGRAPH

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
19.1 TO 20.0		0.01 0.2	0.01 0.4	0.26 1.0	0.37 1.8	0.11 2.1	0.21 2.4	0.10 2.6	0.01 2.6
20.1 TO 21.0			0.03 0.2	0.06 0.4	0.12 0.8	0.17 1.1	0.11 1.4	0.05 1.4	0.04 1.5
21.1 TO 22.0				0.03 0.1	0.06 0.3	0.11 0.6	0.06 0.7	0.08 0.9	0.04 0.9
22.1 TO 23.0					0.01 0.1	0.05 0.2	0.06 0.4	0.09 0.5	0.04 0.5
23.1 TO 24.0						0.01 0.1	0.03 0.1	0.05 0.2	0.03 0.3
24.1 TO 25.0							0.03 0.1	0.02 0.1	0.05 0.1
25.1 TO 26.0								0.01 0.0	0.04 0.1
26.1 TO 27.0									0.01 0.0
	T-9								
22.1 TO 23.0		0.01 0.5	0.01 0.5	0.05 0.5	0.05 0.5	0.15 0.25	0.05 0.15	0.01 0.05	0.01 0.21
23.1 TO 24.0		0.01 0.3	0.01 0.3	0.01 0.3	0.01 0.3	0.01 0.3	0.01 0.3	0.01 0.3	0.01 0.3

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

JULY 1960-74

ABERPORTH

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	
5.1 TO 6.0	0.01	100.0	11.0	78.0	65.0	10.0	10.0	0.05	0.11	
6.1 TO 7.0	0.01	0.01	100.0	100.0	51.0	30.0	60.0	0.15	0.29	
7.1 TO 8.0	0.05	0.03	99.9	100.0	30.0	30.0	30.0	0.39	0.15	
8.1 TO 9.0	0.22	0.07	99.7	99.9	10.0	8.0	1.0	0.25	0.55	
9.1 TO 10.0	0.68	0.63	0.06	98.1	99.5	99.6		0.45	0.65	
10.1 TO 11.0	1.26	2.37	0.63	0.04	92.4	97.4	98.1	98.2	0.65	0.45
11.1 TO 12.0	2.35	4.68	1.97	0.08	81.2	91.2	93.7	93.8	0.65	0.45
12.1 TO 13.0	5.21	7.05	3.45	0.51	64.5	78.3	83.6	84.2	0.75	0.65
13.1 TO 14.0	5.01	3.54	4.23	1.41	43.9	59.3	65.1	67.9	68.0	
14.1 TO 15.0	3.92	7.90	4.42	2.03	24.8	38.9	45.8	48.3	48.8	
15.1 TO 16.0	1.51	5.12	3.53	1.79	10.8	20.9	27.0	29.5	30.0	30.1
16.1 TO 17.0	0.50	2.54	3.18	2.00	3.7	9.3	14.2	16.9	17.6	17.6
17.1 TO 18.0	0.13	0.86	1.33	1.26	1.0	3.2	6.2	8.0	8.7	8.8
18.1 TO 19.0	0.03	0.13	0.55	0.62	0.3	0.9	2.2	3.4	4.0	4.1
19.1 TO 20.0	0.0	0.01	0.19	0.38	0.1	0.2	0.7	1.5	2.1	2.2
20.1 TO 21.0			0.0	0.07	0.0	0.03	0.5	0.9	1.1	1.2
21.1 TO 22.0			0.0	0.04	0.0	0.03	0.2	0.4	0.6	0.7

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

JULY 1960-74 ABERPORTH

ABERPORTH 1960-74

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
22.1 TO 23.0		0.0	0.02	0.13	0.04	0.04	0.04	
		0.1	0.2	0.3	0.4	0.4	0.4	
23.1 TO 24.0			0.04	0.04	0.04	0.04	0.01	
			0.1	0.1	0.2	0.2	0.2	
24.1 TO 25.0				0.001	0.01	0.01	0.0	
				0.0	0.1	0.1	0.1	
25.1 TO 26.0				10.0	85.0	11.0	0.0	
				0.00	0.00	0.00	0.02	
26.1 TO 27.0				01.0	56.0	12.0	0.01	
				0.00	0.00	0.00	0.01	
				1.80	1.80	1.80	0.0	
				51.0	06.1	47.0	0.51	
				0.20	0.20	0.20	0.20	
				42.0	10.0	41.0	0.41	
				0.38	0.38	0.38	0.38	
				50.0	00.1	47.0	0.50	
				0.20	0.20	0.20	0.20	
				19.0	88.0	12.0	0.19	
				0.02	0.02	0.02	0.02	
				2.3	2.3	2.3	2.3	
				56.0	12.0	70.0	0.56	
				0.00	0.00	0.00	0.00	
				5.00	5.00	5.00	5.00	
				51.0	22.0	22.0	0.51	
				0.01	0.01	0.01	0.01	
				16.0	15.0	15.0	0.16	
				0.01	0.01	0.01	0.01	
				40.0	11.0	42.0	0.40	
				0.00	0.00	0.00	0.00	
				7.00	7.00	7.00	7.00	
				40.0	00.0	45.0	0.40	
				0.00	0.00	0.00	0.00	
				5.00	5.00	5.00	5.00	
				11.0	81.0	11.0	0.11	
				0.01	0.01	0.01	0.01	
				20.0	00.0	41.0	0.20	
				0.01	0.01	0.01	0.01	

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

AUGUST 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)	WET-BULB TEMPERATURE (DEG C)								DAYS	
	T-0	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8	(3000)
5.1 TO 6.0	0.02									0.15 OF 1.85
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
6.1 TO 7.0	0.0	0.02								0.45 OF 1.85
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
7.1 TO 8.0	0.08	0.04	0.01							0.85 OF 1.85
	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
8.1 TO 9.0	0.11	0.26	0.01							0.85 OF 1.85
	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
9.1 TO 10.0	0.57	0.62	0.13							0.15 OF 1.85
	98.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
10.1 TO 11.0	0.97	1.58	0.25	0.04						
	94.3	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	
11.1 TO 12.0	2.11	3.74	1.38	0.12						
	85.1	93.3	95.2	95.3	95.3	95.3	95.3	95.3	95.3	
12.1 TO 13.0	3.58	7.19	3.01	0.44						
	68.3	83.0	87.5	88.0	88.0	88.0	88.0	88.0	88.0	
13.1 TO 14.0	5.15	8.46	4.74	1.09	0.07					
	47.6	64.7	72.2	73.7	73.8	73.8	73.8	73.8	73.8	
14.1 TO 15.0	4.51	7.57	5.47	2.14	0.33	0.01				
	29.2	42.4	51.1	53.9	54.2	54.2	54.2	54.2	54.2	
15.1 TO 16.0	2.62	5.05	3.49	2.37	0.51	0.02				
	13.8	24.7	30.3	33.5	34.2	34.2	34.2	34.2	34.2	
16.1 TO 17.0	0.83	3.32	3.00	1.54	0.55	0.13				
	5.0	11.2	16.4	18.6	19.4	19.6	19.6	19.6	19.6	
17.1 TO 18.0	0.11	0.89	1.47	1.29	0.47	0.21	0.01			
	1.6	4.1	7.0	9.2	9.9	10.2	10.2	10.2	10.2	
18.1 TO 19.0	0.0	0.14	0.91	0.82	0.56	0.11	0.04			
	0.7	1.5	3.1	4.6	5.5	5.7	5.7	5.7	5.7	
19.1 TO 20.0	0.0	0.0	0.16	0.37	0.37	0.23	0.06	0.04		
	0.3	0.7	1.3	2.1	2.7	3.0	3.1	3.2	3.2	
20.1 TO 21.0	0.0	0.0	0.02	0.14	0.19	0.18	0.11			
	0.1	0.3	0.7	1.2	1.6	1.8	1.9	1.9	1.9	
21.1 TO 22.0	0.0	0.0	0.05	0.14	0.08	0.05				
	0.1	0.3	0.6	1.0	1.2	1.3	1.3	1.3	1.3	

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

AUGUST 1960-74

ABERPORTH - 0801 H.M.N.T.H.G.

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
22.1	T0 23.0	0.01 0.0	0.0 0.1	0.04 0.3	0.12 0.6	0.14 0.8	0.05 0.9	0.03 0.9		
23.1	T0 24.0			0.0 0.1	0.04 0.3	0.13 0.4	0.04 0.5	0.04 0.6		
24.1	T0 25.0				0.04 0.1	0.07 0.2	0.04 0.3	0.04 0.3	0.02 0.3	
25.1	T0 26.0					0.04 0.1	0.04 0.1	0.04 0.1	0.01 0.1	
26.1	T0 27.0						0.01 0.0			
27.1	T0 28.0							0.01 0.0	0.01 0.0	
		50.0 5.00	51.0 5.00	52.1 5.08	52.2 5.08	53.1 5.08	53.2 5.08	54.1 5.10	54.2 5.10	
		55.0 5.50	55.1 5.58	56.2 5.68	57.0 5.78	57.1 5.78	57.2 5.78	58.1 5.88	58.2 5.88	
		59.0 5.90	59.1 5.98	60.2 6.08	61.0 6.08	61.1 6.08	61.2 6.08	62.1 6.10	62.2 6.10	
		63.0 6.30	63.1 6.38	64.2 6.48	65.0 6.58	65.1 6.58	65.2 6.58	66.1 6.68	66.2 6.68	
		67.0 6.70	67.1 6.78	68.2 6.88	69.0 6.98	69.1 6.98	69.2 6.98	70.1 7.08	70.2 7.08	
		71.0 7.10	71.1 7.18	72.2 7.28	73.0 7.38	73.1 7.38	73.2 7.38	74.1 7.48	74.2 7.48	
		75.0 7.50	75.1 7.58	76.2 7.68	77.0 7.78	77.1 7.78	77.2 7.78	78.1 7.88	78.2 7.88	
		79.0 7.90	79.1 7.98	80.2 8.08	81.0 8.08	81.1 8.08	81.2 8.08	82.1 8.18	82.2 8.18	
		83.0 8.30	83.1 8.38	84.2 8.48	85.0 8.48	85.1 8.48	85.2 8.48	86.1 8.58	86.2 8.58	
		87.0 8.70	87.1 8.78	88.2 8.88	89.0 8.88	89.1 8.88	89.2 8.88	90.1 9.08	90.2 9.08	
		91.0 9.10	91.1 9.18	92.2 9.28	93.0 9.28	93.1 9.28	93.2 9.28	94.1 9.48	94.2 9.48	
		95.0 9.50	95.1 9.58	96.2 9.68	97.0 9.68	97.1 9.68	97.2 9.68	98.1 9.88	98.2 9.88	
		99.0 9.90	99.1 9.98	100.2 10.08	101.0 10.08	101.1 10.08	101.2 10.08	102.1 10.28	102.2 10.28	
		103.0 10.30	103.1 10.38	104.2 10.48	105.0 10.48	105.1 10.48	105.2 10.48	106.1 10.68	106.2 10.68	
		107.0 10.70	107.1 10.78	108.2 10.88	109.0 10.88	109.1 10.88	109.2 10.88	110.1 11.08	110.2 11.08	

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

SEPTEMBER 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T (DEG C)

T (DEG C)	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
4.1 TO 5.0	0.01							
	100.0							
5.1 TO 6.0	0.05	0.08						
	99.9	100.0						
6.1 TO 7.0	0.20	0.25	0.01					
	99.5	99.9	99.9					
7.1 TO 8.0	0.53	0.55	0.13					
	98.2	99.3	99.4					
8.1 TO 9.0	0.81	1.46	0.36					
	94.3	97.7	98.2					
9.1 TO 10.0	1.21	2.70	1.18	0.13				
	87.3	93.4	95.4	95.6				
10.1 TO 11.0	1.83	3.54	1.95	0.70	0.02			
	76.5	86.1	89.5	90.3	90.3			
11.1 TO 12.0	2.10	6.51	4.08	1.27	0.08			
	61.0	74.6	80.7	82.2	82.2			
12.1 TO 13.0	2.44	7.03	4.52	1.62	0.19			
	45.5	58.9	66.0	68.0	68.2			
13.1 TO 14.0	3.35	7.09	4.19	2.05	0.35	0.01		
	30.5	43.1	49.4	52.0	52.4	52.4		
14.1 TO 15.0	3.67	5.10	3.67	1.53	0.45	0.04		
	17.8	27.1	32.6	34.7	35.3	35.4		
15.1 TO 16.0	1.31	3.47	2.59	1.30	0.49	0.09	0.01	
	7.5	14.1	13.3	20.2	20.8	20.9	20.9	
16.1 TO 17.0	0.61	1.73	1.71	0.93	0.43	0.09	0.01	
	2.9	6.2	9.3	11.0	11.5	11.6	11.6	
17.1 TO 18.0	0.15	0.46	0.94	0.78	0.39	0.08	0.02	
	1.0	2.3	3.9	5.3	5.9	6.0	6.1	
18.1 TO 19.0	0.0	0.16	0.44	0.23	0.34	0.14	0.02	
	0.2	0.9	1.7	2.3	3.0	3.2	3.2	
19.1 TO 20.0	0.0	0.01	0.19	0.22	0.18	0.13	0.04	0.01
	0.1	0.2	0.7	1.1	1.5	1.8	1.9	1.9
20.1 TO 21.0		0.0	0.06	0.21	0.07	0.13	0.05	0.07
		0.1	0.2	0.5	0.7	0.9	1.1	1.1

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

SEPTEMBER 1960-74

ABERPORTH

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

21.1 TO 22.0

0.0 0.05 0.07 0.07 0.06 0.06
0.1 0.1 0.2 0.3 0.4 0.5

22.1 TO 23.0

0.0 0.0 0.03 0.02 0.02 0.02 0.06
0.1 0.1 0.1 0.1 0.2 0.2 0.2

23.1 TO 24.0

0.01 0.03
0.1 0.1

24.1 TO 25.0

0.01
0.1

25.1 TO 26.0

0.05 0.05 0.05 0.05 0.05 0.05

26.1 TO 27.0

0.01 0.01
0.0 0.0

27.1 TO 28.0

0.02
0.0

28.1 TO 29.0

0.01
0.010.0 10.0 10.0 10.0 10.0 10.0 10.0
1.00 1.00 1.00 1.00 1.00 1.00 1.0010.0 10.0 10.0 10.0 10.0 10.0 10.0
0.80 0.80 0.80 0.80 0.80 0.80 0.8010.0 10.0 10.0 10.0 10.0 10.0 10.0
0.60 0.60 0.60 0.60 0.60 0.60 0.6010.0 10.0 10.0 10.0 10.0 10.0 10.0
0.50 0.50 0.50 0.50 0.50 0.50 0.5010.0 10.0 10.0 10.0 10.0 10.0 10.0
0.40 0.40 0.40 0.40 0.40 0.40 0.4010.0 10.0 10.0 10.0 10.0 10.0 10.0
0.30 0.30 0.30 0.30 0.30 0.30 0.3010.0 10.0 10.0 10.0 10.0 10.0 10.0
0.20 0.20 0.20 0.20 0.20 0.20 0.2010.0 10.0 10.0 10.0 10.0 10.0 10.0
0.10 0.10 0.10 0.10 0.10 0.10 0.10

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

OCTOBER 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T (DEG C)

2.1 TO 3.0

0.0 0.06

99.9 100.0

3.1 TO 4.0

0.02 0.09 0.01

99.8 99.9 99.9

4.1 TO 5.0

0.13 0.36 0.01

98.9 99.8 99.8

5.1 TO 6.0

0.41 0.73 0.27 0.02

96.7 98.8 99.3 99.3

6.1 TO 7.0

1.07 1.55 0.66 0.19

92.2 96.3 97.7 97.9

7.1 TO 8.0

1.35 3.17 1.64 0.65 0.04

83.4 91.2 93.7 94.4 94.4

8.1 TO 9.0

1.67 4.11 3.50 0.62 0.02

72.4 82.0 86.7 87.6 87.6

9.1 TO 10.0

2.49 4.78 4.09 1.10 0.07

59.8 70.5 76.0 77.2 77.2

10.1 TO 11.0

3.08 6.04 4.26 1.26 0.04 0.01

46.6 57.3 63.2 64.7 64.7 64.7

11.1 TO 12.0

3.40 5.24 3.59 1.44 0.08

33.9 43.6 43.2 49.9 49.9

12.1 TO 13.0

3.71 5.89 2.54 0.88 0.16

21.8 30.5 33.9 35.0 35.2

13.1 TO 14.0

2.81 4.70 2.02 0.68 0.17 0.03

11.1 18.1 20.9 21.8 22.0 22.0

14.1 TO 15.0

1.37 3.08 1.67 0.63 0.18 0.02

3.9 8.3 10.6 11.4 11.6 11.6

15.1 TO 16.0

0.27 0.78 0.82 0.45 0.13 0.03

1.0 2.6 3.8 4.4 4.6 4.7

16.1 TO 17.0

0.01 0.22 0.48 0.30 0.15 0.05

0.2 0.8 1.5 2.0 2.1 2.2

17.1 TO 18.0

0.0 0.07 0.14 0.12 0.01

0.2 0.5 0.8 0.9 1.0

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

OCTOBER 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T (DEG C)

T-1 T-2 T-3 T-4 T-5 T-6 T-7 T-8

18.1 TO 19.0	0.04 0.2	0.22 0.5	0.07 0.6	0.04 0.6	0.01 0.6	0.01 0.6		
19.1 TO 20.0		0.05 0.1	0.04 0.2	0.04 0.3				
20.1 TO 21.0		0.02 0.0	0.02 0.1	0.04 0.1	0.02 0.1			
21.1 TO 22.0			0.01 0.0	0.02 0.0	0.01 0.0			
	50.0 5.50	52.5 6.80	55.0 7.80	57.5 8.80	60.0 9.80	62.5 10.80	65.0 11.80	
	51.0 5.10	53.0 6.10	56.0 7.00	58.0 8.00	61.0 9.00	63.0 10.00	66.0 11.00	
	51.5 5.50	53.5 6.50	56.5 7.50	58.5 8.50	61.5 9.50	63.5 10.50	66.5 11.50	
	52.0 5.20	54.0 6.20	57.0 7.20	59.0 8.20	62.0 9.20	64.0 10.20	67.0 11.20	
	52.5 5.75	54.5 6.75	57.5 7.75	59.5 8.75	62.5 9.75	64.5 10.75	67.5 11.75	
	53.0 5.30	55.0 6.30	58.0 7.30	60.0 8.30	63.0 9.30	65.0 10.30	68.0 11.30	
	53.5 5.85	55.5 6.85	58.5 7.85	60.5 8.85	63.5 9.85	65.5 10.85	68.5 11.85	
	54.0 5.40	56.0 6.40	59.0 7.40	61.0 8.40	64.0 9.40	66.0 10.40	69.0 11.40	
	54.5 5.45	56.5 6.45	59.5 7.45	61.5 8.45	64.5 9.45	66.5 10.45	69.5 11.45	
	55.0 5.50	57.0 6.50	60.0 7.50	62.0 8.50	65.0 9.50	67.0 10.50	70.0 11.50	
	55.5 5.55	57.5 6.55	60.5 7.55	62.5 8.55	65.5 9.55	67.5 10.55	70.5 11.55	
	56.0 5.60	58.0 6.60	61.0 7.60	63.0 8.60	66.0 9.60	68.0 10.60	71.0 11.60	
	56.5 5.65	58.5 6.65	61.5 7.65	63.5 8.65	66.5 9.65	68.5 10.65	71.5 11.65	
	57.0 5.70	59.0 6.70	62.0 7.70	64.0 8.70	67.0 9.70	69.0 10.70	72.0 11.70	
	57.5 5.75	59.5 6.75	62.5 7.75	64.5 8.75	67.5 9.75	69.5 10.75	72.5 11.75	
	58.0 5.80	60.0 6.80	63.0 7.80	65.0 8.80	68.0 9.80	70.0 10.80	73.0 11.80	
	58.5 5.85	60.5 6.85	63.5 7.85	65.5 8.85	68.5 9.85	70.5 10.85	73.5 11.85	
	59.0 5.90	61.0 6.90	64.0 7.90	66.0 8.90	69.0 9.90	71.0 10.90	74.0 11.90	
	59.5 5.95	61.5 6.95	64.5 7.95	66.5 8.95	69.5 9.95	71.5 10.95	74.5 11.95	
	60.0 6.00	62.0 6.00	65.0 6.00	67.0 6.00	70.0 6.00	72.0 6.00	75.0 6.00	

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

NOVEMBER 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)	D-T	T	C-T	T-1	D-T	T-2	C-T	T-3	S-T	T-4	I-T	T-5	T	T-6	D-T	WET-BULB T (DEG C)
-2.9 TO -2.0	0.04	0.02														0.01 DT 1.61
	100.0	100.0														
-1.9 TO -1.0	0.0	0.04														0.05 DT 1.61
	99.9	99.9														
-0.9 TO 0.0	0.19	0.19														0.15 DT 1.65
	50.0	50.0														
0.1 TO 1.0	0.36	0.47	0.06													0.55 DT 1.65
	98.6	99.5	99.5													
1.1 TO 2.0	0.39	0.80	0.30	0.02												
	96.6	98.2	98.6	98.6												
2.1 TO 3.0	0.74	1.65	0.61	0.13												
	92.8	96.2	97.0	97.1												
3.1 TO 4.0	1.45	2.34	1.35	0.17												
	87.1	92.1	93.8	94.0												
4.1 TO 5.0	1.84	3.65	1.93	0.39	0.01											
	78.7	85.0	88.3	88.7	88.7											
5.1 TO 6.0	1.45	4.95	2.68	0.53	0.04											
	65.0	75.9	80.1	80.3	80.9											
6.1 TO 7.0	1.98	5.56	5.24	0.56	0.04											
	52.0	63.5	70.5	71.0	71.1											
7.1 TO 8.0	2.42	5.84	5.06	1.67	0.01											
	40.2	50.0	56.0	57.7	57.7											
8.1 TO 9.0	2.69	4.91	3.18	0.91	0.05											
	29.7	37.8	41.7	42.6	42.7											
9.1 TO 10.0	3.60	4.27	2.66	0.69	0.02	0.01										
	21.2	27.0	30.2	30.9	31.0	31.0										
10.1 TO 11.0	3.23	4.34	1.33	0.45	0.06											
	12.1	17.6	19.2	19.7	19.7											
11.1 TO 12.0	2.21	2.49	1.01	0.26	0.04											
	5.9	8.9	10.0	10.2	10.3											

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

NOVEMBER 1960-74

ABERPOORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB		T-1	T-2	T-3	T-4	T-5	T-6	T-7
T (DEG C)		T-1	T-2	T-3	T-4	T-5	T-6	T-7
12.1	10 13.0	1.03 2.2	1.20 3.7	0.43 4.2	0.06 4.3	0.000 4.3	0.01 4.3	(0.000) 0
13.1	10 14.0	0.18 0.3	0.71 1.2	0.29 1.5	0.06 1.6	0.000 1.6	0.000 1.6	0.000 0
14.1	10 15.0	0.01 0.0	0.07 0.1	0.23 0.3	0.000 0.00	0.000 1.00	0.000 1.00	0.000 0
				00.0 1.00	50.0 0.00	11.0 0.00	0.000 0.00	0.000 0
				01.0 1.00	42.0 0.00	12.0 0.00	0.000 0.00	0.000 0
				00.0 1.00	00.1 0.00	10.0 0.00	0.000 0.00	0.000 0
				00.0 1.00	57.0 0.00	02.0 0.00	0.000 0.00	0.000 0
				16.0 1.00	55.0 0.00	02.5 1.00	01.1 0.00	0.000 0
				02.0 0.00	01.1 0.00	56.0 0.00	00.1 0.00	0.000 0
				03.0 0.00	00.5 0.00	20.0 1.00	00.1 0.00	0.000 0
				00.0 0.00	00.0 0.00	00.0 0.00	00.0 0.00	0.000 0
				50.0 1.00	20.0 0.00	01.0 0.00	00.5 0.00	0.000 0
				00.0 0.00	50.0 0.00	02.0 0.00	00.5 0.00	0.000 0
				00.0 0.00	50.0 0.00	02.0 0.00	00.5 0.00	0.000 0
				10.0 0.00	50.0 0.00	63.0 0.00	00.1 0.00	0.000 0
				02.0 0.00	01.0 0.00	50.0 0.00	00.1 0.00	0.000 0
				00.0 0.00	00.0 0.00	00.0 0.00	00.0 0.00	0.000 0

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

DECEMBER 1960-74

ABERPORTH

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
	6.31.74	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
-5.9 TO -5.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
-4.9 TO -4.0	0.09	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
-3.9 TO -3.0	0.14	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
-2.9 TO -2.0	0.17	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
	93.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
-1.9 TO -1.0	0.47	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
	97.4	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
-0.9 TO 0.0	1.01	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
	94.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
0.1 TO 1.0	0.89	2.29	0.72	0.04					
	90.0	93.4	94.3	94.3	94.3	94.3	94.3	94.3	94.3
1.1 TO 2.0	1.19	2.33	0.93	0.11					
	85.2	89.1	90.3	90.4	90.4	90.4	90.4	90.4	90.4
2.1 TO 3.0	1.49	2.88	1.18	0.25					
	78.6	84.0	85.0	85.8	85.8	85.8	85.8	85.8	85.8
3.1 TO 4.0	1.88	3.84	2.06	0.23					
	71.2	77.1	79.7	80.0	80.0	80.0	80.0	80.0	80.0
4.1 TO 5.0	2.37	5.56	1.86	0.43	0.09				
	60.4	69.3	71.4	71.9	72.0	72.0	72.0	72.0	72.0
5.1 TO 6.0	2.28	4.85	2.83	0.20	0.05	0.02			
	50.0	58.1	61.4	61.6	61.7	61.7	61.7	61.7	61.7
6.1 TO 7.0	2.57	5.29	2.88	0.42	0.03				
	39.5	47.7	50.9	51.4	51.5	51.5	51.5	51.5	51.5
7.1 TO 8.0	3.42	6.22	2.65	0.34	0.02	0.03			
	29.1	36.9	39.8	40.2	40.2	40.2	40.2	40.2	40.2
8.1 TO 9.0	4.21	4.89	1.51	0.13	0.03	0.01			
	19.7	25.6	27.3	27.5	27.6	27.6	27.6	27.6	27.6
9.1 TO 10.0	3.88	3.84	0.96	0.13	0.05	0.03			
	11.3	15.5	16.5	16.7	16.8	16.8	16.8	16.8	16.8

CHARTAQUET SUE-TIN GATAOOSA QUA KLU-BULB TO ASSOCIATED TEMPERATURES

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

DECEMBER 1960-74

ABERPORTH

(a) CHARTAQUET SUE-TIN GATAOOSA
ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)	D-T	E-T	A-T	S-T	T-1	T-2	T-3	T-4	T-5	T-6	T-7 (deg)	T-8	SLICE-YME
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8	T-9	T-10	T-11	T-12
10.1 TO 11.0	2.35 5.2	1.99 7.4	0.26 7.7	0.11 7.8	0.0 7.9	0.04 7.9	+00.0 +00.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
11.1 TO 12.0	1.43 1.8	0.98 2.8	0.22 3.1	0.06 3.1	0.0 3.1	0.0 3.2	0.0 10.3	0.0 2.2	0.01 0.0	0.01 0.0	0.0 0.0	0.0 0.0	0.0 0.0
12.1 TO 13.0	0.09 0.1	0.27 0.4	0.04 0.4	0.04 0.4	0.0 0.4	0.0 0.4	+00.0 +00.0	0.0 0.0	0.0 0.4	0.0 0.5	0.03 0.0	0.0 0.0	0.0 0.0
13.1 TO 14.0		0.02 0.0					+00.0 +00.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
							0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
							10.0 8.00	11.0 8.00	20.0 8.00	20.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							20.0 8.00	21.0 8.00	22.0 8.00	22.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							23.0 8.00	24.0 8.00	25.0 8.00	25.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							26.0 8.00	27.0 8.00	28.0 8.00	28.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							29.0 8.00	30.0 8.00	31.0 8.00	31.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							32.0 8.00	33.0 8.00	34.0 8.00	34.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							35.0 8.00	36.0 8.00	37.0 8.00	37.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							38.0 8.00	39.0 8.00	40.0 8.00	40.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							41.0 8.00	42.0 8.00	43.0 8.00	43.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							44.0 8.00	45.0 8.00	46.0 8.00	46.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							47.0 8.00	48.0 8.00	49.0 8.00	49.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							50.0 8.00	51.0 8.00	52.0 8.00	52.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							53.0 8.00	54.0 8.00	55.0 8.00	55.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							56.0 8.00	57.0 8.00	58.0 8.00	58.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							59.0 8.00	60.0 8.00	61.0 8.00	61.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							62.0 8.00	63.0 8.00	64.0 8.00	64.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							65.0 8.00	66.0 8.00	67.0 8.00	67.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							68.0 8.00	69.0 8.00	70.0 8.00	70.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							71.0 8.00	72.0 8.00	73.0 8.00	73.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							74.0 8.00	75.0 8.00	76.0 8.00	76.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							77.0 8.00	78.0 8.00	79.0 8.00	79.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							80.0 8.00	81.0 8.00	82.0 8.00	82.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							83.0 8.00	84.0 8.00	85.0 8.00	85.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							86.0 8.00	87.0 8.00	88.0 8.00	88.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							89.0 8.00	90.0 8.00	91.0 8.00	91.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							92.0 8.00	93.0 8.00	94.0 8.00	94.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							95.0 8.00	96.0 8.00	97.0 8.00	97.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0
							98.0 8.00	99.0 8.00	100.0 8.00	100.0 8.00	0.0 0.0	0.0 0.0	0.0 0.0

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

ANNUAL 1960-74

ABERPORTH

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
-9.9 TO -9.0	0.00+								
	100.0								
-8.9 TO -8.0	0.00+	90.0	0.0	11.0	66.0	22.1	2.5	0.11	0.01
	100.0	9.7	2.7	1.7	1.7	0.7	0.2		
-7.9 TO -7.0	0.01	0.0	0.0	20.0	55.0	39.0	6.1	0.51	0.11
	100.0	5.2	1.2	1.2	1.2	0.5	0.1		
-6.9 TO -6.0	0.01	0.00+	0.0	20.0	40.0	40.0	15.0	0.85	0.11
	100.0	100.0	4.0	4.0	4.0	4.0	1.0		
-5.9 TO -5.0	0.04	0.03							
	100.0	100.0							
-4.9 TO -4.0	0.04	0.07	0.00+						
	99.8	99.9	99.9						
-3.9 TO -3.0	0.05	0.11	0.01						
	99.6	99.8	99.8						
-2.9 TO -2.0	0.07	0.17	0.03						
	99.4	99.6	99.6						
-1.9 TO -1.0	0.15	0.27	0.05	0.00+					
	98.9	99.3	99.4	99.4					
-0.9 TO 0.0	0.30	0.50	0.13	0.00+					
	98.0	98.8	98.9	98.9					
0.1 TO 1.0	0.35	0.82	0.26	0.01					
	96.2	97.7	98.0	98.0					
1.1 TO 2.0	0.49	1.15	0.50	0.03					
	93.9	95.9	96.5	96.5					
2.1 TO 3.0	0.60	1.45	0.63	0.11	0.00+				
	90.9	93.5	94.2	94.4	94.4				
3.1 TO 4.0	0.86	1.89	0.92	0.13	0.01				
	87.0	90.3	91.4	91.6	91.6				
4.1 TO 5.0	1.20	2.62	1.14	0.18	0.02				
	81.8	86.1	87.5	87.7	87.8				
5.1 TO 6.0	1.43	2.92	1.39	0.20	0.03	0.00+			
	75.4	80.6	82.3	82.6	82.6	82.6			
6.1 TO 7.0	1.85	3.40	1.81	0.29	0.03	0.01	0.00+		
	68.4	73.9	76.3	76.6	76.6	76.6	76.6		

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

ANNUAL 1960-74

ABERPORTH

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
7.1 TO 8.0	2.18	3.77	1.67	0.43	0.02	0.01	0.00+		
	60.6	66.6	68.7	69.2	69.2	69.2	69.2		
8.1 TO 9.0	2.23	3.62	1.63	0.38	0.05	0.01	0.00+	0.00+	
	52.6	58.5	60.6	61.1	61.1	61.2	61.2	61.2	
9.1 TO 10.0	2.39	3.37	1.61	0.42	0.06	0.01	0.00+	0.00+	0.0
	44.6	50.4	52.6	53.1	53.2	53.2	53.2	53.2	53.2
10.1 TO 11.0	1.87	3.13	1.59	0.51	0.08	0.02	0.00+	0.00+	
	30.4	42.2	44.6	45.2	45.4	45.4	45.4	45.4	
11.1 TO 12.0	1.69	3.16	1.82	0.63	0.10	0.02	0.00+	0.00+	0.00+
	28.6	34.5	37.2	38.0	38.2	38.2	38.2	38.2	38.2
12.1 TO 13.0	1.72	3.28	1.75	0.60	0.15	0.03	0.01	0.00+	0.00+
	20.7	26.9	29.7	30.5	30.7	30.8	30.8	30.8	30.8
13.1 TO 14.0	1.63	3.02	1.82	0.73	0.16	0.03	0.01	0.00+	
	13.2	19.0	21.9	22.9	23.2	23.2	23.2	23.2	
14.1 TO 15.0	1.25	2.31	1.71	0.78	0.21	0.04	0.01	0.00+	
	7.3	11.6	14.3	15.4	15.7	15.8	15.8	15.8	
15.1 TO 16.0	0.49	1.42	1.09	0.70	0.23	0.05	0.02	0.01	0.00+
	3.1	6.0	8.0	9.1	9.4	9.5	9.5	9.5	9.5
16.1 TO 17.0	0.17	0.70	0.83	0.57	0.23	0.07	0.02	0.01	0.00+
	1.1	2.6	4.1	5.0	5.4	5.5	5.5	5.5	5.5
17.1 TO 18.0	0.03	0.21	0.40	0.38	0.18	0.07	0.03	0.01	0.00+
	0.3	1.0	1.8	2.4	2.7	2.9	2.9	2.9	2.9
18.1 TO 19.0	0.00+	0.04	0.18	0.19	0.17	0.07	0.03	0.01	0.00+
	0.1	0.3	0.7	1.1	1.4	1.5	1.6	1.6	1.6
19.1 TO 20.0		0.00+	0.05	0.11	0.12	0.06	0.03	0.02	0.00+
		0.1	0.3	0.5	0.7	0.8	0.9	0.9	0.9
20.1 TO 21.0			0.01	0.04	0.05	0.05	0.03	0.01	0.00+
			0.1	0.2	0.3	0.4	0.5	0.5	0.5
21.1 TO 22.0				0.01	0.03	0.03	0.03	0.02	0.01
				0.1	0.2	0.2	0.3	0.3	0.3
22.1 TO 23.0				0.00+	0.00+	0.01	0.03	0.02	0.01
				0.0	0.0	0.1	0.1	0.2	0.2

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

ANNUAL 1960-74

ABERPORTH

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)		T	T-1	T-2	T-3	S-T-4	T-5	T-6	T-7	T-8	
		+00.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	(0.004) T
23.1 TO 24.0		5.00	5.00	5.00	5.00	5.00	0.01	0.02	0.01	0.01	0.004
							0.0	0.1	0.1	0.1	0.1
24.1 TO 25.0		5.10	5.10	5.10	5.10	5.10	0.00+	0.01	0.01	0.00+	0.01
							0.0	0.0	0.0	0.0	0.0
25.1 TO 26.0		5.20	5.20	5.20	5.20	5.20	0.00+	0.01	0.01	0.01	0.01
							0.0	0.0	0.0	0.0	0.0
26.1 TO 27.0		5.30	5.30	5.30	5.30	5.30	0.00+	0.01	0.00+	0.00+	0.00
							0.0	0.0	0.0	0.0	0.0
27.1 TO 28.0		5.40	5.40	5.40	5.40	5.40	0.00+	0.00+	0.00+	0.00+	0.00
							0.0	0.0	0.0	0.0	0.0
28.1 TO 29.0		5.50	5.50	5.50	5.50	5.50	0.00	0.00+	0.00+	0.00+	0.00
							0.00	0.00	0.00	0.00	0.00
		5.45	5.45	5.45	5.45	5.45	0.01	0.01	0.01	0.01	0.01
							0.00	0.01	0.01	0.01	0.01
		5.35	5.35	5.35	5.35	5.35	0.01	0.01	0.01	0.01	0.01
							0.00	0.01	0.01	0.01	0.01
16.1 TO 17.0		0.00+	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.00
							0.00	0.00	0.00	0.00	0.00
17.1 TO 18.0		0.00	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.00
							0.00	0.00	0.00	0.00	0.00
18.1 TO 19.0		0.00+	0.00+	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.00
							0.00	0.00	0.00	0.00	0.00
19.1 TO 20.0		0.00+	0.00+	0.00+	1.0	1.0	1.0	1.0	1.0	1.0	0.00
							0.00	0.00	0.00	0.00	0.00
20.1 TO 21.0		0.0	0.0	0.0	0.0	0.0	0.00+	0.00	0.00	0.00	0.00
							0.0	0.0	0.0	0.0	0.0
21.1 TO 22.0		0.00+									0.00
			0.3								0.00
22.1 TO 23.0		0.00+	0.00+								0.00
			0.2								0.00
23.1 TO 24.0		0.00+		1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.00
				0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.00

$\Omega_0 = 100$ (per cent)

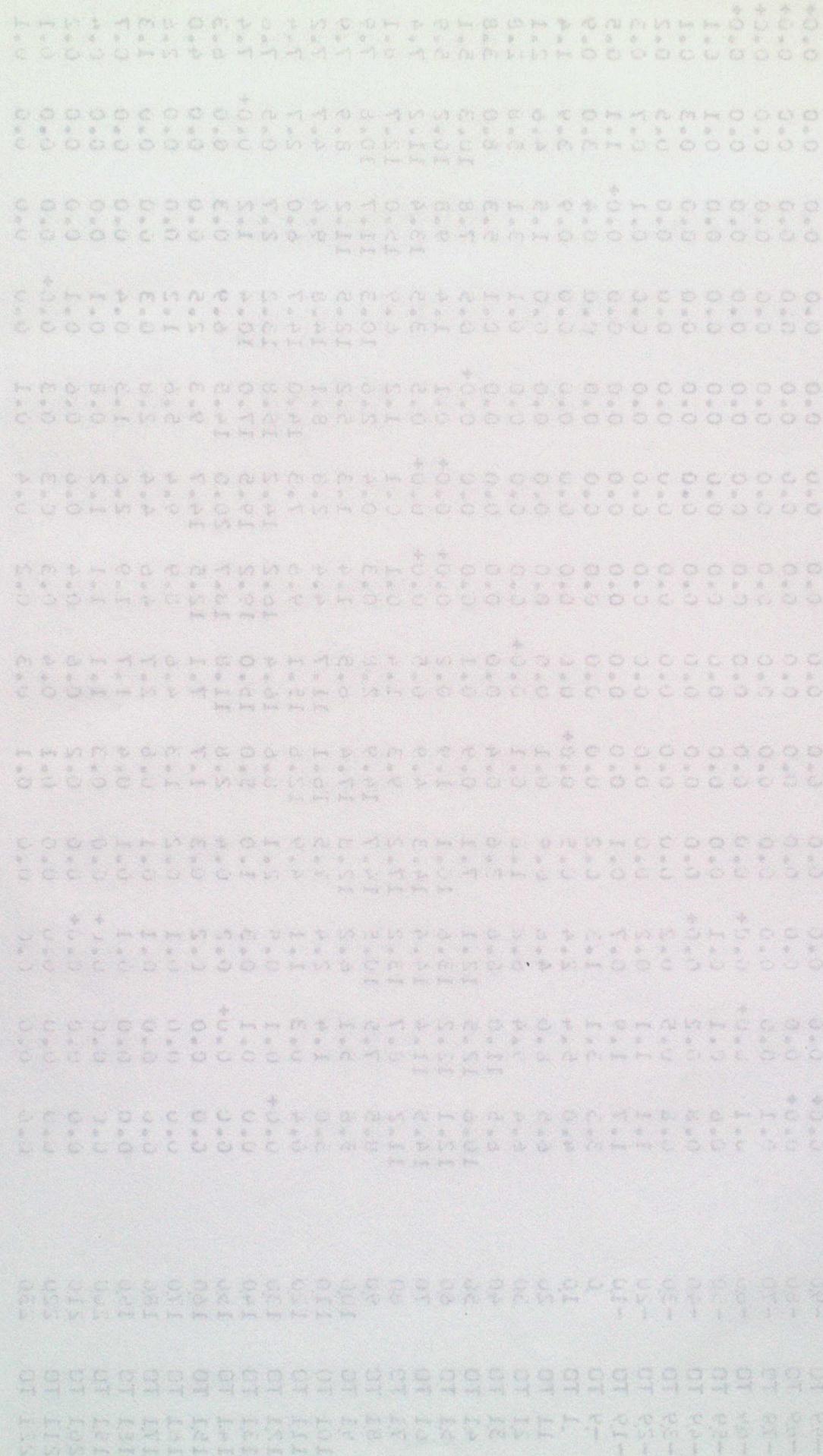


Fig. 1. The ratio of the luminosity function at redshift 0 to redshift 1, $L(0)/L(1)$, plotted against the redshift difference, $z(0) - z(1)$.

and the luminosity function at redshift 1, $L(1)$. The ratio $L(0)/L(1)$ is plotted against the redshift difference $z(0) - z(1)$ in Fig. 1. The data points are scattered around the line $L(0)/L(1) = 1.0$, with a slight positive correlation between the two variables. This indicates that the luminosity function at redshift 0 is slightly higher than at redshift 1 for most galaxies.

It is interesting to note that the luminosity function at redshift 0 is higher than at redshift 1 for most galaxies, while the luminosity function at redshift 1 is higher than at redshift 0 for a few galaxies. This suggests that the luminosity function at redshift 0 is more variable than at redshift 1, and that the luminosity function at redshift 1 is more variable than at redshift 0.

It is also interesting to note that the luminosity function at redshift 0 is higher than at redshift 1 for most galaxies, while the luminosity function at redshift 1 is higher than at redshift 0 for a few galaxies. This suggests that the luminosity function at redshift 0 is more variable than at redshift 1, and that the luminosity function at redshift 1 is more variable than at redshift 0.

It is also interesting to note that the luminosity function at redshift 0 is higher than at redshift 1 for most galaxies, while the luminosity function at redshift 1 is higher than at redshift 0 for a few galaxies. This suggests that the luminosity function at redshift 0 is more variable than at redshift 1, and that the luminosity function at redshift 1 is more variable than at redshift 0.

Table 14.

PERCENTAGE FREQUENCY OF HOURLY DRY-BULB TEMPERATURES

1950-74

ABERDEEN

DRY BULB TEMPERATURE (°C.)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
-9.9	TO	-9.0	6.0+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+
-8.9	TO	-8.0	6.0+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+
-7.9	TO	-7.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+
-6.9	TO	-6.0	6.0+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+
-5.9	TO	-5.0	6.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+
-4.9	TO	-4.0	6.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-3.9	TO	-3.0	6.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-2.9	TO	-2.0	6.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
-1.9	TO	-1.0	6.0	1.7	0.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.3
-0.9	TO	0	6.0	3.5	3.1	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.5
1.1	TO	1.0	6.0	4.0	5.4	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.9
1.1	TO	2.0	6.0	6.5	6.0	4.6	0.6	0.0	0.0	0.0	0.0	0.0	1.4
2.1	TO	3.0	6.0	6.4	9.4	6.8	1.8	0.1	0.0	0.0	0.0	0.0	2.1
3.1	TO	4.0	6.0	6.5	11.0	8.6	2.6	0.4	0.0	0.0	0.0	0.0	2.8
4.1	TO	5.0	6.0	10.6	12.5	12.1	7.1	0.9	0.1	0.0	0.0	0.0	3.8
5.1	TO	6.0	6.0	12.1	12.2	13.6	10.1	1.9	0.2	0.0	0.0	0.0	5.1
6.1	TO	7.0	6.0	14.5	11.4	14.4	14.3	4.9	0.5	0.0	0.0	0.0	5.9
7.1	TO	8.0	6.0	11.2	8.7	13.2	17.2	9.3	1.4	0.1	0.1	0.0	7.4
8.1	TC	9.0	6.0	8.5	7.5	10.5	14.7	14.9	2.8	0.3	0.4	0.0	8.1
9.1	TO	10.0	6.0	5.6	5.1	1.4	2.4	7.5	16.1	11.7	4.4	2.6	12.5
10.1	TO	11.0	6.0	5.0	1.4	1.1	4.9	12.6	15.1	9.6	1.3	0.4	10.3
11.1	TO	12.0	6.0	6.4	0.3	2.1	4.9	12.6	15.1	7.3	14.0	14.7	6.0
12.1	TO	13.0	6.0	6.0+	6.1	0.5	2.1	8.6	16.4	14.2	15.8	13.2	2.7
13.1	TO	14.0	6.0	6.0	0.1	0.3	1.0	5.0	15.0	19.2	17.0	10.4	0.0
14.1	TO	15.0	6.0	6.0+	0.2	0.4	2.8	11.8	13.7	20.0	14.5	6.9	0.3
15.1	TO	16.0	6.0	6.0	0.0	0.2	0.3	1.7	17.1	12.5	14.7	9.3	2.5
16.1	TO	17.0	6.0	6.0	0.0	0.1	0.2	1.3	4.6	3.9	5.6	1.2	0.0
17.1	TO	18.0	6.0	6.0	0.0	0.1	0.1	0.6	2.7	4.6	4.4	2.8	0.3
18.1	TO	19.0	6.0	6.0	0.0	0.1	0.1	0.4	1.7	1.9	1.3	0.4	0.7
19.1	TO	20.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
20.1	TU	21.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
21.1	TO	22.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
22.1	TO	23.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

 δ^+ = less than 0.05 percent.

Table 14 (cont) PERCENTAGE FREQUENCY OF HOURLY DRY-BULB TEMPERATURES ASBERPORTH 1950-74

	DRY BULB TEMPERATURE (°C)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
251	TO	24.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.0+	0.0+	0.0	0.0
241	TO	24.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0+	0.0+	0.0	0.0
251	TO	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+	0.0+	0.0	0.0
261	TO	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+	0.0+	0.0	0.0
271	TO	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+	0.0+	0.0	0.0
281	TO	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0+	0.0+	0.0	0.0
		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
		14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
		13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
		12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
		11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
		9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
		8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
		7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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	0.0

 \textcircled{O}^+ = less than 0.05 per cent

Table 15

PERCENTAGE FREQUENCY OF HOURLY WET-BULB TEMPERATURES. ABERPORTHY 1960-74

	WET BULB TEMPERATURE (°.0.1C)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
-99	TO	-9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-89	TO	-8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-79	TO	-7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-69	TO	-6.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-59	TO	-5.0	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-49	TO	-4.0	1.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-39	TO	-3.0	1.2	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-29	TO	-2.0	1.6	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-19	TO	-1.0	3.0	3.4	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-9	TO	0.0	4.5	6.0	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	TO	1.0	5.7	8.6	5.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	TO	2.0	7.1	9.4	7.6	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	TO	3.0	11.7	11.7	7.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	TO	4.0	10.5	12.5	13.1	11.6	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
41	TO	5.0	9.0	9.9	14.0	13.3	5.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
51	TO	6.0	11.6	9.9	14.0	12.5	16.4	10.3	1.3	0.0	0.0	0.0	0.0	0.0
61	TO	7.0	12.7	7.5	12.5	12.4	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
71	TO	8.0	8.5	6.9	10.4	10.4	15.8	16.1	3.4	0.2	0.5	0.0	0.0	0.0
81	TO	9.0	5.6	5.6	6.7	12.5	19.2	7.7	1.7	1.1	6.9	12.5	8.5	0.0
91	TO	10.0	4.1	1.9	2.7	8.8	17.6	12.6	5.6	4.1	10.9	13.2	9.0	0.0
101	TO	11.0	1.9	0.1	0.2	3.9	12.0	17.0	11.2	9.2	15.5	12.7	6.2	0.0
111	TO	12.0	0.1	0.1	0.2	1.1	8.4	16.5	16.7	1.7	1.1	6.9	12.1	3.7
121	TO	13.0	0.1	0.1	0.2	0.2	4.2	16.4	20.6	5.6	4.1	15.5	10.7	2.0
131	TO	14.0	0.0	0.0	0.0	0.0	0.0	1.7	11.5	19.1	18.4	12.7	7.2	0.2
141	TO	15.0	0.0	0.0	0.0	0.0	0.0	0.6	6.6	14.0	15.4	10.3	2.9	0.0
151	TO	16.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4	7.1	8.9	4.6	0.9	0.0
161	TO	17.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.4	1.9	0.2	0.0
171	TO	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.3	0.0	0.0
181	TO	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0
191	TO	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0
201	TO	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
211	TO	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Or less than 0.05 percent.