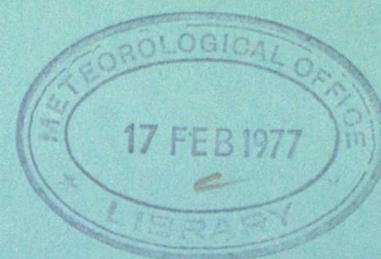


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METEOROLOGICAL OFFICE  
London Road, Bracknell, Berkshire.



123582

# CLIMATOLOGICAL MEMORANDUM 101

Percentage frequency of hourly values of  
dry-bulb and wet-bulb temperatures  
at Eskdalemuir 1960 - 74

by

H.J. Baker and Joyce Laing

25  
ORGS UKMO C Duplicate

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January 1977



## CLIMATOLOGICAL MEMORANDUM NO. 101

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

AT ESKDALEMUIR 1960-74

BY H J BAKER AND JOYCE LAING

#### Introduction

Hourly observations of dry-bulb and wet-bulb temperature were made at Eskdalemuir, Dumfries and Galloway, NGR NT 235026 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<sup>+</sup> 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 8.1 to 9.0 deg C and the associated wet-bulb temperature within the range 6.1 to 7.0 deg C (column  $T-2$ ) is 0.05. The cumulative value in this 'box', 2.2, indicates that a dry-bulb temperature of 8.1 deg C or more and an associated wet-bulb temperature of 6.1 deg C or more occurred on 2.2 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:

0.91	0.61	0.05	0.0	0.01
0.26	0.31	0.04	0.0	0.01
	0.04	0.01	0.02	

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  $15^{\circ}\text{C}$  is (from table 14):

1.6 x	(1/2) x	(744/100)	=	5.9
1.4 x	(3/2) x	(744/100)	=	15.6
0.9 x	(5/2) x	(744/100)	=	16.7
0.6 x	(7/2) x	(744/100)	=	15.6
0.5 x	(9/2) x	(744/100)	=	16.7
0.3 x	(11/2) x	(744/100)	=	12.3
0.1 x	(13/2) x	(744/100)	=	4.8
0 <sup>+</sup> x	(15/2) x	(744/100)	=	0.0
				87.6

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.

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



ASSOCIATED WET-BULB TEMPERATURES (in °)

DRY-BULB										W (in °)
8-7	7-6	6-5	5-4	4-3	3-2	2-1	1-0	0	1	
								0.00	0.00	-14.9 TO -14.0
								0.00	0.00	-13.9 TO -13.0
								0.00	0.00	-12.9 TO -12.0
								0.00	0.00	-11.9 TO -11.0
								0.00	0.00	-10.9 TO -10.0
								0.00	0.00	-9.9 TO -9.0
								0.00	0.00	-8.9 TO -8.0
								0.00	0.00	-7.9 TO -7.0
								0.00	0.00	-6.9 TO -6.0
								0.00	0.00	-5.9 TO -5.0
								0.00	0.00	-4.9 TO -4.0
								0.00	0.00	-3.9 TO -3.0
								0.00	0.00	-2.9 TO -2.0
								0.00	0.00	-1.9 TO -1.0
								0.00	0.00	0.0 TO 0.0
								0.00	0.00	0.1 TO 1.0
								0.00	0.00	1.1 TO 2.0
								0.00	0.00	2.1 TO 3.0
								0.00	0.00	3.1 TO 4.0
								0.00	0.00	4.1 TO 5.0
								0.00	0.00	5.1 TO 6.0
								0.00	0.00	6.1 TO 7.0
								0.00	0.00	7.1 TO 8.0
								0.00	0.00	8.1 TO 9.0
								0.00	0.00	9.1 TO 10.0
								0.00	0.00	10.1 TO 11.0
								0.00	0.00	11.1 TO 12.0
								0.00	0.00	12.1 TO 13.0
								0.00	0.00	13.1 TO 14.0
								0.00	0.00	14.1 TO 15.0
								0.00	0.00	15.1 TO 16.0
								0.00	0.00	16.1 TO 17.0
								0.00	0.00	17.1 TO 18.0
								0.00	0.00	18.1 TO 19.0
								0.00	0.00	19.1 TO 20.0
								0.00	0.00	20.1 TO 21.0
								0.00	0.00	21.1 TO 22.0
								0.00	0.00	22.1 TO 23.0
								0.00	0.00	23.1 TO 24.0
								0.00	0.00	24.1 TO 25.0
								0.00	0.00	25.1 TO 26.0
								0.00	0.00	26.1 TO 27.0
								0.00	0.00	27.1 TO 28.0
								0.00	0.00	28.1 TO 29.0
								0.00	0.00	29.1 TO 30.0
								0.00	0.00	30.1 TO 31.0
								0.00	0.00	31.1 TO 32.0
								0.00	0.00	32.1 TO 33.0
								0.00	0.00	33.1 TO 34.0
								0.00	0.00	34.1 TO 35.0
								0.00	0.00	35.1 TO 36.0
								0.00	0.00	36.1 TO 37.0
								0.00	0.00	37.1 TO 38.0
								0.00	0.00	38.1 TO 39.0
								0.00	0.00	39.1 TO 40.0
								0.00	0.00	40.1 TO 41.0
								0.00	0.00	41.1 TO 42.0
								0.00	0.00	42.1 TO 43.0
								0.00	0.00	43.1 TO 44.0
								0.00	0.00	44.1 TO 45.0
								0.00	0.00	45.1 TO 46.0
								0.00	0.00	46.1 TO 47.0
								0.00	0.00	47.1 TO 48.0
								0.00	0.00	48.1 TO 49.0
								0.00	0.00	49.1 TO 50.0
								0.00	0.00	50.1 TO 51.0
								0.00	0.00	51.1 TO 52.0
								0.00	0.00	52.1 TO 53.0
								0.00	0.00	53.1 TO 54.0
								0.00	0.00	54.1 TO 55.0
								0.00	0.00	55.1 TO 56.0
								0.00	0.00	56.1 TO 57.0
								0.00	0.00	57.1 TO 58.0
								0.00	0.00	58.1 TO 59.0
								0.00	0.00	59.1 TO 60.0
								0.00	0.00	60.1 TO 61.0
								0.00	0.00	61.1 TO 62.0
								0.00	0.00	62.1 TO 63.0
								0.00	0.00	63.1 TO 64.0
								0.00	0.00	64.1 TO 65.0
								0.00	0.00	65.1 TO 66.0
								0.00	0.00	66.1 TO 67.0
								0.00	0.00	67.1 TO 68.0
								0.00	0.00	68.1 TO 69.0
								0.00	0.00	69.1 TO 70.0
								0.00	0.00	70.1 TO 71.0
								0.00	0.00	71.1 TO 72.0
								0.00	0.00	72.1 TO 73.0
								0.00	0.00	73.1 TO 74.0
								0.00	0.00	74.1 TO 75.0
								0.00	0.00	75.1 TO 76.0
								0.00	0.00	76.1 TO 77.0
								0.00	0.00	77.1 TO 78.0
								0.00	0.00	78.1 TO 79.0
								0.00	0.00	79.1 TO 80.0
								0.00	0.00	80.1 TO 81.0
								0.00	0.00	81.1 TO 82.0
								0.00	0.00	82.1 TO 83.0
								0.00	0.00	83.1 TO 84.0
								0.00	0.00	84.1 TO 85.0
								0.00	0.00	85.1 TO 86.0
								0.00	0.00	86.1 TO 87.0
								0.00	0.00	87.1 TO 88.0
								0.00	0.00	88.1 TO 89.0
								0.00	0.00	89.1 TO 90.0
								0.00	0.00	90.1 TO 91.0
								0.00	0.00	91.1 TO 92.0
								0.00	0.00	92.1 TO 93.0
								0.00	0.00	93.1 TO 94.0
								0.00	0.00	94.1 TO 95.0
								0.00	0.00	95.1 TO 96.0
								0.00	0.00	96.1 TO 97.0
								0.00	0.00	97.1 TO 98.0
								0.00	0.00	98.1 TO 99.0
								0.00	0.00	99.1 TO 100.0



Table 1 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
JANUARY 1960-74

ESKDALEMUIR

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
-14.9 TO -14.0	0.03 100.0								
-13.9 TO -13.0	0.13 100.0	0.01 100.0							
-12.9 TO -12.0	0.07 99.8								
-11.9 TO -11.0	0.13 99.7	0.02 99.8							
-10.9 TO -10.0	0.23 99.6	0.01 99.6							
- 9.9 TO - 9.0	0.32 99.4	0.01 99.4							
- 8.9 TO - 8.0	0.39 98.9	0.19 99.1							
- 7.9 TO - 7.0	0.43 98.4	0.13 98.5							
- 6.9 TO - 6.0	0.62 97.6	0.27 97.9							
- 5.9 TO - 5.0	0.82 96.6	0.38 97.0							
- 4.9 TO - 4.0	0.78 95.3	0.47 95.8							
- 3.9 TO - 3.0	1.31 93.6	0.88 94.6	0.02 94.6						
- 2.9 TO - 2.0	1.84 90.3	1.68 92.3	0.07 92.4						
- 1.9 TO - 1.0	2.97 85.4	2.70 88.5	0.27 88.8						
- 0.9 TO 0.0	3.51 78.2	3.66 82.4	0.41 82.8						
0.1 TO 1.0	6.09 68.7	5.03 74.7	0.54 75.3						
1.1 TO 2.0	7.07 57.5	4.88 62.6	0.83 63.6	0.01 63.6					



**Table 1 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
 (CONT) JANUARY 1960-74

ESKDALEMUIR

**ASSOCIATED WET-BULB TEMPERATURE (DEG C)**

DRY-BULB		T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
T (DEG C)										
2.1 TO	3.0	5.96 44.9	5.20 50.4	0.28 50.7	0.10 50.8	10.0 0.001	10.0 0.001	0.21- OT 2.21-		
3.1 TO	4.0	5.32 33.8	4.66 39.0	0.30 39.2	0.0 39.2	0.01 39.3	0.0 0.001	0.41- OT 2.41-		
4.1 TO	5.0	4.35 23.9	3.99 28.5	0.48 29.0			0.0 0.001	0.61- OT 2.61-		
5.1 TO	6.0	4.40 15.7	3.36 19.6	0.59 20.2		10.0 0.00	0.0 0.00	0.81- OT 2.81-		
6.1 TO	7.0	2.96 8.6	2.49 11.3	0.48 11.8			0.0 0.00	1.01- OT 2.11-		
7.1 TO	8.0	2.41 4.6	1.01 5.7	0.19 5.9	0.01 5.9	0.0 0.00	0.0 0.00	1.21- OT 2.01-		
8.1 TO	9.0	0.91 1.5	0.61 2.2	0.05 2.2	0.0 2.3	0.01 2.3	0.0 1.00	1.41- OT 2.0 -		
9.1 TO	10.0	0.26 0.3	0.31 0.6	0.04 0.7	0.0 0.7	0.01 0.7	0.0 0.00	1.61- OT 2.8 -		
10.1 TO	11.0		0.04 0.0	0.01 0.0	0.02 0.1	0.0 1.00	0.0 0.00	1.81- OT 2.7 -		
					0.0 0.00	0.0 0.00	0.0 0.00	2.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	2.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	2.41- OT 2.4 -		
					0.0 0.00	0.0 0.00	0.0 0.00	2.61- OT 2.6 -		
					0.0 0.00	0.0 0.00	0.0 0.00	2.81- OT 2.8 -		
					0.0 0.00	0.0 0.00	0.0 0.00	3.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	3.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	3.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	3.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	3.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	4.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	4.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	4.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	4.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	4.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	5.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	5.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	5.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	5.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	5.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	6.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	6.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	6.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	6.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	6.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	7.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	7.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	7.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	7.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	7.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	8.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	8.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	8.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	8.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	8.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	9.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	9.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	9.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	9.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	9.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	10.01- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	10.21- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	10.41- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	10.61- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	10.81- OT 2.0 -		
					0.0 0.00	0.0 0.00	0.0 0.00	11.01- OT 2.0 -		



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

FEBRUARY 1960-74

ESKDALEMUIR

## 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
-15.9 TO -15.0	0.01 100.0	0.01 100.0	01.0 8.02	85.0 7.02	05.2 4.02	32.2 2.44	0.2 0.4	07 1.3	
-14.9 TO -14.0	0.03 100.0	10.0 7.02	0.0 5.02	02.0 3.02	33.4 0.02	52.2 8.02	0.4 0.2	07 1.5	
-13.9 TO -13.0	0.03 100.0			84.0 0.02	02.2 2.02	42.4 0.02	0.2 0.2	07 1.4	
-12.9 TO -12.0	0.09 99.9	0.01 99.9		02.0 5.02	32.2 0.01	04.4 7.01	0.2 0.2	07 1.2	
-11.9 TO -11.0	0.20 99.8			84.0 8.11	04.2 2.11	30.2 0.8	0.2 0.2	07 1.2	
-10.9 TO -10.0	0.35 99.5	0.08 99.6	10.0 0.2	01.0 0.2	10.1 7.2	14.5 0.4	0.8 0.8	07 1.7	
- 9.9 TO - 9.0	0.48 99.1	0.07 99.2	0.0 0.2	20.0 5.2	18.0 5.2	10.0 7.1	0.2 0.2	07 1.8	
- 8.9 TO - 8.0	0.47 98.6	0.08 98.6	0.0 7.0	40.0 7.0	15.0 0.0	05.0 0.0	0.01 0.0	07 1.9	
- 7.9 TO - 7.0	0.75 97.9	0.15 98.1	20.0 1.0	10.0 0.0	40.0 0.0		0.11 0.0	07 1.01	
- 6.9 TO - 6.0	0.76 96.8	0.31 97.2	0.02 97.2						
- 5.9 TO - 5.0	1.06 95.4	0.58 96.1	0.05 96.1						
- 4.9 TO - 4.0	1.00 93.2	1.05 94.4	0.06 94.4						
- 3.9 TO - 3.0	1.69 90.9	1.23 92.2	0.11 92.3						
- 2.9 TO - 2.0	1.91 86.3	2.47 89.2	0.10 89.3						
- 1.9 TO - 1.0	2.71 80.6	3.16 84.4	0.41 84.8						
- 0.9 TO 0.0	3.45 72.4	4.48 77.9	0.58 78.5						



**Table 2 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
 (CONT) FEBRUARY 1960-74 ESKDALEMUIR

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB		T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
T (DEG C)										
0.1 TO	1.0	5.07 61.7	5.59 69.0	0.86 70.0	0.01 70.0					
1.1 TO	2.0	4.77 50.1	5.32 56.7	1.41 58.3	0.17 58.5					
2.1 TO	3.0	3.30 39.6	4.66 45.4	1.05 46.6	0.20 46.8	0.02 46.8				
3.1 TO	4.0	2.98 30.8	4.19 36.3	0.89 37.4	0.17 37.6	0.02 37.6				
4.1 TO	5.0	3.71 21.8	4.99 27.8	1.19 29.1	0.18 29.3	0.01 29.3				
5.1 TO	6.0	3.24 13.9	3.47 18.1	0.90 19.1	0.14 19.2	0.02 19.3				
6.1 TO	7.0	2.67 7.4	2.69 10.6	0.74 11.4	0.07 11.5					
7.1 TO	8.0	1.43 3.2	1.40 4.7	0.45 5.3	0.05 5.3					
8.1 TO	9.0	0.55 1.0	0.61 1.8	0.15 1.9	0.05 2.0					
9.1 TO	10.0	0.11 0.2	0.26 0.5	0.14 0.6	0.02 0.6	0.01 0.6				
10.1 TO	11.0		0.03 0.1	0.04 0.1			0.01 0.1			
11.1 TO	12.0			0.02 0.0						
12.1 TO	13.0				0.01 0.0					



**Table 3** PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
MARCH 1960-74  
ESKDALEMUIR

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
-12.9 TO -12.0	0.01 100.0								
-11.9 TO -11.0	0.01 100.0	0.01 100.0							
-10.9 TO -10.0	0.06 100.0								
- 9.9 TO - 9.0	0.14 99.9	0.01 99.9							
- 8.9 TO - 8.0	0.13 99.7	0.05 99.7							
- 7.9 TO - 7.0	0.29 99.4	0.12 99.6							
- 6.9 TO - 6.0	0.24 99.0	0.16 99.2							
- 5.9 TO - 5.0	0.34 98.6	0.16 98.8							
- 4.9 TO - 4.0	0.72 97.6	0.61 98.2	0.01 98.3						
- 3.9 TO - 3.0	0.66 95.9	0.87 96.9	0.04 96.9						
- 2.9 TO - 2.0	0.82 94.3	0.74 95.3	0.08 95.3						
- 1.9 TO - 1.0	1.27 91.1	1.93 93.5	0.19 93.7						
- 0.9 TO 0.0	2.43 85.8	3.08 89.9	0.43 90.3	0.01 90.3					
0.1 TO 1.0	4.36 77.1	4.44 83.3	0.77 84.4	0.01 84.4					
1.1 TO 2.0	3.72 65.5	5.51 72.8	1.39 74.5	0.19 74.8					
2.1 TO 3.0	4.11 53.6	5.99 61.8	1.31 63.6	0.32 63.9	0.05 64.0				
3.1 TO 4.0	3.47 41.8	5.45 49.5	1.57 51.7	0.41 52.2	0.04 52.2				



**Table 3 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
 (CONT) MARCH 1960-74 ESKDALEMUIR

**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
4.1 TO	5.0	3.15 31.1	4.51 38.3	1.50 40.6	0.47 41.2	0.06 41.3				
5.1 TO	6.0	3.39 21.8	3.67 27.9	1.74 30.6	0.67 31.5	0.11 31.6	0.01 31.6			
6.1 TO	7.0	4.06 12.7	3.59 18.4	1.59 20.9	0.66 21.8	0.13 22.0				
7.1 TO	8.0	1.68 5.1	2.03 8.6	1.50 10.7	0.57 11.6	0.26 11.9	0.01 11.9			
8.1 TO	9.0	0.47 1.8	0.59 3.5	0.88 4.9	0.47 5.5	0.19 5.8	0.03 5.9	0.01 5.9		
9.1 TO	10.0	0.13 0.5	0.38 1.3	0.46 2.4	0.34 3.0	0.09 3.1	0.07 3.2	0.02 3.3		
10.1 TO	11.0		0.15 0.4	0.17 0.8	0.28 1.4	0.14 1.7	0.04 1.7	0.02 1.8		
11.1 TO	12.0			0.09 0.2	0.10 0.5	0.23 0.8	0.04 0.9	0.01 0.9	0.0 1.0	0.01 1.0
12.1 TO	13.0			0.01 0.0	0.02 0.1	0.03 0.3	0.10 0.4	0.04 0.5	0.0 0.5	0.01 0.5
13.1 TO	14.0	T-9 0.02 0.3			0.01 0.0	0.05 0.1	0.04 0.2	0.03 0.3	0.0 0.3	0.02 0.3
14.1 TO	15.0						0.04 0.1	0.04 0.1	0.03 0.1	
15.1 TO	16.0							0.01 0.0	0.01 0.0	
16.1 TO	17.0								0.01 0.0	



Table 4 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
APRIL 1960-74

ESKDALEMUIR

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	0.01 100.0								
- 8.9 TO - 8.0	0.04 100.0								
- 7.9 TO - 7.0	0.05 100.0								
- 6.9 TO - 6.0	0.06 99.9	0.02 99.9							
- 5.9 TO - 5.0	0.16 99.8	0.05 99.8							
- 4.9 TO - 4.0	0.38 99.5	0.14 99.6							
- 3.9 TO - 3.0	0.50 98.8	0.29 99.1							
- 2.9 TO - 2.0	0.85 97.6	0.56 98.3	0.05 98.3						
- 1.9 TO - 1.0	1.12 95.5	1.12 96.8	0.07 96.9						
- 0.9 TO 0.0	1.11 92.6	1.51 94.4	0.14 94.6						
0.1 TO 1.0	2.01 88.5	2.20 91.5	0.28 91.8						
1.1 TO 2.0	2.74 81.7	3.50 86.5	0.59 87.3	0.01 87.3					
2.1 TO 3.0	2.37 73.2	3.95 79.0	0.88 80.2	0.20 80.5					
3.1 TO 4.0	3.05 64.2	4.07 70.9	1.04 72.7	0.26 73.0	0.03 73.0				
4.1 TO 5.0	3.21 53.4	4.39 61.2	1.52 63.8	0.57 64.5	0.06 64.6				
5.1 TO 6.0	2.85 42.1	3.94 50.2	1.86 53.6	0.82 54.6	0.17 54.9	0.01 54.9			
6.1 TO 7.0	3.65 31.6	3.53 39.3	2.08 43.4	1.00 44.9	0.23 45.2	0.01 45.2			



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

APRIL 1960-74

ESKDALEMUIR

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
T (DEG C)									
7.1 TO 8.0	3.44 20.9	3.37 28.0	1.80 32.1	1.35 34.1	0.39 34.6	0.01 34.7	0.01 34.7	0.03 34.7	
8.1 TO 9.0	2.16 11.6	2.37 17.5	1.70 21.2	1.25 23.5	0.47 24.2	0.09 24.3	0.02 24.3	0.01 24.3	
9.1 TO 10.0	0.80 5.6	1.19 9.5	1.45 13.0	1.04 15.0	0.78 16.0	0.16 16.2	0.03 16.2		
10.1 TO 11.0	0.12 1.8	0.65 4.8	0.84 7.5	0.89 9.5	0.56 10.5	0.21 10.8	0.05 10.8		
11.1 TO 12.0	0.06 0.7	0.18 1.7	0.63 4.1	0.73 5.9	0.63 7.0	0.23 7.4	0.05 7.5		
12.1 TO 13.0	0.0 0.2	0.11 0.6	0.20 1.4	0.61 3.2	0.50 4.3	0.38 4.8	0.13 5.0	0.03 5.0	
13.1 TO 14.0	0.0 0.1	0.0 0.2	0.07 0.5	0.14 1.1	0.50 2.3	0.26 2.9	0.11 3.0	0.03 3.0	
14.1 TO 15.0	0.0 0.1	0.0 0.1	0.01 0.2	0.05 0.4	0.23 0.9	0.39 1.6	0.20 1.9	0.01 1.9	
15.1 TO 16.0		0.0 0.1	0.01 0.1	0.02 0.2	0.13 0.4	0.19 0.6	0.13 0.9	0.11 1.0	0.02 1.0
16.1 TO 17.0			0.01 0.1	0.02 0.1	0.02 0.1	0.04 0.2	0.06 0.3	0.12 0.4	0.03 0.4
17.1 TO 18.0				0.02 0.0	0.0 0.1	0.05 0.1	0.02 0.1		
18.1 TO 19.0					0.03 0.0	0.01 0.0		0.02 0.1	



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

MAY 1960-74

ESKDALEMUIR

**ASSOCIATED WET-BULB TEMPERATURE (DEG C)**

DRY-BULB	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
T (DEG C)									
- 5.9 TO - 5.0	0.01								
	100.0								
- 4.9 TO - 4.0	0.02								
	100.0								
- 3.9 TO - 3.0	0.11	0.01							
	100.0	100.0							
- 2.9 TO - 2.0	0.16	0.04							
	99.8	99.9							
- 1.9 TO - 1.0	0.26	0.10							
	99.6	99.7							
- 0.9 TO 0.0	0.48	0.17							
	99.1	99.3							
0.1 TO 1.0	0.52	0.37							
	98.2	98.6							
1.1 TO 2.0	1.18	0.63	0.04						
	96.9	97.7	97.7						
2.1 TO 3.0	1.18	1.20	0.15	0.01					
	94.3	95.7	95.9	95.9					
3.1 TO 4.0	1.56	1.68	0.18						
	90.8	93.1	93.3						
4.1 TO 5.0	2.16	2.79	0.45	0.03					
	85.0	89.3	89.9	89.9					
5.1 TO 6.0	2.80	3.91	0.91	0.13					
	76.1	82.9	84.3	84.5					
6.1 TO 7.0	3.59	5.10	1.65	0.30	0.05				
	64.5	73.3	76.1	76.7	76.8				
7.1 TO 8.0	4.69	5.78	2.05	0.59	0.17	0.01			
	50.8	60.9	64.6	65.8	66.1	66.1			
8.1 TO 9.0	4.57	4.92	2.20	0.74	0.40	0.09			
	36.0	46.1	50.5	52.1	52.7	52.8			
9.1 TO 10.0	2.82	3.96	2.14	1.09	0.58	0.14			
	22.1	31.5	36.5	38.8	39.7	39.9			
10.1 TO 11.0	1.00	2.07	2.18	1.50	0.76	0.27	0.02		
	13.0	19.2	24.7	27.7	28.8	29.1	29.1		



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

MAY 1960-74

ESKDALEMUIR

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
11.1 TO 12.0	0.48 7.7	0.90 12.0	1.31 16.2	1.45 19.4	1.11 21.0	0.25 21.3	0.05 21.3		
12.1 TO 13.0	0.14 4.1	0.53 7.2	0.94 10.6	1.23 13.5	1.19 15.3	0.32 15.7	0.03 15.8	0.01 15.8	
13.1 TO 14.0	0.01 2.1	0.22 4.0	0.70 6.5	1.03 9.0	0.97 10.6	0.48 11.2	0.11 11.4	0.01 11.4	
14.1 TO 15.0	0.0 1.1	0.04 2.1	0.31 3.7	0.71 5.6	0.79 7.1	0.50 7.7	0.10 7.9	0.01 7.9	
15.1 TO 16.0	0.0 0.3	0.02 1.1	0.09 2.1	0.30 3.4	0.57 4.5	0.39 5.2	0.15 5.4	0.03 5.4	
16.1 TO 17.0		0.0 0.3	0.08 1.0	0.22 2.0	0.41 3.0	0.44 3.5	0.23 3.8	0.02 3.8	
17.1 TO 18.0			0.03 0.3	0.17 1.0	0.16 1.7	0.41 2.2	0.12 2.4	0.04 2.4	
18.1 TO 19.0			0.01 0.0	0.03 0.3	0.15 0.8	0.30 1.3	0.13 1.5		
19.1 TO 20.0				0.02 0.0	0.09 0.3	0.19 0.6	0.18 0.8	0.04 0.9	0.03 0.9
20.1 TO 21.0					0.01 0.0	0.10 0.1	0.10 0.3	0.04 0.3	0.01 0.3
21.1 TO 22.0						0.01 0.0	0.02 0.0	0.03 0.1	0.02 0.1
22.1 TO 23.1								0.01 0.0	0.02 0.0



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

JUNE 1960-74

ESKDALEMUIR

## 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	0.03 100.0									
- 0.9 TO 0.0	0.04 100.0	0.02 100.0								
0.1 TO 1.0	0.08 99.9	0.04 99.9								
1.1 TO 2.0	0.19 99.7	0.08 99.8								
2.1 TO 3.0	0.37 99.3	0.23 99.5								
3.1 TO 4.0	0.56 98.5	0.40 98.9								
4.1 TO 5.0	0.59 97.1	0.77 97.9	0.05 98.0							
5.1 TO 6.0	0.94 94.7	1.19 96.5	0.08 96.6							
6.1 TO 7.0	1.33 90.7	1.89 93.7	0.40 94.3	0.01 94.3						
7.1 TO 8.0	1.41 83.8	3.34 89.4	0.76 90.5	0.18 90.7						
8.1 TO 9.0	2.69 75.0	3.61 82.4	1.33 84.6	0.19 85.0	0.03 85.0					
9.1 TO 10.0	3.88 62.5	4.77 72.3	2.21 76.1	0.47 77.0	0.14 77.2	0.01 77.2				
10.1 TO 11.0	3.47 47.6	4.76 58.6	2.37 63.7	0.86 65.2	0.36 65.7	0.02 65.7				
11.1 TO 12.0	3.19 34.1	4.37 44.2	2.60 50.3	1.54 53.1	0.48 53.8	0.08 53.8				
12.1 TO 13.0	2.11 21.7	3.56 30.9	2.37 36.6	1.94 40.2	0.81 41.4	0.19 41.6				
13.1 TO 14.0	0.72 12.9	1.94 19.6	2.11 25.3	1.72 28.6	1.29 30.2	0.31 30.6	0.02 30.6	0.0 30.6	0.01 30.6	
14.1 TO 15.0	0.23 7.8	1.17 12.2	1.62 16.9	1.50 20.5	0.94 22.1	0.31 22.4	0.06 22.5			
15.1 TO 16.0	0.06 4.7	0.48 7.5	0.97 10.8	1.21 13.9	1.10 16.0	0.38 16.6	0.04 16.7			



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

(CONT)

JUNE 1960-74

ESKDALEMUIR

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
16.1 TO 17.0	0.0 2.5	0.14 4.7	0.51 7.0	0.86 9.3	0.90 11.2	0.66 12.1	0.19 12.4	0.02 12.4	
17.1 TO 18.0	0.0 0.8	0.09 2.5	0.31 4.5	0.56 6.4	0.54 7.7	0.58 8.8	0.21 9.1	0.04 9.1	
18.1 TO 19.0	0.0 0.2	0.0 0.8	0.15 2.4	0.47 4.1	0.49 5.4	0.31 6.2	0.25 6.7	0.06 6.8	0.02 6.8
19.1 TO 20.0	0.0 0.1	0.0 0.2	0.08 0.8	0.29 2.2	0.35 3.5	0.26 4.3	0.35 4.8	0.14 5.0	0.02 5.0
20.1 TO 21.0		0.0 0.1	0.02 0.2	0.08 0.7	0.25 1.9	0.39 2.8	0.25 3.3	0.12 3.5	0.06 3.5
21.1 TO 22.0			0.01 0.1	0.01 0.2	0.14 0.6	0.39 1.5	0.34 2.0	0.17 2.3	0.06 2.4
22.1 TO 23.0				0.03 0.1	0.02 0.2	0.18 0.4	0.31 1.0	0.10 1.2	0.08 1.3
23.1 TO 24.0					0.06 0.1	0.03 0.1	0.02 0.2	0.19 0.4	0.06 0.5
24.1 TO 25.0					0.01 0.0		0.01 0.1	0.04 0.1	0.03 0.1
25.1 TO 26.0								0.02 0.0	0.01 0.1
26.1 TO 27.0									0.02 0.0
	T-9								
19.1 TO 20.0	0.01 5.1								
20.1 TO 21.0	0.01 3.6								
21.1 TO 22.0									
22.1 TO 23.0									
23.1 TO 24.0	0.01 0.5								
24.1 TO 25.0	0.03 0.2								
25.1 TO 26.0									
26.1 TO 27.0	0.01 0.0								



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

JULY 1960-74

ESKDALEMUIR

## 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
0.1 TO 1.0	0.04 100.0								
1.1 TO 2.0	0.10 100.0	0.01 100.0							
2.1 TO 3.0	0.12 99.8	0.04 99.9							
3.1 TO 4.0	0.30 99.5	0.14 99.7							
4.1 TO 5.0	0.40 98.7	0.50 99.2	0.01 99.3						
5.1 TO 6.0	0.61 97.8	0.47 98.3	0.01 98.3						
6.1 TO 7.0	1.15 96.0	1.08 97.2	0.03 97.3						
7.1 TO 8.0	1.54 92.8	1.74 94.8	0.15 95.0						
8.1 TO 9.0	2.03 87.0	2.91 91.3	0.26 91.6	0.01 91.6					
9.1 TO 10.0	2.77 77.5	4.58 85.0	0.90 86.3	0.03 86.4					
10.1 TO 11.0	2.94 64.5	4.79 74.8	1.63 77.6	0.27 78.1	0.01 78.1				
11.1 TO 12.0	4.04 50.2	5.03 61.5	2.72 67.0	0.73 68.3	0.12 68.4				
12.1 TO 13.0	3.56 35.0	4.76 46.2	2.76 52.5	1.65 55.3	0.37 55.8	0.04 55.8			
13.1 TO 14.0	2.93 21.0	4.96 31.4	2.96 37.8	2.14 41.4	0.91 42.5	0.09 42.7	0.02 42.7		
14.1 TO 15.0	1.76 11.1	2.99 18.0	2.35 23.5	2.05 27.0	1.01 28.4	0.19 28.6	0.04 28.7		
15.1 TO 16.0	0.36 4.7	1.55 9.3	1.70 13.3	1.68 16.4	0.96 17.8	0.34 18.2	0.04 18.3	0.01 18.3	
16.1 TO 17.0	0.13 2.1	0.52 4.4	1.30 7.4	1.08 9.7	1.06 11.1	0.39 11.6	0.04 11.6	0.01 11.6	
17.1 TO 18.0	0.04 0.8	0.14 2.0	0.48 3.7	0.73 5.5	0.78 6.7	0.33 7.0	0.04 7.1		



**Table 7 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
 (CONT) JULY 1960-74 ESKDALEMUIR

**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
18.1 TO 19.0	0.0 0.3	0.02 0.7	0.26 1.8	0.47 3.1	0.56 4.1	0.29 4.5	0.04 4.5	0.02 4.6	
19.1 TO 20.0	0.0 0.1	0.0 0.3	0.08 0.7	0.20 1.5	0.36 2.3	0.29 2.8	0.09 2.9	0.01 2.9	
20.1 TO 21.0		0.0 0.1	0.03 0.3	0.08 0.6	0.24 1.2	0.21 1.7	0.15 1.9	0.01 1.9	
21.1 TO 22.0			0.0 0.1	0.05 0.3	0.13 0.5	0.13 0.9	0.15 1.1	0.03 1.2	
22.1 TO 23.0	T-9			0.0 0.1	0.04 0.2	0.05 0.3	0.16 0.6	0.03 0.7	
23.1 TO 24.0	0.01 0.4	T-10			0.02 0.1	0.03 0.2	0.06 0.2	0.05 0.3	0.03 0.4
24.1 TO 25.0	0.3 0.2	0.01 0.2				0.05 0.1	0.02 0.1	0.02 0.1	0.02 0.2
25.1 TO 26.0							0.04 0.0		
26.1 TO 27.0							0.01 0.0		



**Table 8 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
**AUGUST 1960-74** **ESKDALEMUIR**

**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		0.01 100.0								
- 0.9 TO 0.0	0.0	0.04 100.0								
0.1 TO 1.0	1.0	0.09 99.9	0.02 99.9							
1.1 TO 2.0	2.0	0.10 99.8	0.04 99.8							
2.1 TO 3.0	3.0	0.22 99.6	0.13 99.7							
3.1 TO 4.0	4.0	0.47 99.2	0.12 99.4							
4.1 TO 5.0	5.0	0.59 98.4	0.38 98.8							
5.1 TO 6.0	6.0	0.75 97.3	0.47 97.8							
6.1 TO 7.0	7.0	1.18 95.5	0.99 96.6	0.04 96.6						
7.1 TO 8.0	8.0	1.81 92.6	1.51 94.3	0.09 94.4						
8.1 TO 9.0	9.0	2.74 87.5	2.57 90.8	0.22 91.0	0.02 91.0					
9.1 TO 10.0	10.0	2.89 77.8	4.87 84.8	0.52 85.4						
10.1 TO 11.0	11.0	3.35 65.5	4.96 74.9	1.42 77.0	0.09 77.2					
11.1 TO 12.0	12.0	3.49 50.3	6.61 62.2	2.38 66.6	0.39 67.3	0.05 67.3				
12.1 TO 13.0	13.0	3.64 35.7	5.43 46.8	2.79 52.1	1.24 54.1	0.27 54.4	0.01 54.4			
13.1 TO 14.0	14.0	4.68 23.5	4.07 32.0	2.92 37.8	1.50 40.2	0.66 41.0	0.02 41.0			
14.1 TO 15.0	15.0	1.91 12.1	3.10 18.8	2.03 23.3	1.80 26.1	0.78 27.0	0.13 27.2			
15.1 TO 16.0	16.0	0.50 6.0	1.83 10.2	1.53 13.8	1.35 16.2	0.79 17.2	0.16 17.4	0.03 17.4		



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

AUGUST 1960-74

ESKDALEMUIR

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
16.1 TO 17.0	0.04 3.0	0.77 5.5	0.98 7.9	1.12 9.9	0.74 11.0	0.22 11.2	0.02 11.3		
17.1 TO 18.0	0.0 1.2	0.32 3.0	0.63 4.7	0.68 6.1	0.63 7.0	0.22 7.4	0.01 7.4		
18.1 TO 19.0	0.0 0.2	0.10 1.2	0.33 2.6	0.53 3.7	0.52 4.5	0.23 4.8	0.09 4.9		
19.1 TO 20.0		0.02 0.2	0.20 1.1	0.53 2.2	0.39 2.7	0.20 3.0	0.09 3.1	0.03 3.1	
20.1 TO 21.0			0.03 0.2	0.22 0.9	0.30 1.5	0.09 1.6	0.04 1.6		
21.1 TO 22.0				0.05 0.2	0.17 0.7	0.18 0.9	0.04 1.0		
22.1 TO 23.0					0.07 0.1	0.19 0.4	0.06 0.5		
23.1 TO 24.0					0.01 0.0	0.04 0.1	0.07 0.2	0.01 0.2	
24.1 TO 25.0							0.01 0.0	0.03 0.1	
25.1 TO 26.0	0.01 0.0	0.01 0.0							0.02 0.0



**Table 9 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
**SEPTEMBER 1960-74**  
**ESKDALEMUIR**

**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
- 3.9 TO 3.0	0.03 100.0								
- 2.9 TO - 2.0	0.09 100.0	0.01 100.0							
- 1.9 TO - 1.0	0.26 99.8	0.03 99.9							
- 0.9 TO 0.0	0.25 99.5	0.04 99.6							
0.1 TO 1.0	0.23 99.2	0.04 99.3							
1.1 TO 2.0	0.41 98.9	0.11 99.0	0.02 99.0						
2.1 TO 3.0	0.72 98.2	0.23 98.5							
3.1 TO 4.0	1.08 97.0	0.45 97.5	0.03 97.5						
4.1 TO 5.0	1.59 94.9	0.92 95.9	0.06 96.0						
5.1 TO 6.0	1.44 91.5	1.44 93.3	0.12 93.4						
6.1 TO 7.0	1.91 87.3	2.15 90.0	0.24 90.4	0.02 90.4					
7.1 TO 8.0	2.62 81.2	2.64 85.4	0.50 86.0	0.07 86.1					
8.1 TO 9.0	3.67 72.6	3.89 78.6	1.05 80.1	0.09 80.2	0.02 80.3				
9.1 TO 10.0	4.60 60.6	5.05 69.0	1.28 71.0	0.35 71.5	0.04 71.5	0.01 71.5			
10.1 TO 11.0	3.73 46.3	5.58 56.0	1.71 59.3	0.57 60.1	0.09 60.2				
11.1 TO 12.0	4.21 33.4	5.31 42.6	2.07 46.7	1.20 48.3	0.18 48.5	0.02 48.5			
12.1 TO 13.0	4.41 22.1	4.17 29.2	2.45 33.1	1.53 35.1	0.39 35.5	0.03 35.5			
13.1 TO 14.0	3.22 12.4	2.80 17.6	1.81 20.6	0.99 22.0	0.44 22.5	0.04 22.6			



**Table 9 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
 (CONT) SEPTEMBER 1960-74 ESKDALEMUIR

**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
14.1 TO 15.0	1.26 5.1	2.16 9.2	1.26 11.6	0.84 12.8	0.35 13.2	0.05 13.3			
15.1 TO 16.0	0.24 1.6	0.93 3.9	0.94 5.8	0.66 6.9	0.27 7.3	0.06 7.3			
16.1 TO 17.0	0.0 0.5	0.31 1.4	0.54 2.7	0.56 3.6	0.41 4.2	0.06 4.2			
17.1 TO 18.0	0.0 0.2	0.08 0.5	0.24 1.1	0.32 1.9	0.30 2.2	0.13 2.4			
18.1 TO 19.0		0.05 0.2	0.09 0.4	0.13 0.7	0.24 1.2	0.05 1.3			
19.1 TO 20.0			0.03 0.1	0.09 0.3	0.08 0.5	0.12 0.7	0.03 0.7		
20.1 TO 21.0			0.01 0.0	0.02 0.1	0.08 0.2	0.04 0.3	0.13 0.4		
21.1 TO 22.0				0.03 0.0	0.03 0.1	0.0 0.1	0.04 0.1		
22.1 TO 23.0							0.01 0.0	0.01 0.0	



**Table 10 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
**OCTOBER 1960-74** **ESKDALEMUIR**

**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
- 5.9 TO - 5.0	0.02 100.0	0.01 100.0							
- 4.9 TO - 4.0	0.03 100.0								
- 3.9 TO - 3.0	0.07 99.9	0.03 99.9							
- 2.9 TO - 2.0	0.22 99.7	0.09 99.8							
- 1.9 TO - 1.0	0.41 99.4	0.14 99.5	0.01 99.5						
- 0.9 TO 0.0	0.56 98.3	0.47 99.0							
0.1 TO 1.0	1.01 96.8	0.69 97.8	0.13 97.9						
1.1 TO 2.0	1.33 94.6	0.79 95.8	0.18 96.1	0.04 96.1					
2.1 TO 3.0	1.34 91.6	1.15 93.3	0.31 93.7	0.06 93.8					
3.1 TO 4.0	2.07 87.7	1.65 90.2	0.39 90.8	0.13 90.9					
4.1 TO 5.0	2.36 82.1	2.52 85.6	0.70 86.5	0.12 86.7	0.02 86.7				
5.1 TO 6.0	3.04 74.2	3.47 79.7	0.77 80.8	0.15 80.9	0.04 81.0				
6.1 TO 7.0	3.23 64.8	4.16 71.1	1.45 73.2	0.24 73.5	0.01 73.5				
7.1 TO 8.0	3.71 55.1	4.36 61.6	1.73 63.7	0.51 64.4	0.03 64.4	0.02 64.4			
8.1 TO 9.0	4.52 44.1	4.79 51.4	1.66 53.5	0.40 53.9	0.11 54.1				
9.1 TO 10.0	4.84 32.9	4.43 39.6	1.81 42.1	0.35 42.5	0.05 42.6	0.01 42.6			
10.1 TO 11.0	3.80 21.9	4.47 28.1	1.69 30.3	0.50 31.0	0.08 31.1				
11.1 TO 12.0	3.15 13.3	3.42 18.1	1.10 19.8	0.40 20.3	0.16 20.5	0.01 20.5			



**Table 10 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
(CONT) OCTOBER 1960-74

ESKDALEMUIR

**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
12.1 TO 13.0	2.16 6.8	2.34 10.2	0.91 11.5	0.39 12.1	0.10 12.3				
13.1 TO 14.0	1.38 3.1	1.26 4.7	0.66 5.7	0.28 6.1	0.15 6.3	0.01 6.4	0.01 6.4		
14.1 TO 15.0	0.31 0.9	0.58 1.7	0.17 2.0	0.28 2.4	0.13 2.5	0.04 2.6	0.02 2.6	0.01 2.6	
15.1 TO 16.0	0.01 0.2	0.16 0.6	0.11 0.8	0.06 0.9	0.07 1.0	0.03 1.0	0.0 1.1	0.01 1.1	
16.1 TO 17.0	0.0 0.1	0.04 0.2	0.12 0.4	0.05 0.5	0.06 0.6	0.01 0.6	0.0 0.6	0.0 0.6	0.01 0.6
17.1 TO 18.0		0.0 0.1	0.07 0.2	0.03 0.2	0.05 0.3	0.02 0.3	0.0 0.3	0.0 0.3	0.0 0.3
19.1 TO 20.0			0.04 0.1	0.03 0.1	0.02 0.1	0.03 0.2	0.0 0.2	0.0 0.2	0.0 0.2
20.1 TO 21.0				0.01 0.0	0.02 0.0	0.01 0.0			
21.1 TO 22.0						0.01 0.0			
17.1 TO 18.0	T-9 0.0 0.3	T-10 0.01 0.4							
18.1 TO 19.0	0.02 0.2								



**Table 11 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
 NOVEMBER 1960-74

ESKDALEMUIR

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
-11.9 TO -11.0	0.02 100.0								
-10.9 TO -10.0	0.02 100.0	0.01 100.0							
- 9.9 TO - 9.0	0.08 100.0								
- 8.9 TO - 8.0	0.20 99.9	0.01 99.9							
- 7.9 TO - 7.0	0.21 99.6	0.06 99.7							
- 6.9 TO - 6.0	0.33 99.3	0.07 99.4							
- 5.9 TO - 5.0	0.38 98.9	0.06 99.0							
- 4.9 TO - 4.0	0.67 98.2	0.33 98.5							
- 3.9 TO - 3.0	0.83 96.7	0.75 97.5	0.01 97.5						
- 2.9 TO - 2.0	1.51 94.7	1.01 95.9	0.08 95.9						
- 1.9 TO - 1.0	1.81 91.2	1.59 93.2	0.12 93.3						
- 0.9 TO 0.0	2.56 86.8	2.01 89.4	0.41 89.8						
0.1 TO 1.0	3.45 79.8	3.28 84.2	0.57 84.9						
1.1 TO 2.0	4.43 71.9	3.15 76.3	0.97 77.5	0.05 77.5					
2.1 TO 3.0	3.44 61.5	4.64 67.5	1.16 68.8	0.19 69.0					
3.1 TO 4.0	3.45 52.0	4.27 58.1	1.20 59.4	0.10 59.5					
4.1 TO 5.0	4.09 41.4	5.57 48.5	1.56 50.3	0.14 50.5					
5.1 TO 6.0	3.05 31.9	4.04 37.3	1.30 38.8	0.28 39.1	0.01 39.1				



**Table 11 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
 (CONT) NOVEMBER 1960-74 ESKDALEMUIR

**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
6.1 TO 7.0	3.78 23.5	4.45 28.9	1.24 30.3	0.18 30.5					
7.1 TO 8.0	3.66 15.9	3.32 19.8	0.78 20.6	0.13 20.8	0.02 20.8	0.01 20.8			
8.1 TO 9.0	2.93 9.6	2.33 12.2	0.53 12.8	0.07 12.9	0.01 12.9				
9.1 TO 10.0	1.58 4.8	1.63 6.6	0.31 7.0	0.02 7.0	0.01 7.0	0.01 7.0			
10.1 TO 11.0	0.88 2.3	0.77 3.2	0.19 3.4	0.02 3.4	0.0 3.5	0.02 3.5			
11.1 TO 12.0	0.46 1.1	0.37 1.4	0.09 1.6	0.01 1.6	0.01 1.6	0.0 1.6	0.01 1.6		
12.1 TO 13.0	0.18 0.2	0.35 0.6	0.02 0.6	0.04 0.6	0.0 0.6	0.0 0.6	0.01 0.7		
13.1 TO 14.0		0.03 0.0	0.04 0.1						



**Table 12 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
**DECEMBER 1960-74** **ESKDALEMUIR**

**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
-19.9 TO -18.0	0.04 100.0								
-17.9 TO -17.0	0.01 100.0								
-16.9 TO -16.0	0.01 100.0								
-15.9 TO -15.0	0.03 99.9								
-14.9 TO -14.0	0.01 99.9								
-13.9 TO -13.0	0.03 99.9								
-12.9 TO -12.0	0.04 99.9	0.01 99.9							
-11.9 TO -11.0	0.06 99.8	0.01 99.8							
-10.9 TO -10.0	0.08 99.8	0.01 99.8							
- 9.9 TO - 9.0	0.30 99.7	0.03 99.7							
- 8.9 TO - 8.0	0.29 99.3	0.07 99.4							
- 7.9 TO - 7.0	0.30 98.9	0.06 99.0	0.02 99.0						
- 6.9 TO - 6.0	0.56 98.4	0.19 98.6	0.01 98.6						
- 5.9 TO - 5.0	0.91 97.5	0.37 97.8	0.01 97.8						
- 4.9 TO - 4.0	1.07 95.8	0.56 96.5	0.02 96.6						
- 3.9 TO - 3.0	1.60 93.3	1.15 94.7	0.23 94.9						
- 2.9 TO - 2.0	2.20 89.8	1.64 91.6	0.27 91.9	0.01 91.9					



**Table 12 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
(CONT) DECEMBER 1960-74 ESKDALEMUIR

**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	2.63 85.2	2.08 87.6	0.18 87.8	0.02 87.8		+00.0 0.001	0.81- OT 0.00-		
- 0.9 TO 0.0	3.75 79.1	3.01 82.6	0.29 82.9			+00.0 0.001	0.71- OT 0.71-		
0.1 TO 1.0	4.27 69.4	4.82 75.3	0.52 75.9	0.01 75.9		+00.0 0.001	0.31- OT 0.31-		
1.1 TO 2.0	5.55 59.4	4.97 65.2	1.03 66.2		+00.0 0.001	+00.0 0.001	0.21- OT 0.21-		
2.1 TO 3.0	4.70 47.2	6.19 53.8	0.76 54.6	0.04 54.7		10.0 0.001	0.41- OT 0.41-		
3.1 TO 4.0	4.27 37.7	4.32 42.5	0.47 42.9	0.04 43.0	+00.0 0.001	50.0 0.001	0.21- OT 0.21-		
4.1 TO 5.0	3.70 28.9	3.93 33.4	0.48 33.9		+00.0 0.001	50.0 0.001	0.21- OT 0.21-		
5.1 TO 6.0	3.01 21.7	2.94 25.2	0.53 25.8	0.02 25.8	+00.0 0.001	50.0 0.001	0.11- OT 0.11-		
6.1 TO 7.0	3.56 15.6	2.61 18.7	0.53 19.2	0.04 19.3	10.0 0.001	30.0 0.001	0.01- OT 0.01-		
7.1 TO 8.0	2.83 9.4	2.12 12.0	0.51 12.5	0.01 12.5	10.0 0.001	11.0 0.001	0.0 - OT 0.0 -		
8.1 TO 9.0	2.37 4.6	1.77 6.5	0.47 7.0	0.01 7.1	20.0 0.001	11.0 0.001	0.8 - OT 0.8 -		
9.1 TO 10.0	0.80 1.2	0.95 2.2	0.16 2.4	0.04 2.4	10.0 0.001	11.0 0.001	0.7 - OT 0.7 -		
10.1 TO 11.0	0.09 0.1	0.24 0.4	0.10 0.5	0.04 0.5	00.0 0.001	11.0 0.001	0.2 - OT 0.2 -		
11.1 TO 12.0		0.03 0.0			+00.0 0.001	11.0 0.001	0.2 - OT 0.2 -		
12.1 TO 13.0			0.01 0.0		10.0 0.001	11.0 0.001	0.4 - OT 0.4 -		



**Table 13 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
ANNUAL 1960-74  
ESKDALEMUIR

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
-99.9 TO -18.0	0.00+ 100.0		50.0 8.78	81.0 8.78	80.5 3.98	83.5 5.28	0.1 - 0.1		
-17.9 TO -17.0	0.00+ 100.0			95.0 9.58	10.5 3.58	75.5 1.97	0.0 - 0.0		
-16.9 TO -16.0	0.00+ 100.0		10.0 9.27	55.0 9.27	85.4 5.27	75.4 4.93	0.1 - 1.0		
-15.9 TO -15.0	0.00+ 100.0	0.00+ 100.0		50.1 5.23	79.4 5.23	75.2 4.92	0.5 - 1.1		
-14.9 TO -14.0	0.01 100.0		40.0 7.42	79.0 7.42	91.2 8.22	77.4 5.74	0.5 - 1.5		
-13.9 TO -13.0	0.02 100.0	0.00+ 100.0	40.0 0.54	74.0 9.54	85.4 2.54	75.4 7.72	0.4 - 1.5		
-12.9 TO -12.0	0.02 100.0	0.00+ 100.0		84.0 9.72	79.5 7.72	75.5 8.85	0.5 - 1.4		
-11.9 TO -11.0	0.03 99.9	0.00+ 99.9	80.0 8.25	75.0 8.25	49.5 5.25	10.5 7.25	0.3 - 1.2		
-10.9 TO -10.0	0.06 99.9	0.01 99.9	40.0 19.7	75.0 19.7	13.5 18.7	38.5 12.4	0.7 - 1.3		
- 9.9 TO - 9.0	0.11 99.8	0.01 99.8	10.0 13.1	75.0 13.1	51.5 0.51	58.5 4.9	0.8 - 1.7		
- 8.9 TO - 8.0	0.13 99.7	0.03 99.7	10.0 1.7	74.0 0.7	77.1 2.2	75.5 4.4	0.9 - 1.8		
- 7.9 TO - 7.0	0.17 99.5	0.04 99.6	0.00+ 99.6	81.0 4.5	79.0 5.5	68.0 5.1	0.01 - 1.9		
- 6.9 TO - 6.0	0.21 99.3	0.09 99.3	0.00+ 99.3	10.0 2.0	45.0 4.0	69.0 1.0	0.11 - 1.01		
- 5.9 TO - 5.0	0.31 98.9	0.13 99.0	0.00+ 99.0		50.0 0.0		0.51 - 1.11		
- 4.9 TO - 4.0	0.39 98.3	0.26 98.6	0.01 98.6	10.0 0.0			0.51 - 1.51		
- 3.9 TO - 3.0	0.57 97.4	0.43 97.9	0.03 97.9						
- 2.9 TO - 2.0	0.80 96.1	0.69 96.8	0.05 96.9	0.00+ 96.9					



Table 13 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
(CONT) ANNUAL 1960-74

ESKDALEMUIR

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	1.12 94.0	1.07 95.3	0.10 95.4	0.00+ 95.4					
- 0.9 TO 0.0	1.51 91.0	1.54 92.9	0.19 93.1	0.00+ 93.1					
0.1 TO 1.0	2.27 86.6	2.21 89.5	0.31 89.8	0.00+ 89.8					
1.1 TO 2.0	2.63 81.3	2.42 84.4	0.54 85.0	0.04 85.0					
2.1 TO 3.0	2.32 75.2	2.80 78.7	0.49 79.3	0.09 79.4	0.01 79.4				
3.1 TO 4.0	2.38 69.4	2.62 72.9	0.51 73.6	0.09 73.7	0.01 73.7				
4.1 TO 5.0	2.49 63.1	2.94 67.0	0.67 67.9	0.12 68.1	0.01 68.1				
5.1 TO 6.0	2.46 56.6	2.70 60.6	0.73 61.6	0.18 61.8	0.03 61.9	0.00+ 61.9			
6.1 TO 7.0	2.76 49.8	2.89 54.1	0.87 55.4	0.21 55.7	0.04 55.8	0.00+ 55.8			
7.1 TO 8.0	2.60 42.9	2.72 47.1	0.88 48.4	0.29 48.9	0.07 49.0	0.00+ 49.0	0.00+ 49.0		
8.1 TO 9.0	2.47 36.0	2.58 40.3	0.87 41.8	0.28 42.3	0.10 42.4	0.02 42.4	0.00+ 42.4	0.00+ 42.4	
9.1 TO 10.0	2.12 28.8	2.70 33.6	0.95 34.3	0.31 35.9	0.14 36.1	0.03 36.1	0.00+ 36.1		
10.1 TO 11.0	1.62 21.9	2.38 26.7	1.03 28.7	0.42 29.5	0.17 29.8	0.05 29.8	0.01 29.8		
11.1 TO 12.0	1.59 15.9	2.18 20.3	1.08 22.7	0.55 23.7	0.25 24.1	0.05 24.2	0.01 24.2	0.0 24.2	0.00+ 24.2
12.1 TO 13.0	1.35 10.5	1.77 14.3	1.04 16.5	0.72 17.9	0.30 18.3	0.09 18.4	0.02 18.5	0.00+ 18.5	0.00+ 18.5
13.1 TO 14.0	1.08 6.3	1.27 9.1	0.94 11.2	0.65 12.4	0.42 13.0	0.10 13.1	0.02 13.2	0.00+ 13.2	0.00+ 13.2
14.1 TO 15.0	0.46 3.2	0.84 5.2	0.65 6.8	0.60 7.9	0.35 8.4	0.14 8.6	0.04 8.7	0.00+ 8.7	
15.1 TO 16.0	0.10 1.5	0.41 2.7	0.45 3.9	0.44 4.8	0.32 5.4	0.13 5.5	0.03 5.6	0.01 5.6	0.00+ 5.6



**Table 13 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES**  
(CONT) ANNUAL 1960-74 ESKDALEMUIR

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
16.1 TO 17.0	0.01 0.7	0.15 1.4	0.29 2.2	0.33 2.9	0.30 3.4	0.15 3.6	0.04 3.7	0.01 3.7	0.00+ 3.7
17.1 TO 18.0	0.00+ 0.2	0.05 0.7	0.15 1.2	0.21 1.8	0.20 2.1	0.14 2.4	0.03 2.4	0.01 2.4	0.0 2.4
18.1 TO 19.0	0.0 0.1	0.01 0.2	0.07 0.6	0.14 1.0	0.17 1.3	0.10 1.5	0.04 1.6	0.01 1.6	0.00+ 1.6
19.1 TO 20.0		0.00+ 0.1	0.03 0.2	0.09 0.5	0.11 0.8	0.09 0.9	0.06 1.0	0.02 1.1	0.00+ 1.1
20.1 TO 21.0			0.01 0.1	0.03 0.2	0.07 0.4	0.07 0.5	0.06 0.6	0.01 0.6	0.01 0.7
21.1 TO 22.0			0.00+ 0.0	0.01 0.1	0.04 0.2	0.06 0.3	0.05 0.4	0.02 0.4	0.01 0.4
22.1 TO 23.0				0.00+ 0.0	0.01 0.0	0.03 0.1	0.05 0.2	0.01 0.2	0.01 0.2
23.1 TO 24.0					0.01 0.0	0.01 0.0	0.01 0.1	0.02 0.1	0.01 0.1
24.1 TO 25.0					0.00+ 0.0	0.00+ 0.0	0.00+ 0.0	0.01 0.0	0.00+ 0.0
25.1 TO 26.0							0.00+ 0.0	0.00+ 0.0	0.00+ 0.0
26.1 TO 27.0							0.00+ 0.0		0.00+ 0.0



**Table 13** PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
(CONT)  
ANNUAL 1960-74  
ESKDALEMUIR

ASSOCIATED WET-BULB TEMPERATURE (DEG C)			100%
T-9 T-10			90%
DRY-BULB			80%
T (DEG C)			70%
13.1 TO 14.0	0.00+		60%
	13.2		50%
14.1 TO 15.0			40%
15.1 TO 16.0			30%
16.1 TO 17.0			20%
17.1 TO 18.0	0.0	0.00+	10%
	2.4	2.4	0%
18.1 TO 19.0	0.00+		
	1.6		
19.1 TO 20.0	0.00+		
	1.1		
20.1 TO 21.0	0.00+		
	0.7		
21.1 TO 22.0			
22.1 TO 23.0			
23.1 TO 24.0	0.00+		
	0.1		
24.1 TO 25.0	0.00+	0.00+	
	0.0	0.0	
25.1 TO 26.0	0.00+	0.00+	
	0.0	0.0	
26.1 TO 27.0	0.00+		
	0.0		



Table 14

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
DRY BULB TEMPERATURE (C. IC)													
< CR =	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
-170	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
-169 TC	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
-159 TC	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
-149 TC	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
-139 TC	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
-129 TC	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
-119 TC	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-109 TC	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
-99 TC	0.3	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1
-89 TC	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2
-79 TC	0.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.2
-69 TC	0.9	1.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.3
-59 TC	1.2	1.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	0.4
-49 TC	1.3	2.1	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	0.7
-39 TC	2.2	3.0	1.6	0.8	0.1	0.0	0.0	0.0	0.0	0.1	1.6	3.0	1.0
-29 TC	3.6	4.5	1.6	1.5	0.2	0.0	0.0	0.0	0.1	0.3	2.6	4.1	1.5
-19 TC	5.9	6.3	3.4	2.3	0.4	0.0	0.0	0.0	0.3	0.6	3.5	4.9	2.3
0	7.6	8.5	6.0	2.8	0.7	0.1	0.0	0.0	0.3	1.0	5.0	7.1	3.2
1 TC	11.7	11.5	9.6	4.5	0.9	0.1	0.0	0.1	0.3	1.8	7.3	9.6	4.8
11 TC	12.8	11.7	10.8	6.8	1.9	0.3	0.1	0.1	0.5	2.3	8.6	11.6	5.6
21 TC	11.5	9.2	11.8	7.4	2.5	0.6	0.2	0.3	1.0	2.9	9.4	11.7	5.7
31 TC	10.3	8.2	10.9	8.4	3.4	1.0	0.4	0.6	1.6	4.2	9.0	9.1	5.6
41 TC	8.8	10.1	9.7	9.7	5.4	1.4	0.9	1.0	2.6	5.7	11.4	8.1	6.2
51 TC	8.4	7.8	9.6	9.7	7.7	2.2	1.1	1.2	3.0	7.5	8.7	6.5	6.1
61 TC	5.9	6.2	10.0	10.5	10.7	3.6	2.3	2.2	4.3	9.1	9.6	6.7	6.8
71 TC	3.6	3.3	6.0	10.4	13.3	5.7	3.4	3.4	5.8	10.4	7.9	5.5	6.6
81 TC	1.6	1.4	2.6	6.1	12.9	7.9	5.2	5.5	8.7	11.5	5.9	4.6	6.3
91 TC	0.6	0.5	1.5	5.4	10.7	11.5	8.3	8.3	11.3	11.5	3.6	1.9	6.3
101 TC	0.1	0.1	0.8	3.3	7.8	11.8	9.6	9.8	11.7	10.5	1.9	0.5	5.7
111 TC	0.0	0.0	0.5	2.5	5.5	12.3	12.6	12.9	13.0	8.2	1.0	0.0	5.7
121 TC	0.0	0.0	0.2	2.0	4.4	11.0	13.1	13.4	13.0	5.9	0.6	0.0	5.3
131 TC	0.0	0.0	0.2	1.1	3.5	8.1	14.0	13.8	9.3	3.8	0.1	0.0	4.5
141 TC	0.0	0.0	0.1	0.9	2.5	5.8	10.4	9.7	5.9	1.6	0.0	0.0	3.1
151 TC	0.0	0.0	0.0	0.6	1.6	4.3	6.6	6.2	3.1	0.4	0.0	0.0	1.9
161 TC	0.0	0.0	0.0	0.3	1.4	3.3	4.5	3.9	1.9	0.3	0.0	0.0	1.3
171 TC	0.0	0.0	0.0	0.1	0.9	2.3	2.6	2.5	1.1	0.2	0.0	0.0	0.8
181 TC	0.0	0.0	0.0	0.1	0.6	1.8	1.6	1.8	0.0	0.1	0.0	0.0	0.6
191 TC	0.0	0.0	0.0	0.0	0.5	1.5	1.0	1.5	0.4	0.0	0.0	0.0	0.4
200	0.0	0.0	0.0	0.0	0.5	1.5	1.0	1.5	0.4	0.0	0.0	0.0	0.4



Table 14 (cont.) PERCENTAGE FREQUENCY OF HOURLY DRY-BULB TEMPERATURES

ESKDALEMUIR

1960-74

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
DRY BULB TEMPERATURE (°C.1C)														
201 TO	210	0.0	0.0	0.0	0.0	0.3	1.2	0.7	0.7	0.3	0.0+	0.0	0.0	0.3
211 TO	220	0.0	0.0	0.0	0.0	0.1	1.1	0.5	0.4	0.1	0.0	0.0	0.0	0.2
221 TO	230	0.0	0.0	0.0	0.0	0.0+	0.7	0.3	0.3	0.0+	0.0	0.0	0.0	0.1
231 TO	240	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.1
241 TO	250	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0+	0.0	0.0	0.0	0.0	0.0+
251 TO	260	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+
261 TO	270	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+

MEI 2010 TEMPERATURE (°C.1C)

0+ = less than 0.05 percent



Table 15

PERCENTAGE FREQUENCY OF HOURLY WET-BULB TEMPERATURES

ESKDALEMUIR

1960-74

WET BULB TEMPERATURE (0.1C)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
< CR = -17C	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
-169 TO	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
-159 TO	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
-149 TO	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
-139 TO	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
-129 TO	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
-119 TO	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-109 TO	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
-99 TO	0.5	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
-89 TO	0.5	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
-79 TO	0.7	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
-69 TO	1.0	1.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
-59 TO	1.3	2.2	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
-49 TO	1.7	2.3	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
-39 TO	3.3	4.6	3.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
-29 TO	5.0	5.7	5.4	2.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3
-19 TO	7.2	8.2	8.6	2.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.0
0	9.5	10.7	11.7	4.1	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.1	3.0
1 TO	11.3	11.6	11.9	6.7	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	4.3
2 TO	12.6	10.5	11.9	8.5	2.6	0.4	0.1	0.0	0.0	0.0	0.0	0.1	5.3
3 TO	11.1	8.8	10.7	9.0	3.5	0.8	0.3	0.0	0.0	0.0	0.0	0.1	6.1
4 TO	9.9	8.9	10.7	10.8	5.8	1.4	0.8	0.0	0.0	0.0	0.0	0.1	5.8
5 TO	8.2	8.0	9.3	11.3	8.9	2.4	0.9	0.0	0.0	0.0	0.0	0.1	6.3
6 TO	7.1	6.5	9.1	10.5	11.6	4.0	1.9	0.0	0.0	0.0	0.0	0.1	6.5
7 TO	4.0	4.2	7.5	10.7	13.7	6.9	3.2	0.0	0.0	0.0	0.0	0.1	6.7
8 TO	3.1	2.2	3.4	9.3	14.8	8.8	5.8	0.0	0.0	0.0	0.0	0.1	6.9
9 TO	1.2	0.8	1.2	6.0	14.0	12.5	9.5	0.0	0.0	0.0	0.0	0.1	7.2
10 TO	0.3	0.2	0.5	3.8	9.1	14.8	13.1	0.0	0.0	0.0	0.0	0.1	6.9
11 TO	0.0	0.0	0.0	1.1	5.3	13.5	14.3	0.0	0.0	0.0	0.0	0.1	6.1
12 TO	0.0	0.0	0.0	0.5	3.6	12.4	15.2	0.0	0.0	0.0	0.0	0.1	5.5
13 TO	0.0	0.0	0.0	0.1	2.0	8.8	14.0	0.0	0.0	0.0	0.0	0.1	4.3
14 TO	0.0	0.0	0.0	0.0	1.0	5.1	9.9	0.0	0.0	0.0	0.0	0.1	3.1
15 TO	0.0	0.0	0.0	0.1	0.8	3.0	6.4	0.0	0.0	0.0	0.0	0.1	1.7
16 TO	0.0	0.0	0.0	0.0	0.3	2.3	2.6	0.0	0.0	0.0	0.0	0.1	0.8
17 TO	0.0	0.0	0.0	0.0	0.0	1.7	1.3	0.0	0.0	0.0	0.0	0.1	0.4
18 TO	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0	0.0	0.0	0.1	0.2
19 TO	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.0
20 TO	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0
21 TO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0



