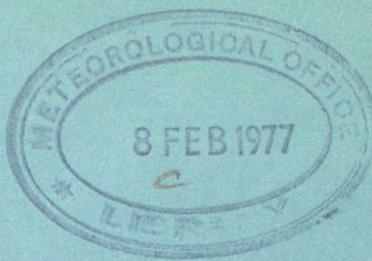


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CLIMATOLOGICAL MEMORANDUM 96

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

by

H.J. Baker and Joyce Laing

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January 1977

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CLIMATOLOGICAL MEMORANDUM NO. 96

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

AT KINLOSS 1960-74

BY H J BAKER AND JOYCE LAING

Introduction

Hourly observations of dry-bulb and wet-bulb temperature were made at Kinloss, Grampian Region, NGR NJ 067627 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 11.1 to 12.0 deg C and the associated wet-bulb temperature within the range 9.1 to 10.0 deg C (column $T-2$) is 0.77. The cumulative value in this 'box', 1.4, indicates that a dry-bulb temperature of 11.1 deg C or more and an associated wet-bulb temperature of 9.1 deg C or more occurred on 1.4 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:

0.0	0.03	0.77	0.53	0.02	0.01
	0.0	0.04	0.30	0.07	0.02
		0.02	0.15		
			0.05		

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):

$$2.7 \times (1/2) \times (744/100) = 10.0$$

$$1.6 \times (3/2) \times (744/100) = 17.9$$

$$1.1 \times (5/2) \times (744/100) = 20.5$$

$$0.8 \times (7/2) \times (744/100) = 20.8$$

$$0.2 \times (9/2) \times (744/100) = 6.7$$

$$0.1 \times (11/2) \times (744/100) = 4.1$$

$$0.1 \times (13/2) \times (744/100) = 4.8$$

$$0^+ \times (15/2) \times (744/100) = 0.0$$

$$84.8$$

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.

This memorandum replaces No 39, now out of print; similar data for other stations in the United Kingdom are published in this series (see list inside the front cover).

10.0 80.0 72.0 57.0 20.0 0.0

80.0 80.0 60.0 40.0 0.0

21.0 50.0

0.0

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

KINLOSS

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	0.04								
	100.0								
-10.9 TO -10.0	0.14								
	100.0								
- 9.9 TO - 9.0	0.22	0.01							
	99.8	99.8							
- 8.9 TO - 8.0	0.19								
	99.6								
- 7.9 TO - 7.0	0.37	0.03							
	99.4	99.4							
- 6.9 TO - 6.0	0.43	0.03							
	99.0	99.0							
- 5.9 TO - 5.0	0.58	0.18							
	98.4	98.5							
- 4.9 TO - 4.0	0.62	0.15							
	97.6	97.8							
- 3.9 TO - 3.0	0.99	0.28	0.03						
	96.7	97.0	97.0						
- 2.9 TO - 2.0	1.24	0.65	0.01						
	94.9	95.7	95.7						
- 1.9 TO - 1.0	1.59	1.00	0.13						
	92.5	93.7	93.8						
- 0.9 TO 0.0	2.36	1.32	0.18						
	89.2	90.9	91.1						
0.1 TO 1.0	3.36	3.30	0.36	0.03					
	82.1	86.8	87.2	87.3					
1.1 TO 2.0	4.44	5.23	1.28	0.06	0.01				
	71.7	78.7	80.1	80.2	80.2				
2.1 TO 3.0	3.43	7.39	1.65	0.15					
	57.4	67.3	69.0	69.2					
3.1 TO 4.0	3.10	7.36	2.18	0.06	0.02				
	43.6	53.9	56.5	56.6	56.6				
4.1 TO 5.0	1.46	6.24	2.62	0.34	0.01				
	31.0	40.5	43.5	43.8	43.9				
5.1 TO 6.0	0.76	4.92	3.04	0.31					
	20.8	29.5	32.8	33.2					

Table 1 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURE
(cont.)

January 1960-74

KINLOSS

(C 820) 350 ASSOCIATED WET-BULB TEMPERATURE (DEG C)

Table 2 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
 KINLOSS February 1960-74

(DEG C) JOURNAL 1960-74 KINLOSS

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

DRY-BULB

	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
T (DEG C)								
-12.9 TO -12.0	50.0 0.03 100.0 1.05							
-11.9 TO -11.0	50.0 0.10 100.0 1.15							
-10.9 TO -10.0	50.0 0.04 100.0 1.05							
-9.9 TO -9.0	50.0 0.10 99.8 0.85							
-8.9 TO -8.0	50.0 0.24 99.7 0.95							
-7.9 TO -7.0	50.0 0.34 99.4 0.95							
-6.9 TO -6.0	50.0 0.49 98.9 0.91							
-5.9 TO -5.0	50.0 0.64 98.3 0.83							
-4.9 TO -4.0	50.0 0.85 97.3 0.71							
-3.9 TO -3.0	50.0 1.09 95.7 0.66							
-2.9 TO -2.0	50.0 1.55 93.4 0.98							
-1.9 TO -1.0	50.0 1.59 89.6 1.74							
-0.9 TO 0.0	50.0 3.02 84.6 2.62							
0.1 TO 1.0	50.0 3.41 74.9 4.62							
1.1 TO 2.0	50.0 2.69 64.1 5.04							
2.1 TO 3.0	50.0 1.99 52.6 6.21							
3.1 TO 4.0	50.0 1.48 41.7 5.70							
4.1 TO 5.0	50.0 1.36 31.3 5.35							

Table 2 (cont.) PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
February 1960-74

KINLOSS

(DEG C) 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
5.1 TO 6.0	1.14	4.85	2.76	0.42	0.12	0.04		
	20.8	30.0	33.5	34.0	34.2	34.3		
6.1 TO 7.0	0.60	3.28	3.30	0.69	0.12	0.06	0.01	
	12.8	19.7	24.0	24.7	24.9	24.9		
7.1 TO 8.0	0.23	2.17	2.84	0.91	0.03	0.01		
	6.9	12.2	15.8	16.8	16.9	16.9		
8.1 TO 9.0	0.04	0.82	2.24	0.65	0.08	0.04		
	3.4	6.7	9.8	10.5	10.6	10.7		
9.1 TO 10.0	0.02	0.82	1.80	0.78	0.08	0.02		
	1.0	3.3	5.8	6.7	6.8	6.8		
10.1 TO 11.0	0.0	0.37	1.03	0.64	0.10			
	0.1	1.0	2.5	3.2	3.3			
11.1 TO 12.0		0.02	0.39	0.38	0.06	0.02		
		0.1	0.6	1.1	1.1	1.2		
12.1 TO 13.0			0.06	0.08	0.06			
			0.1	0.2	0.3			
13.1 TO 14.0				0.01	0.04			
				0.0	0.1			
14.1 TO 15.0				0.02	0.02			
				0.0	0.0			
						0.1	0.1	
						0.2	0.2	
						0.3	0.3	
						0.4	0.4	
						0.5	0.5	
						0.6	0.6	
						0.7	0.7	
						0.8	0.8	
						0.9	0.9	
						1.0	1.0	
						1.1	1.1	
						1.2	1.2	
						1.3	1.3	
						1.4	1.4	
						1.5	1.5	
						1.6	1.6	
						1.7	1.7	
						1.8	1.8	
						1.9	1.9	
						2.0	2.0	
						2.1	2.1	
						2.2	2.2	
						2.3	2.3	
						2.4	2.4	
						2.5	2.5	
						2.6	2.6	
						2.7	2.7	
						2.8	2.8	
						2.9	2.9	
						3.0	3.0	
						3.1	3.1	

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

March 1960-74

KINLOSS

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ASSOCIATED WET-BULB TEMPERATURE (DEG C)
(C-500) MOUNTAIN BULB-THE GLENCOE

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	31.0 8.4%	54.0 0.4%	28.5 2.5%	28.4 0.0%	41.1 8.0%	0.0	0P 1.0	
- 8.9 TO - 8.0	0.02 100.0	0.01 100.0	22.0 7.4%	27.5 0.0%	28.5 7.2%	23.0 8.2%	0.0	0P 1.0	
- 7.9 TO - 7.0	0.03 100.0	0.01 100.0	20.0 8.0%	40.5 0.0%	21.5 7.0%	25.0 8.0%	0.0	0P 1.0	
- 6.9 TO - 6.0	0.05 99.9	0.03 99.9	22.0 2.0%	28.5 8.2%	28.0 5.5%	20.0 8.0%	0.0	0P 1.0	
- 5.9 TO - 5.0	0.05 99.8	0.07 99.8	20.0 8.0%	28.4 8.0%	28.0 7.0%	20.0 8.0%	0.0	0.01 0P 1.0	
- 4.9 TO - 4.0	0.15 99.6	0.15 99.7	18.0 2.0%	20.1 8.2%	25.0 8.0%	20.0 8.0%	0.0	0.11 0P 1.0	
- 3.9 TO - 3.0	0.30 99.1	0.31 99.4	18.0 2.0%	25.0 2.0%	25.0 2.0%	20.0 2.0%	0.0	0.51 0P 1.1	
- 2.9 TO - 2.0	0.69 98.4	0.32 98.8	0.04 98.8	30.0 1.0	30.0 1.0		0.0	0.81 0P 1.51	
- 1.9 TO - 1.0	1.09 96.7	0.73 97.7	0.08 97.8					0.41 0P 1.51	
- 0.9 TO 0.0	1.30 93.4	1.51 95.6	0.19 95.9					0.21 0P 1.41	
0.1 TO 1.0	1.82 87.7	2.63 92.1	0.54 92.8	0.08 92.8					
1.1 TO 2.0	2.32 79.9	3.52 85.9	1.34 87.7	0.09 87.8					
2.1 TO 3.0	2.37 69.3	4.96 77.5	2.03 80.0	0.33 80.5	0.01 80.5				
3.1 TO 4.0	1.74 57.6	5.46 67.0	2.47 70.2	0.38 70.6	0.15 70.8				
4.1 TO 5.0	1.51 44.0	6.28 55.9	3.01 59.8	0.65 60.5	0.06 60.6	0.01 60.6			
5.1 TO 6.0	1.24 31.6	4.54 42.5	3.71 48.1	0.66 49.0	0.10 49.1				
6.1 TO 7.0	0.78 21.5	3.53 30.3	4.42 36.7	1.33 38.6	0.15 38.8	0.01 38.8			
7.1 TO 8.0	0.22 13.2	2.65 20.7	3.26 26.0	1.57 28.0	0.36 28.5	0.05 28.6	0.02 28.6		

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

March 1960-74

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March 1960-74

DRY-BULB

T-D	T _D (DEG C)	ASSOCIATED WET-BULB TEMPERATURE (DEG C)								
		T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
8.0	9.0	0.10	1.51	2.92	1.47	0.34	0.12	0.03		
		7.0	12.9	17.8	19.9	20.3	20.5	20.5		
9.1	10.0	0.05	0.86	2.61	1.37	0.43	0.06	0.05		
		3.1	6.9	11.3	13.3	13.9	13.9	14.0		
10.1	11.0	0.01	0.37	1.47	1.31	0.46	0.10	0.01	0.01	
		1.1	3.0	6.0	7.8	8.4	8.5	8.6	8.6	
11.1	12.0	0.0	0.08	0.73	0.98	0.33	0.12	0.04	0.01	
		0.4	1.1	2.6	4.1	4.7	4.8	4.8	4.8	
12.1	13.0	0.0	0.0	0.25	0.57	0.35	0.14	0.02		
		0.1	0.4	1.0	1.8	2.3	2.5	2.6		
13.1	14.0	0.0	0.06	0.22	0.15	0.10	0.05			
		0.1	0.4	0.8	1.0	1.2	1.2			
14.1	15.0	0.0	0.0	0.13	0.08	0.04	0.07			
		0.1	0.3	0.5	0.6	0.6	0.6			
15.1	16.0	0.0	0.0	0.02	0.03	0.04	0.04			
		0.1	0.2	0.3	0.3	0.3	0.3			
16.1	17.0	0.0	0.0	0.0	0.01	0.02	0.04	0.01		
		10.0	24.0	34.0	0.1	0.1	0.1	0.1		
17.1	18.0	0.0	0.0	0.0	0.0	0.04	0.01	0.01		
		20.0	48.0	68.0	0.0	0.0	0.1	0.1		
18.1	19.0	0.0	0.0	0.0	0.0	0.0	0.01			
		10.0	25.0	34.0	0.0	0.0	0.0	0.0		
		8.48	20.48	28.48	0.58	0.58	0.58	0.58		
		30.0	48.0	68.0	0.0	0.0	0.0	0.0		
		5.87	11.87	17.87	0.77	0.77	0.77	0.77		
		30.0	58.0	78.0	0.0	0.0	0.0	0.0		
		5.87	11.87	17.87	0.77	0.77	0.77	0.77		
		15.0	25.0	45.0	10.2	18.1	0.7	0.7		
		0.25	8.25	25.25	0.25	0.25	0.25	0.25		
		15.0	25.0	45.0	0.0	0.0	0.0	0.0		
		3.75	0.75	2.75	0.25	0.25	0.25	0.25		
		10.0	20.0	30.0	0.0	0.0	0.0	0.0		
		8.48	18.48	28.48	0.58	0.58	0.58	0.58		
		10.0	20.0	30.0	0.0	0.0	0.0	0.0		
		1.85	1.85	1.85	0.45	0.45	0.45	0.45		
		10.0	20.0	30.0	0.0	0.0	0.0	0.0		
		0.05	0.05	0.05	0.05	0.05	0.05	0.05		

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

April 1960-74

KINLOSS

(C SEC) Saturated Air-Temp Associated
ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T (DEG C)	WET-BULB T								
	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
- 6.9 TO - 6.0	0.04	0.05	0.01	0.51	0.51	0.0	0.0	0.0	0.0
	100.0								
- 5.9 TO - 5.0	0.06	0.01	0.01	0.01	0.0	0.0	0.01	0.01	0.0
	100.0								
- 4.9 TO - 4.0	0.19	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.0
	99.9	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- 3.9 TO - 3.0	0.31	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0
	99.6	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- 2.9 TO - 2.0	0.38	0.10	0.01	0.0	0.0	0.0	0.0	0.0	0.0
	99.2	99.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- 1.9 TO - 1.0	0.06	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	98.3	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- 0.9 TO 0.0	0.0	0.72	0.72	0.04	0.0	0.0	0.0	0.0	0.0
	96.8	97.7	97.7	0.0	0.0	0.0	0.0	0.0	0.0
0.1 TO 1.0	1.03	1.14	0.19	0.0	0.0	0.0	0.0	0.0	0.0
	94.4	96.1	96.3	0.0	0.0	0.0	0.0	0.0	0.0
1.1 TO 2.0	2.0	2.14	0.45	0.01	0.0	0.0	0.0	0.0	0.0
	90.1	93.3	93.9	93.9	0.0	0.0	0.0	0.0	0.0
2.1 TO 3.0	3.0	1.40	2.85	0.84	0.05	0.0	0.0	0.0	0.0
	83.8	88.9	90.0	90.0	0.0	0.0	0.0	0.0	0.0
3.1 TO 4.0	4.0	1.63	3.37	1.48	0.24	0.01	0.0	0.0	0.0
	75.9	82.4	84.6	84.9	84.9	0.0	0.0	0.0	0.0
4.1 TO 5.0	5.0	1.77	4.41	2.08	0.64	0.06	0.0	0.0	0.0
	65.6	74.3	77.4	78.1	78.2	0.0	0.0	0.0	0.0
5.1 TO 6.0	6.0	1.47	5.08	2.75	0.82	0.06	0.0	0.0	0.0
	53.7	63.8	68.1	69.2	69.2	0.0	0.0	0.0	0.0
6.1 TO 7.0	7.0	1.81	5.01	3.44	1.25	0.21	0.0	0.0	0.0
	41.3	52.2	57.3	58.8	59.0	0.0	0.0	0.0	0.0
7.1 TO 8.0	8.0	1.07	4.16	3.80	1.22	0.21	0.0	0.0	0.0
	29.0	39.5	45.4	47.0	47.3	0.0	0.0	0.0	0.0
8.1 TO 9.0	9.0	0.44	3.07	3.44	1.34	0.33	0.05	0.01	0.0
	18.2	27.9	34.3	36.4	36.8	36.8	36.8	36.8	0.0
9.1 TO 10.0	10.0	0.22	1.95	3.34	1.92	0.62	0.06	0.01	0.0
	10.3	17.8	24.4	27.3	28.1	28.1	28.1	28.1	0.0
10.1 TO 11.0	11.0	0.04	1.11	1.93	2.04	0.72	0.12	0.01	0.0
	4.5	10.1	15.6	18.9	19.9	20.0	20.0	20.0	0.0

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

April 1960-74

KINLOSS

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

DRY-BULB		DRY-BULB		DRY-BULB		DRY-BULB		DRY-BULB		DRY-BULB	
S-T	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		0.01	0.46	1.69	2.13	0.85	0.23	0.01	0.1	-	
		1.5	4.5	8.9	12.5	13.7	14.0	14.0			
12.1 TO 13.0		0.0	0.10	0.81	1.28	1.07	0.30	0.06	0.0	-	
		0.3	1.5	4.0	6.8	8.2	8.6	8.6			
13.1 TO 14.0		0.0	0.02	0.20	0.80	0.82	0.27	0.06	1.0		
		0.1	0.3	1.4	3.1	4.6	4.9	5.0			
14.1 TO 15.0		0.0	0.08	0.34	0.49	0.39	0.06	1.1	0.02		
		0.1	0.3	1.2	2.1	2.7	2.8	2.8			
15.1 TO 16.0			0.02	0.06	0.22	0.15	0.22	0.01	0.01		
			0.1	0.2	0.7	1.2	1.4		1.5		
16.1 TO 17.0				0.01	0.04	0.21	0.21	0.21	0.02		
				0.0	0.1	0.4	0.7	0.7	0.8		
17.1 TO 18.0				10.0	14.0	0.04	0.01	0.07	0.05	0.02	
				1.00	1.00	0.0	0.1	0.2	0.3	0.3	
18.1 TO 19.0				20.0	20.1	20.2	0.3	0.3	0.4	0.04	0.02
				2.00	2.00	2.00	1.00	1.00	0.1	0.1	0.1
19.1 TO 20.0		0.01		21.0	21.5	22.0	0.5	0.5	0.01	0.01	0.02
		0.0		2.00	2.00	2.00	0.00	0.00	0.0	0.0	0.0
				20.0	22.0	25.0	25.0	25.0	0.8	0.0	
				2.00	2.00	2.00	0.00	0.00	0.0		
				21.0	21.0	22.0	22.0	22.0	0.8	0.0	
				2.00	2.00	2.00	0.00	0.00	0.0		
				20.0	22.0	25.0	25.0	25.0	0.01	0.01	
				2.00	2.00	2.00	0.00	0.00	0.0		
				21.0	21.0	22.0	22.0	22.0	0.01	0.01	
				2.00	2.00	2.00	0.00	0.00	0.0		
				20.0	22.0	25.0	25.0	25.0	0.11	0.11	
				2.00	2.00	2.00	0.00	0.00	0.0		
				21.0	21.0	22.0	22.0	22.0	0.11	0.11	
				2.00	2.00	2.00	0.00	0.00	0.0		
				20.0	22.0	25.0	25.0	25.0	0.21	0.21	
				2.00	2.00	2.00	0.00	0.00	0.0		
				21.0	21.0	22.0	22.0	22.0	0.21	0.21	
				2.00	2.00	2.00	0.00	0.00	0.0		
				20.0	22.0	25.0	25.0	25.0	0.41	0.41	
				2.00	2.00	2.00	0.00	0.00	0.0		
				21.0	21.0	22.0	22.0	22.0	0.41	0.41	
				2.00	2.00	2.00	0.00	0.00	0.0		
				20.0	22.0	25.0	25.0	25.0	0.61	0.61	
				2.00	2.00	2.00	0.00	0.00	0.0		
				21.0	21.0	22.0	22.0	22.0	0.61	0.61	
				2.00	2.00	2.00	0.00	0.00	0.0		

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

KINLOSS

May 1960-74

WET-BULB

KINLOSS

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

S.T T (DEG C)	DRY-BULB								DRY-BULB		
	T-0	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8		
-1.9 TO -1.0	0.02	8.0	10.0	10.0	10.0	10.0	0.51	0.51	0.51	0.51	0.51
0.0	0.02	100.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
-0.9 TO 0.0	0.03	0.01	8.0	10.0	10.0	10.0	0.51	0.51	0.51	0.51	0.51
0.1 TO 1.0	0.13	0.06	8.0	10.0	10.0	10.0	0.51	0.51	0.51	0.51	0.51
1.1 TO 2.0	0.27	0.22	0.02	8.0	10.0	10.0	0.51	0.51	0.51	0.51	0.51
2.1 TO 3.0	0.58	0.61	0.04	8.0	10.0	10.0	0.51	0.51	0.51	0.51	0.51
3.1 TO 4.0	0.69	1.08	0.12	8.0	10.0	10.0	0.51	0.51	0.51	0.51	0.51
4.1 TO 5.0	0.82	1.71	0.44	0.01	8.0	10.0	0.51	0.51	0.51	0.51	0.51
5.1 TO 6.0	1.09	2.65	1.09	0.07	8.0	10.0	0.51	0.51	0.51	0.51	0.51
6.1 TO 7.0	1.56	4.45	2.16	0.49	10.0	10.0	0.51	0.51	0.51	0.51	0.51
7.1 TO 8.0	2.15	5.22	3.23	0.51	0.06	8.0	10.0	10.0	10.0	10.0	10.0
8.1 TO 9.0	2.33	5.59	4.10	1.07	0.12	0.01	8.0	10.0	10.0	10.0	10.0
9.1 TO 10.0	2.03	4.58	4.44	1.67	0.25	0.01	8.0	10.0	10.0	10.0	10.0
10.1 TO 11.0	0.81	2.81	3.74	2.21	0.47	0.05	8.0	10.0	10.0	10.0	10.0
11.1 TO 12.0	0.22	1.51	3.06	2.97	0.90	0.12	8.0	10.0	10.0	10.0	10.0
12.1 TO 13.0	0.10	0.80	1.75	3.15	1.40	0.22	0.01	8.0	10.0	10.0	10.0
13.1 TO 14.0	0.03	0.40	1.26	1.60	1.74	0.45	0.02	8.0	10.0	10.0	10.0
14.1 TO 15.0	0.0	0.10	0.57	1.09	1.29	0.69	0.12	8.0	10.0	10.0	10.0
15.1 TO 16.0	0.0	0.02	0.24	0.57	0.88	0.64	0.25	0.07	8.0	10.0	10.0
	0.2	0.7	1.8	3.5	5.2	6.2	6.5	6.6			

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

May 1960-74

KINLOSS

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)						(3 DEG) T		
16.1	TO 17.0		0.0	0.06	0.35	0.39	0.47	0.23	0.11	0.04
			0.2	0.6	1.5	2.6	3.5	3.8	3.9	4.0
17.1	TO 18.0			0.02	0.13	0.21	0.40	0.25	0.05	0.01
				0.2	0.6	1.1	1.8	2.2	2.3	2.3
18.1	TO 19.0				0.04	0.16	0.21	0.20	0.13	0.02
					0.1	0.4	0.8	1.1	1.2	1.3
19.1	TO 20.0					0.01	0.0	0.08	0.07	0.07
						0.0	0.1	0.4	0.5	0.5
20.1	TO 21.0						51.0	51.0	0.04	0.04
							5.00	0.1	0.1	0.3
21.1	TO 22.0						50.0	52.0	0.03	0.03
							5.00	5.22	0.0	0.1
22.1	TO 23.0						51.0	53.0	0.01	0.01
							5.00	5.22	5.33	0.0
							50.0	51.0	48.1	0.8
							5.00	5.70	5.22	0.7
							50.0	51.0	50.1	0.9
							5.00	5.70	5.22	0.7
17.1	TO 18.0		T-9	10.0	12.0	14.5	18.5	11.1	0.01	0T 1.0
			0.01	0.08	0.88	0.88	0.48	0.05		
			2.3	30.0	30.0	30.0	30.0	30.0	0.11	0T 1.01
18.1	TO 19.0		0.01	5.01	5.03	5.03	5.03	5.02	0.51	0T 1.11
			1.3	45.0	50.0	51.4	52.4	53.5	0.03	0T 1.11
				5.00	50.0	50.5	51.5	52.5	0.01	0T 1.11
				5.00	51.0	51.5	52.5	53.5	0.01	0T 1.11
22.1	TO 23.0		0.01	15.0	17.0	19.5	21.5	15.1	0.01	0T 1.51
			0.1	0.50	0.50	0.50	0.50	0.50	0.01	0T 1.51
				52.0	50.5	52.5	54.5	50.5	0.21	0T 1.41
				5.00	50.5	51.5	52.5	53.5	0.01	0T 1.41
				51.0	53.0	54.1	56.1	52.0	0.01	0T 1.41
				5.00	53.0	54.1	56.1	52.0	0.01	0T 1.41
				51.0	53.0	54.1	56.1	52.0	0.01	0T 1.41
				5.00	53.0	54.1	56.1	52.0	0.01	0T 1.41

Table 6.8 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

June 1960-74

KINLOSS

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB		WET-BULB								
T	T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
0.0	0.1 TO 1.0	0.0	0.01	0.0	0.0	0.0	0.0	0.71	0.71	0.71
0.1	0.2 TO 0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.3 TO 0.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.3	0.4 TO 0.7	0.08	0.02	0.0	0.0	0.0	0.0	0.81	0.81	0.81
0.4	0.5 TO 0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.6 TO 0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.6	0.7 TO 1.0	0.10	0.06	0.0	0.0	0.0	0.0	0.41	0.41	0.41
0.7	0.8 TO 1.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.8	0.9 TO 1.2	0.12	0.08	0.0	0.0	0.0	0.0	0.45	0.45	0.45
0.9	1.0 TO 1.3	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.0	1.1 TO 1.4	0.13	0.12	0.0	0.0	0.0	0.0	0.45	0.45	0.45
1.1	1.2 TO 1.5	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.2	1.3 TO 1.6	0.19	0.39	0.03	0.0	0.0	0.0	0.55	0.55	0.55
1.3	1.4 TO 1.7	98.6	99.2	99.3	100.0	100.0	100.0	100.0	100.0	100.0
1.4	1.5 TO 1.8	0.46	0.67	0.15	0.0	0.0	0.0	0.45	0.45	0.45
1.5	1.6 TO 1.9	97.2	98.5	98.7	100.0	100.0	100.0	100.0	100.0	100.0
1.6	1.7 TO 2.0	0.79	1.84	0.49	0.04	0.0	0.0	0.45	0.45	0.45
1.7	1.8 TO 2.1	93.2	95.7	97.3	97.4	100.0	100.0	100.0	100.0	100.0
1.8	1.9 TO 2.2	1.15	3.00	1.33	0.13	0.02	0.0	0.45	0.45	0.45
1.9	2.0 TO 2.3	85.7	92.4	94.1	94.2	94.2	100.0	100.0	100.0	100.0
2.0	2.1 TO 2.4	1.81	3.83	2.46	0.27	0.01	0.0	0.45	0.45	0.45
2.1	2.2 TO 2.5	74.7	84.5	88.3	88.6	88.6	100.0	100.0	100.0	100.0
2.2	2.3 TO 2.6	2.56	4.39	3.05	1.02	0.02	0.0	0.45	0.45	0.45
2.3	2.4 TO 2.7	59.5	72.9	78.9	80.2	80.2	100.0	100.0	100.0	100.0
2.4	2.5 TO 2.8	2.67	4.59	4.12	2.02	0.24	0.0	0.45	0.45	0.45
2.5	2.6 TO 2.9	42.2	56.9	65.9	68.9	69.2	100.0	100.0	100.0	100.0
2.6	2.7 TO 3.0	1.46	4.07	3.86	2.76	0.71	0.04	0.45	0.45	0.45
2.7	2.8 TO 3.1	26.6	39.6	49.7	54.6	55.5	55.5	100.0	100.0	100.0
2.8	2.9 TO 3.2	0.31	2.42	3.52	3.02	1.47	0.21	0.45	0.45	0.45
2.9	3.0 TO 3.3	15.7	25.1	34.0	40.3	42.4	42.6	100.0	100.0	100.0
3.0	3.1 TO 3.4	0.07	1.50	2.49	2.37	2.06	0.52	0.45	0.45	0.45
3.1	3.2 TO 3.5	8.6	15.3	22.4	27.8	31.0	31.7	100.0	100.0	100.0
3.2	3.3 TO 3.6	0.03	0.57	1.56	2.02	1.93	0.89	0.13	0.13	0.13
3.3	3.4 TO 3.7	4.2	8.5	13.8	18.3	21.3	22.5	22.6	22.6	22.6
3.4	3.5 TO 3.8	0.0	0.20	1.07	1.57	1.38	0.78	0.22	0.02	0.02
3.5	3.6 TO 3.9	2.2	4.2	7.9	11.6	14.2	15.2	15.5	15.5	15.5

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

KINLOSS June 1960-74

42-0601 741

KINLOSS

(3 DEG) 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
17.1 TO 18.0	0.0	0.07	0.38	1.13	1.19	0.73	0.21	0.04	
	0.6	2.2	4.0	6.6	8.7	9.9	10.2	10.3	
18.1 TO 19.0	0.0	0.0	0.23	0.65	0.65	0.47	0.25	0.07	0.01
	0.2	0.6	2.1	3.6	5.0	6.0	6.4	6.5	6.5
19.1 TO 20.0	0.0	0.06	0.33	0.39	0.37	0.29	0.09	0.01	
	0.2	0.6	1.9	2.7	3.5	4.0	4.2	4.2	
20.1 TO 21.0		0.01	0.06	0.31	0.21	0.16	0.07	0.04	
		0.2	0.6	1.5	1.9	2.3	2.5	2.6	
21.1 TO 22.0			0.01	0.12	0.23	0.07	0.13	0.07	
			0.1	0.5	1.1	1.3	1.6	1.7	
22.1 TO 23.0				0.03	0.04	0.19	0.07	0.07	
				0.1	0.4	0.7	0.9	1.0	
23.1 TO 24.0				0.0	0.03	0.03	0.05	0.08	0.05
				1.89	0.0	0.1	0.3	0.5	0.6
24.1 TO 25.0				0.0	0.01	0.04	0.11	0.11	0.07
				0.89	0.0	0.1	0.2	0.3	0.3
25.1 TO 26.0				0.0	0.0	0.01	0.01	0.01	0.01
				5.29	1.29	2.29	4.29	6.29	0.0
				25.0	25.0	25.0	25.0	25.0	0.0
				1.08	1.08	0.28	0.28	0.28	
	T-9	T-10							
21.1 TO 22.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
22.1 TO 23.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
23.1 TO 24.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
24.1 TO 25.0	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25.1 TO 26.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26.1 TO 27.0	0.02	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
27.1 TO 28.0		0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		1.2	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

Table 7 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
July 1960-74

AS-001 cont.

KINLOSS

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
1.0	1.1 TO 2.0	0.01	1.1	2.0	20.0	0.0	0.31	0.17	
	2.0	0.01	1.0	2.0	20.0	0.0	0.31	0.17	
2.0	2.1 TO 3.0	0.0	2.0	20.0	20.0	0.0	0.21	0.17	
2.0	3.1 TO 4.0	0.04	0.01	20.0	20.0	0.0	0.06	0.17	
2.0	4.1 TO 5.0	0.09	0.04	20.0	20.0		0.15	0.15	
2.0	5.1 TO 6.0	0.17	0.05	20.0			0.25	0.15	
2.0	6.1 TO 7.0	0.25	0.19				0.25	0.15	
2.0	7.1 TO 8.0	0.32	0.77	0.02			0.45	0.25	
2.0	8.1 TO 9.0	0.85	1.71	0.30			0.25	0.15	
2.0	9.1 TO 10.0	1.38	3.11	1.22	0.04		0.35	0.15	
2.0	10.1 TO 11.0	1.85	4.83	2.98	0.26				
		72.5	85.0	89.1	89.4				
2.0	11.1 TO 12.0	2.43	5.80	4.47	0.90	0.01			
		54.8	70.6	78.3	79.5	79.5			
2.0	12.1 TO 13.0	2.32	5.27	4.70	2.30	0.22			
		36.7	52.4	62.4	65.6	65.9			
2.0	13.1 TO 14.0	1.34	3.59	4.27	3.15	0.77	0.03		
		22.9	34.4	44.8	50.1	51.0	51.1		
2.0	14.1 TO 15.0	0.41	2.72	3.00	3.26	1.43	0.15		
		12.6	21.6	29.4	35.6	37.7	37.9		
2.0	15.1 TO 16.0	0.04	1.10	2.18	2.00	1.87	0.51	0.04	
		6.5	12.1	18.5	23.3	26.2	26.9	27.0	
2.0	16.1 TO 17.0	0.02	0.39	1.53	1.82	1.49	0.79	0.14	
		3.4	6.4	11.0	15.2	18.0	19.1	19.2	
2.0	17.1 TO 18.0	0.0	0.17	0.77	1.25	1.30	0.90	0.23	0.02
		1.4	3.4	6.0	9.1	11.4	12.7	13.0	13.0
2.0	18.1 TO 19.0	0.0	0.02	0.30	0.64	0.94	0.61	0.39	0.04
		0.5	1.4	3.2	5.1	6.9	7.9	8.3	8.4

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

July 1960-74

PERIOD 1960-74

KINLOSS

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

DRY-BULB

B-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	0.0	0.0	0.07	0.60	0.57	0.50	0.59	1.5	0.06
	0.1	0.5	1.4	2.9	4.1	5.0	5.4	5.5	
20.1 TO 21.0		0.0	0.0	0.23	0.49	0.29	0.16	1.8	0.11
		0.1	0.5	1.3	2.2	2.9	3.2	3.4	
21.1 TO 22.0			0.0	0.08	0.22	0.22	0.18	1.4	0.08
			0.1	0.5	1.1	1.5	1.9	2.0	2.1
22.1 TO 23.0				0.0	0.08	0.13	0.11	1.2	0.10
				T-9	0.1	0.4	0.8	1.0	1.2
23.1 TO 24.0	0.02				0.0	0.0	0.08	0.09	0.10
	0.8				5.0	1.0	0.3	0.6	0.7
24.1 TO 25.0	0.04				80.0	0.01	0.03	0.10	0.06
	0.4				2.80	0.0	0.1	0.2	0.4
25.1 TO 26.0	0.01				25.0	0.01	0.01	0.01	0.06
	0.2				0.50	0.0	0.0	0.1	0.2
26.1 TO 27.0	0.02				10.0	0.01	0.01	0.01	0.01
	0.0				0.50	0.00	0.00	0.0	0.0
					10.0	01.0	00.5	0.11	0.11
					4.88	4.88	4.88	4.88	
					20.0	02.0	01.8	0.51	0.51
					4.88	4.88	4.88	4.88	
					71.0	28.1	05.4	0.21	0.21
					4.88	4.88	4.88	4.88	
					20.0	22.0	22.0	0.41	0.41
					4.88	4.88	4.88	4.88	
					71.0	70.1	05.5	0.21	0.21
					4.88	4.88	4.88	4.88	
					20.0	22.0	22.0	0.41	0.41
					4.88	4.88	4.88	4.88	
					71.0	70.1	05.5	0.21	0.21
					4.88	4.88	4.88	4.88	
					10.0	05.0	04.1	0.11	0.11
					4.88	4.88	4.88	4.88	
					20.0	24.0	24.0	0.41	0.41
					4.88	4.88	4.88	4.88	
					71.0	70.1	05.5	0.21	0.21
					4.88	4.88	4.88	4.88	
					20.0	24.0	24.0	0.41	0.41
					4.88	4.88	4.88	4.88	
					71.0	70.1	05.5	0.21	0.21
					4.88	4.88	4.88	4.88	
					10.0	11.0	08.0	0.11	0.11
					4.88	4.88	4.88	4.88	
					20.0	25.0	25.0	0.41	0.41
					4.88	4.88	4.88	4.88	
					71.0	70.1	05.5	0.21	0.21
					4.88	4.88	4.88	4.88	

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

August 1960-74

KINLOSS

CHART

(O.D.E.T.) 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
2.1 TO 3.0	0.07	0.02	0.0	0.0	0.0	0.0	0.05	0.01	0.01
	100.0	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9
3.1 TO 4.0	0.12	0.03	0.0	0.0	0.0	0.0	0.05	0.01	0.01
	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
4.1 TO 5.0	0.13	0.06	0.0	0.0	0.0	0.0	0.05	0.01	0.01
	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
5.1 TO 6.0	0.13	0.22	0.0	0.0	0.0	0.0	0.05	0.01	0.01
	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
6.1 TO 7.0	0.36	0.39	0.02	0.0	0.0	0.0	0.05	0.01	0.01
	98.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
7.1 TO 8.0	0.53	0.82	0.08	0.0	0.0	0.0	0.05	0.01	0.01
	97.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
8.1 TO 9.0	1.01	1.93	0.25	0.0	0.0	0.0	0.05	0.01	0.01
	93.8	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0
9.1 TO 10.0	1.68	3.01	0.73	0.04	0.0	0.0	0.05	0.01	0.01
	87.1	92.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9
10.1 TO 11.0	2.41	4.36	2.00	0.19	0.01	0.0	0.05	0.01	0.01
	74.9	85.4	88.1	88.4	88.4	88.4	88.4	88.4	88.4
11.1 TO 12.0	3.06	5.64	3.46	0.54	0.05	0.0	0.05	0.01	0.01
	58.9	72.5	78.6	79.4	79.4	79.4	79.4	79.4	79.4
12.1 TO 13.0	3.12	5.39	4.29	1.85	0.17	0.0	0.05	0.01	0.01
	41.7	55.8	63.8	66.5	66.7	66.7	66.7	66.7	66.7
13.1 TO 14.0	1.78	4.01	4.09	2.35	0.61	0.03	0.05	0.01	0.01
	27.0	38.5	47.3	51.0	51.8	51.9	51.9	51.9	51.9
14.1 TO 15.0	1.20	3.00	3.27	2.72	1.07	0.17	0.05	0.01	0.01
	16.3	25.2	32.7	37.4	38.8	39.0	39.0	39.0	39.0
15.1 TO 16.0	0.21	1.66	2.41	2.23	1.41	0.29	0.01	0.01	0.01
	8.8	15.1	21.0	25.3	27.2	27.5	27.6	27.6	27.6
16.1 TO 17.0	0.11	0.92	1.66	1.73	1.33	0.41	0.01	0.01	0.01
	14.4	8.6	13.2	16.7	18.8	19.3	19.3	19.3	19.3
17.1 TO 18.0	0.03	0.52	1.25	1.56	1.16	0.63	0.15	0.01	0.01
	1.7	4.2	7.6	10.5	12.3	13.0	13.2	13.2	13.2
18.1 TO 19.0	0.01	0.07	0.55	1.05	0.86	0.38	0.11	0.01	0.01
	0.8	1.7	3.7	5.8	7.2	7.8	7.9	7.9	7.9
19.1 TO 20.0	0.01	0.04	0.19	0.66	0.65	0.36	0.15	0.01	0.01
	0.3	0.8	1.6	3.1	4.1	4.6	4.9	4.9	4.9

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

(cont.)

August 1960-74

Temperature 1960-74

KINLOSS

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
20.1 TO 21.0		0.0	0.06	0.18	0.40	0.30	0.07	0.07	
		0.3	0.8	1.4	2.2	2.6	2.7	2.8	
21.1 TO 22.0			0.02	0.15	0.16	0.20	0.11	0.05	0.01
			0.3	0.7	1.2	1.5	1.6	1.7	0.7
22.1 TO 23.0				0.02	0.07	0.16	0.10	0.01	
				0.3	0.5	0.8	1.0	1.0	
23.1 TO 24.0					0.01	0.06	0.04	0.07	0.06
					0.0	0.2	0.5	0.6	0.7
24.1 TO 25.0						0.10	0.08	0.03	0.01
						0.2	0.3	0.4	0.4
25.1 TO 26.0						0.01	0.03	0.04	0.03
						0.0	0.1	0.2	0.2
26.1 TO 27.0					50.0	51.0	52.0	0.01	0.05
	T-9				0.92	0.92	4.02	0.0	0.0
27.1 TO 28.0	0.01		40.0	45.0	11.1	0.0	0.1	0.1	0.01
	0.0		5.02	5.02	1.22	5.42			0.0
		10.0	50.0	55.0	55.5	50.0	0.8	0.1	0.1
		1.02	1.02	1.02	4.52	1.02			
				11.0	14.1	15.2	0.2	0.1	0.1
				1.02	5.02	5.88	0.18		
				10.0	50.0	40.5	0.01	0.01	0.01
				5.02	5.02	0.02	0.0		
				30.0	55.0	55.0	0.11	0.11	0.11
				5.02	1.02	1.02	0.02	0.02	
				21.0	40.5	11.1	18.2	50.5	0.51
				5.02	5.02	0.10	0.01	0.01	0.01
				20.0	44.0	25.5	42.4	50.5	0.41
				0.02	0.02	2.82	5.02	5.02	0.41
				50.0	55.0	40.5	50.5	50.0	0.41
				5.02	1.02	5.02	5.02	5.02	0.41
				10.0	41.0	08.0	02.5	10.5	0.41
				0.02	0.02	0.02	0.01	0.02	0.01
				50.0	41.0	01.1	00.1	00.0	0.41
				5.02	1.02	0.01	0.01	0.01	0.41

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

September 1960-74

KINLOSS

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
- 0.9 TO 0.0	0.04	0.0	81.0	80.0	0.0	0.0	0.0	0.0	0.0
	100.0		4.1	8.0	0.0				
0.1 TO 1.0	0.07	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	99.9	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1 TO 2.0	0.15	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	99.8	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1 TO 3.0	0.19	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	99.6	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1 TO 4.0	0.51	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	99.1	99.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1 TO 5.0	0.52	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	98.1	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.1 TO 6.0	0.52	0.85	0.02	0.0	0.0	0.0	0.0	0.0	0.0
	96.4	97.6	97.6	0.0	0.0	0.0	0.0	0.0	0.0
6.1 TO 7.0	0.76	1.11	0.24	0.04	0.0	0.0	0.0	0.0	0.0
	94.2	95.9	96.2	96.2	0.0	0.0	0.0	0.0	0.0
7.1 TO 8.0	0.95	2.22	0.53	0.03	0.01	0.0	0.0	0.0	0.0
	89.1	93.4	94.1	94.1	94.1	0.0	0.0	0.0	0.0
8.1 TO 9.0	1.31	3.24	1.47	0.11	0.0	0.0	0.0	0.0	0.0
	81.9	88.2	90.2	90.4	0.0	0.0	0.0	0.0	0.0
9.1 TO 10.0	1.78	4.67	2.04	0.52	0.01	0.0	0.0	0.0	0.0
	70.9	80.6	83.6	84.2	84.2	0.0	0.0	0.0	0.0
10.1 TO 11.0	2.51	5.27	3.10	0.77	0.06	0.0	0.0	0.0	0.0
	56.5	69.1	74.1	75.1	75.2	0.0	0.0	0.0	0.0
11.1 TO 12.0	2.92	5.81	4.11	1.34	0.19	0.0	0.0	0.0	0.0
	40.1	54.0	61.3	63.2	63.4	0.0	0.0	0.0	0.0
12.1 TO 13.0	2.12	4.36	4.54	2.35	0.44	0.06	0.0	0.0	0.0
	25.3	37.2	45.2	48.5	49.0	49.0	0.0	0.0	0.0
13.1 TO 14.0	0.68	2.83	3.56	2.44	0.75	0.02	0.0	0.0	0.0
	14.2	23.2	30.7	24.2	35.1	35.2	0.0	0.0	0.0
14.1 TO 15.0	0.26	2.00	2.81	2.50	0.89	0.14	0.01	0.0	0.0
	6.7	13.6	19.7	23.7	24.7	24.9	24.9	0.0	0.0
15.1 TO 16.0	0.08	0.84	1.64	1.93	1.10	0.14	0.02	0.0	0.0
	3.0	6.5	11.3	14.6	16.1	16.3	16.3	0.0	0.0

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

September 1960-74

KINLOSS

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

Table 10 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
October 1960-74

KINLOSS

September 1960-74

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

(3 deg) SHUTTLEWORTH DRY-BULB DATA

DRY-BULB

T (DEG C)	T	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
- 2.9 TO - 2.0	0.05	0.01							
	100.0	100.0	10.1	11.1	12.0	13.0	14.0	15.0	16.0
- 1.9 TO - 1.0	0.22	0.04	1.8	2.8	3.8	4.8	5.8	6.8	7.8
	99.9	99.9	99.0	98.0	97.0	96.0	95.0	94.0	93.0
- 0.9 TO 0.0	0.25	0.08	0.02	0.05	0.08	0.1	0.1	0.0	0.0
	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.1 TO 1.0	0.35	0.13							
	99.2	99.3	99.0	98.0	97.0	96.0	95.0	94.0	93.0
1.1 TO 2.0	0.57	0.39	0.01						
	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2.1 TO 3.0	0.83	0.64	0.05						
	96.9	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
3.1 TO 4.0	1.07	1.30	0.22	0.01					
	94.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3
4.1 TO 5.0	1.23	1.66	0.53	0.04					
	90.3	93.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7
5.1 TO 6.0	1.10	2.55	0.87	0.13					
	84.1	89.1	90.2	90.3	90.3	90.3	90.3	90.3	90.3
6.1 TO 7.0	1.82	4.01	1.87	0.22	0.01				
	75.3	83.0	85.4	85.6	85.6	85.6	85.6	85.6	85.6
7.1 TO 8.0	1.96	4.22	3.06	0.49	0.02				
	64.0	73.5	77.2	77.7	77.7	77.7	77.7	77.7	77.7
8.1 TO 9.0	2.15	5.06	3.98	0.62					
	51.5	62.1	67.3	68.0	68.0	68.0	68.0	68.0	68.0
9.1 TO 10.0	2.26	4.96	3.88	1.16	0.04				
	37.9	49.4	54.1	56.1	56.1	56.1	56.1	56.1	56.1
10.1 TO 11.0	1.41	3.66	4.11	1.36	0.04	0.01			
	26.3	35.6	42.2	43.8	43.8	43.8	43.8	43.8	43.8
11.1 TO 12.0	1.10	3.51	3.61	1.80	0.24	0.03			
	15.9	24.9	30.6	33.0	33.2	33.3	33.3	33.3	33.3
12.1 TO 13.0	0.52	2.62	3.03	1.66	0.56	0.02			
	7.9	14.8	20.3	22.4	22.9	23.0	23.0	23.0	23.0
13.1 TO 14.0	0.11	1.08	2.42	1.08	0.35	0.03			
	3.6	7.4	11.6	14.2	14.5	14.6	14.6	14.6	14.6
14.1 TO 15.0	0.01	0.49	0.25	1.25	0.53	0.02	0.01		
	1.3	3.5	6.2	8.0	8.7	8.7	8.7	8.7	8.7

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

220 TUNES

October 1960-74

KINLOSS

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB		WET-BULB						DEW-POINT	
S-T	T (DEG C)	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
15.1 TO 16.0	0.0 0.4	0.15 1.3	0.82 3.0	0.83 4.4	0.41 5.0	0.12 5.1	0.01 5.1	0.01 5.1	0.01 5.1
16.1 TO 17.0	0.0 0.1	0.3 0.4	0.40 1.1	0.53 2.1	0.40 2.6	0.13 2.8	0.02 0.2	0.02 0.2	0.02 0.2
17.1 TO 18.0	0.0 0.1	0.17 0.4	0.21 0.7	0.31 1.1	0.14 1.3	0.04 1.3	0.04 1.3	0.04 1.3	0.04 1.3
18.1 TO 19.0			0.04 0.1	0.13 0.2	0.09 0.3	0.07 0.4	0.04 0.4	0.04 0.4	0.04 0.4
19.1 TO 20.0			0.01 0.0	0.02 0.0	0.03 0.1	0.01 0.1	0.01 0.1	0.01 0.1	0.01 0.1
20.1 TO 21.0				0.01 0.0	0.01 0.0	0.01 0.0	0.01 0.0	0.01 0.0	0.01 0.0
		10.0 8.50	21.0 19.50	04.1 2.30	21.1 2.30	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
				21.0 19.50	55.5 1.50	02.8 0.80	0.1 0.1	0.0 0.0	0.0 0.0
				50.0 45.00	12.0 8.50	00.5 0.50	0.5 0.5	0.5 0.5	0.5 0.5
				50.0 45.00	20.1 15.00	02.5 1.00	0.5 0.5	0.5 0.5	0.5 0.5
				51.0 45.50	20.1 15.50	02.5 1.00	0.4 0.4	0.4 0.4	0.4 0.4
				51.0 45.00	22.5 15.00	02.5 1.00	0.6 0.6	0.6 0.6	0.6 0.6
				50.0 45.00	25.0 15.00	02.5 1.00	0.6 0.6	0.6 0.6	0.6 0.6
				50.0 45.00	25.0 15.00	02.5 1.00	0.6 0.6	0.6 0.6	0.6 0.6
				50.0 45.00	22.5 15.00	02.5 1.00	0.6 0.6	0.6 0.6	0.6 0.6
				50.0 45.00	25.0 15.00	02.5 1.00	0.6 0.6	0.6 0.6	0.6 0.6

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

49-0301 0000000

KINLOSS

(3000) MEAN 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	0.06 100.0	18.0 0.2	28.0 4.6	38.0 0.6	21.0 0.1	0.0 0.0	0.01 OT 1.21		
- 5.9 TO - 5.0	0.20 99.9	0.00 0.6	22.0 1.5	04.0 2.2	2.0 1.0	0.0 0.0	0.01 OT 1.21		
- 4.9 TO - 4.0	0.22 99.7	0.02 99.7	16.0 7.0	31.0 4.0	0.0 1.0		0.01 OT 1.21		
- 3.9 TO - 3.0	0.64 99.4	0.08 99.5	21.0 5.0	40.0 2.0			0.01 OT 1.21		
- 2.9 TO - 2.0	0.97 1.0	0.32 98.4	0.01 98.8	23.0 98.8			0.05 OT 1.21		
- 1.9 TO - 1.0	1.16 0.0	0.64 96.7	10.0 97.5				0.15 OT 1.25		
- 0.9 TO 0.0	1.79 93.9	1.40 95.5	0.15 95.7	0.01 95.7					
0.1 TO 1.0	2.53 89.3	2.22 92.1	0.19 92.3						
1.1 TO 2.0	2.00 82.1	3.49 86.8	0.51 87.3	0.02 87.3					
2.1 TO 3.0	2.33 74.4	4.38 80.1	1.05 81.3	0.05 81.3					
3.1 TO 4.0	1.89 63.3	5.99 72.1	1.09 73.4	0.12 73.5					
4.1 TO 5.0	2.18 50.9	7.06 61.4	2.52 64.2	0.18 64.4					
5.1 TO 6.0	1.64 39.1	5.92 48.7	3.23 52.2	0.25 52.5	0.01 52.5	0.02 52.5			
6.1 TO 7.0	2.01 29.8	4.62 37.4	3.19 41.1	0.28 41.4	0.03 41.4				
7.1 TO 8.0	1.59 19.4	4.48 27.8	2.55 30.8	0.46 31.3					
8.1 TO 9.0	1.14 11.9	3.27 17.8	3.23 21.7	0.48 22.2	0.02 22.2				
9.0 TO 10.0	0.95 6.9	2.06 10.7	2.35 13.4	0.61 14.0	0.02 14.1				

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

November 1960-74

KINLOSS

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Decamber 1960-74

ASSOCIATED WET-BULB TEMPERATURE (DEG C)
 (C DEG) 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	0.19	1.31	1.43	0.31	0.02	0.01	(0.000) T			
	3.2	6.0	7.7	8.0	8.1	8.1	0.01 - 0T Q.21-			
11.1 TO 12.0	0.03	0.79	1.19	0.32	0.01	0.001				
	1.3	3.1	4.5	4.8	4.8	10.0	0.01 - 0T Q.21-			
12.1 TO 13.0	0.0	0.27	0.72	0.25			0.001			
	0.5	1.3	2.2	2.5			40.0	0.21 - 0T Q.21-		
13.1 TO 14.0	0.0	0.09	0.44	0.21			0.001			
	0.2	0.5	1.0	1.2			50.0	0.21 - 0T Q.21-		
14.1 TO 15.0		0.04	0.15	0.11			0.22			
		0.2	0.4	0.5			40.0	0.11 - 0T Q.11-		
15.1 TO 16.0			0.06	0.08			0.22			
			0.1	0.2			40.0	0.01 - 0T Q.01-		
16.1 TO 17.0				0.06	0.01	0.01	0.22			
				0.1	0.1	10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
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						10.0	0.0 - 0T Q.0 -			
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						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			
						10.0	0.0 - 0T Q.0 -			
						8.00	0.0 - 0T Q.0 -			

СЕВЕРНАЯ АФРИКА И ЕВРОПА ОДНОГО ДНЯ ВО ВРЕМЯ КОМПАНИИ ВОЛГА

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

БОЛГАРИЯ

45-0001 градусов

December 1960-74

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(3 DEG) СЕВЕРНАЯ АФРИКА И ЕВРОПА

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB T T (DEG C)	WET-BULB T							T-8
	T	T-1	T-2	T-3	T-4	T-5	T-6 (DEG C)	
-15.9 TO -15.0	0.04	1.8	0.8	2.2	0.3	2.1	0.1	0.11 OF 1.01
	100.0	10.0	52.0	21.1	25.0	20.0	0.51	0.11
-14.9 TO -14.0	0.01	0.4	0.3	0.3	1.2	1.1		
	100.0	25.0	52.0	22.0	20.0	2.0	0.31	0.11
-13.9 TO -13.0	0.04		2.8	5.6	2.1	2.0		
	100.0	15.0	44.0	20.0	20.0	2.0	0.41	0.11
-12.9 TO -12.0	0.03		2.1	0.1	2.0	2.0		
	99.9	11.0	21.0	20.0	20.0	2.0	0.31	0.11
-11.9 TO -11.0	0.04		2.0	4.0	2.0	2.0		
	99.9	20.0	20.0	20.0	20.0	2.0	0.31	0.11
-10.9 TO -10.0	0.04		2.0	1.0				
	99.8	10.0	20.0				0.31	0.11
-9.9 TO -9.0	0.04	0.01	1.0					
	99.8	99.8						
-8.9 TO -8.0	0.09							
	99.8							
-7.9 TO -7.0	0.08	0.03						
	99.7	99.7						
-6.9 TO -6.0	0.12	0.01						
	99.6	99.6						
-5.9 TO -5.0	0.30	0.08						
	99.4	99.4						
-4.9 TO -4.0	0.59	0.14						
	98.9	99.1						
-3.9 TO -3.0	0.98	0.32						
	98.0	98.3						
-2.9 TO -2.0	1.05	0.48	0.01					
	96.4	97.0	97.0					
-1.9 TO -1.0	1.72	1.12	0.05					
	93.9	95.4	95.5					
-0.9 TO 0.0	2.32	1.68	0.26	0.04				
	90.1	92.2	92.5	92.6				
0.1 TO 1.0	3.55	3.75	0.43	0.03	0.01			
	83.2	87.8	88.2	88.3	88.3			

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

December 1960-74

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as older launch

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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
1.1 TO 2.0	3.44 72.9	5.10 79.6	0.76 80.5	0.02 80.5	0.03 80.5	0.01	0.01	0.01	0.01
2.1 TO 3.0	2.83 60.6	6.61 69.4	1.45 71.1	0.09 71.2	0.01	0.01	0.01	0.01	0.01
3.1 TO 4.0	2.15 47.4	7.39 57.8	2.02 60.0	0.17 60.2	0.01	0.01	0.01	0.01	0.01
4.1 TO 5.0	1.77 35.5	6.80 45.3	2.74 48.2	0.19 48.4	0.02 48.5	0.01	0.01	0.01	0.01
5.1 TO 6.0	1.34 25.7	4.70 33.7	2.67 36.7	0.20 36.9	0.01 36.9	0.01	0.01	0.01	0.01
6.1 TO 7.0	0.53 17.8	3.43 24.4	2.75 27.7	0.27 28.0	0.02 28.0	0.01	0.01	0.01	0.01
7.1 TO 8.0	0.46 12.2	2.65 17.3	2.77 20.4	0.46 20.9	0.06 21.0	0.01	0.01	0.01	0.01
8.1 TO 9.0	0.11 6.8	2.25 11.7	2.08 14.2	0.29 14.6	0.02 14.6	0.01 14.6	0.01	0.01	0.01
9.1 TO 10.0	0.04 3.5	0.98 6.7	20.8 9.4	0.38 9.8	0.04 9.8	0.03 9.9	0.03	0.03	0.03
10.1 TO 11.0	0.0 1.2	0.69 3.5	1.41 5.6	0.49 6.3	0.03 6.3	0.04 6.3	0.04	0.04	0.04
11.1 TO 12.0	0.0 0.1	0.48 1.2	1.23 2.8	0.58 3.5	0.10 3.7	0.02 3.7	0.02	0.02	0.02
12.1 TO 13.0	0.0 0.1	0.51 0.7	0.37 1.1	0.12 1.3	0.03 1.3	0.03	0.03	0.03	0.03
13.1 TO 14.0	0.01 0.0	0.07 0.1	0.08 0.2	0.02 0.2	0.03 0.2	0.03 0.3	0.03	0.03	0.03
14.1 TO 15.0		0.03 0.0	0.03 0.1						

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

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Annual 1960-74

Percentages 1960-74

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(C DEG) PERCENTAGE FREQUENCIES OF 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	0.00+	50.0	51.0	51.2	51.2	51.2	51.2	51.2	51.2
	100.0	50.0	51.0	51.2	51.2	51.2	51.2	51.2	51.2
-14.9 TO -14.0	0.00+	50.0	51.1	51.3	51.3	51.3	51.3	51.3	51.3
	100.0	50.0	51.1	51.3	51.3	51.3	51.3	51.3	51.3
-13.9 TO -13.0	0.00+	50.0	50.2	50.4	50.4	50.4	50.4	50.4	50.4
	100.0	50.0	50.2	50.4	50.4	50.4	50.4	50.4	50.4
-12.9 TO -12.0	0.00+	50.0	51.0	51.5	51.5	51.5	51.5	51.5	51.5
	100.0	50.0	51.0	51.5	51.5	51.5	51.5	51.5	51.5
-11.9 TO -11.0	0.01	50.0	51.0	51.5	51.5	51.5	51.5	51.5	51.5
	100.0	50.0	51.0	51.5	51.5	51.5	51.5	51.5	51.5
-10.9 TO -10.0	0.02	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	100.0	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-9.9 TO -9.0	0.03	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	100.0	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-8.9 TO -8.0	0.04	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	99.9	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-7.9 TO -7.0	0.07	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	99.9	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-6.9 TO -6.0	0.10	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	99.8	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-5.9 TO -5.0	0.15	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	99.6	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-4.9 TO -4.0	0.22	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	99.4	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-3.9 TO -3.0	0.36	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	99.0	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-2.9 TO -2.0	0.49	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	98.4	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-1.9 TO -1.0	0.67	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	97.3	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
-0.9 TO 0.0	0.98	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	95.6	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
0.1 TO 1.0	1.36	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	92.5	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
1.1 TO 2.0	1.43	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5
	88.2	50.0	51.5	51.5	51.5	51.5	51.5	51.5	51.5

Table 131 PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES
(cont)

BRONIA

Annual 1960-74

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(DEG) DRY-BULB 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
+00.0	2.1 TO 3.0	1.35	2.82	0.74	0.07	0.00+	0.05 OT 1.01	
2.0	3.1	82.7	86.8	87.6	87.7	87.7		
10.0	3.1 TO 4.0	1.21	3.17	0.97	0.11	0.02	0.15 OT 1.03	
2.0	4.1	76.5	81.4	82.6	82.7	82.8		
10.0	4.1 TO 5.0	1.08	3.35	1.39	0.20	0.02	0.00+	0.05 OT 1.05
2.0	5.1	69.8	75.3	77.0	77.2	77.3	77.3	
10.0	5.1 TO 6.0	0.90	3.06	1.68	0.24	0.02	0.01	0.05 OT 1.05
2.0	6.0	63.0	68.7	70.9	71.2	71.2	71.2	
10.0	6.1 TO 7.0	0.95	2.83	2.08	0.40	0.05	0.01	0.00+
2.0	7.0	56.4	62.1	64.8	65.3	65.3	65.3	
10.0	7.1 TO 8.0	0.87	2.76	2.15	0.51	0.06	0.01	0.00+
2.0	8.0	49.4	55.4	58.3	58.9	59.0	59.0	59.0
10.0	8.1 TO 9.0	0.89	2.71	2.32	0.57	0.08	0.02	0.00+
2.0	9.0	42.2	48.5	51.8	52.5	52.6	52.7	52.7
10.0	9.1 TO 10.0	1.02	2.62	2.39	0.77	0.13	0.01	0.01
2.0	10.0	34.6	41.3	44.9	45.9	46.1	46.1	46.1
+00.0	10.1 TO 11.0	0.98	2.46	2.29	0.91	0.16	0.03	0.00+
2.0		26.5	33.6	37.6	38.9	39.1	39.1	39.1
11.1 TO 12.0	1.04	2.39	2.40	1.21	0.25	0.04	0.00+	0.00+
	18.8	25.5	30.1	31.9	32.2	32.3	32.3	32.3
12.1 TO 13.0	0.80	1.91	2.05	1.41	0.43	0.07	0.01	
	12.0	17.7	22.1	24.3	24.9	24.9	24.9	
13.1 TO 14.0	0.35	1.21	1.66	1.33	0.56	0.10	0.01	
	7.1	11.2	15.0	17.3	18.1	18.3	18.3	
14.1 TO 15.0	0.16	0.82	1.14	1.16	0.66	0.18	0.02	0.00+
	3.8	6.8	9.6	11.8	12.8	13.0	13.1	13.1
15.1 TO 16.0	0.03	0.36	0.74	0.81	0.66	0.23	0.06	0.01
	1.9	3.7	5.8	7.5	8.5	8.8	8.9	8.9
16.1 TO 17.0	0.01	0.15	0.49	0.66	0.51	0.26	0.07	0.01
	0.9	1.9	3.3	4.7	5.5	5.9	6.0	6.0
17.1 TO 18.0	0.00+	0.07	0.26	0.41	0.43	0.26	0.09	0.01
	0.3	0.9	1.7	2.6	3.4	3.7	3.8	3.9
18.1 TO 19.0	0.00+	0.01	0.12	0.25	0.27	0.18	0.08	0.03
	0.1	0.3	0.8	1.4	1.9	2.2	2.3	2.3

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

Annual 1960-74

KINLOSS

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

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

Annual 1960-74

KINLOSS

ASSOCIATED WET-BULB TEMPERATURE (DEG C)

DRY-BULB

T-9 T-10

T (DEG C)

17.1 TO 18.0

0.00+

3.9

18.1 TO 19.0

0.00+

2.3

19.1 TO 20.0

0.00+

1.4

20.0 TO 21.0

0.01

0.5

21.1 TO 22.0

+
0.00+

22.1 TO 23.0

0.00+

0.3

23.1 TO 24.0

0.01

0.2

24.1 TO 25.0

0.01 0.00+

0.1 0.1

25.1 TO 26.0

0.00+

0.0

26.1 TO 27.0

0.00+

0.0

27.1 TO 28.0

0.00+ 0.00+

0.0 0.0

Table 14

PERCENTAGE FREQUENCY OF HOURLY DRY-BULB TEMPERATURES
KINLOSS 1960-74

DRY BULB TEMPERATURE (°.1C)	Year											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
-1.59	7.0	-1.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-1.49	7.0	-1.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-1.39	7.0	-1.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-1.29	7.0	-1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-1.19	7.0	-1.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-1.09	7.0	-1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.99	7.0	-0.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.89	7.0	-0.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.79	7.0	-0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.69	7.0	-0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.59	7.0	-0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.49	7.0	-0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.39	7.0	-0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.29	7.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.19	7.0	-0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.09	7.0	-0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00	7.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.09	7.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.19	7.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.29	7.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.39	7.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.49	7.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.59	7.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.69	7.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.79	7.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.89	7.0	0.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.99	7.0	0.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.09	7.0	1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.19	7.0	1.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.29	7.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.39	7.0	1.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.49	7.0	1.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.59	7.0	1.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.69	7.0	1.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.79	7.0	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.89	7.0	1.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.99	7.0	1.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.09	7.0	2.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 14 (cont.)

PERCENTAGE FREQUENCY OF HOURLY DRY-BULB TEMPERATURES

MELBOURNE 1960-74

BULB TEMPERATURE (°C.)

MONTH	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	YEAR
201	210	210	210	210	210	210	210	210	210	210	210	210	210
211	210	220	220	220	220	220	220	220	220	220	220	220	220
221	210	230	230	230	230	230	230	230	230	230	230	230	230
231	19	240	240	240	240	240	240	240	240	240	240	240	240
241	10	250	250	250	250	250	250	250	250	250	250	250	250
251	10	260	260	260	260	260	260	260	260	260	260	260	260
261	10	270	270	270	270	270	270	270	270	270	270	270	270
271	10	280	280	280	280	280	280	280	280	280	280	280	280

Or = less than 0.05 percent

Table 15

PERCENTAGE FREQUENCY OF HOURLY WET-BULB TEMPERATURES KINROSS 1960-74

WET BULB TEMPERATURE (C.°F.)

MONTH	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	YEAR
-159 TO -150	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
-149 TO -140	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 -130	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 -120	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
-119 TO -110	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
-109 TO -100	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
-99 TO -90	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
-89 TO -80	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
-79 TO -70	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
-69 TO -60	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
-59 TO -50	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
-49 TO -40	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
-39 TO -30	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
-29 TO -20	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
-19 TO -10	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
-9 TU 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
1 TU 10	10.3	10.8	11.5	12.4	13.4	14.0	14.6	15.0	15.5	16.1	16.7	17.3	17.9
2 TU 20	12.7	13.7	14.9	16.0	17.3	18.5	19.7	20.9	22.2	23.5	24.8	26.1	27.4
3 TU 30	10.2	10.5	10.9	11.7	12.5	13.6	14.5	15.3	16.2	17.1	18.0	18.9	19.6
4 TU 40	7.8	8.0	8.2	8.7	9.3	10.3	11.0	11.9	12.5	13.2	14.0	14.7	15.4
5 TU 50	10.1	10.5	11.3	12.5	13.6	14.7	15.8	16.9	18.0	19.1	20.2	21.3	22.4
6 TU 60	7.0	7.3	7.6	8.0	8.3	8.7	9.1	9.5	10.0	10.5	11.0	11.5	12.0
7 TU 70	12.3	12.7	13.3	14.0	14.7	15.4	16.1	16.8	17.5	18.2	18.9	19.6	20.3
8 TU 80	10.2	10.5	10.9	11.3	11.7	12.1	12.5	13.0	13.5	14.0	14.5	15.0	15.5
9 TU 90	7.9	8.0	8.2	8.5	8.7	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.6
10 TU 100	11.0	11.4	11.8	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7
11 TU 110	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.5	10.8	11.0	11.2	11.4	11.6
12 TU 120	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2
13 TU 130	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
14 TU 140	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
15 TU 150	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
16 TU 160	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
17 TU 170	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
18 TU 180	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
19 TU 190	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
20 TU 210	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

* less than 0.05 percent

