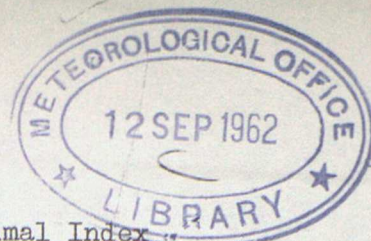


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METEOROLOGICAL OFFICE
CLIMATOLOGICAL SERVICES (M.O.3)
CLIMATOLOGICAL MEMORANDA, NO. 19

84002

COMBINED DISTRIBUTION OF HOURLY VALUES OF DRY-BULB AND WET-BULB
TEMPERATURES, PEMBROKE DOCK, 1946-1955

INTRODUCTION

Hourly observations of dry-bulb and wet-bulb temperature (to one tenth of a degree Fahrenheit) made at Pembroke Dock during the ten years 1946-1955 were analysed to obtain combined frequency distributions within ranges of two degrees F., for each month, for each of the quarters December-January-February, March-April-May, etc. and for the whole year. A ten-year period, giving 87,648 observations of each element, was considered to be the shortest which would give useful averages. Ranges of 2 F. were selected because they are sufficiently small to give a fairly detailed indication of frequencies at the higher and lower temperature limits of the distributions - often the regions of greatest interest.

METHOD OF TABULATION OF RESULTS

Tables I to XII are combined frequency tables of dry-bulb and wet-bulb temperatures for the months January to December respectively. Tables XIII to XVI are the corresponding tables for the four quarters, December-January-February, etc. Table XVII gives the corresponding annual frequencies. Table XVIII gives the frequencies of dry-bulb temperatures irrespective of wet-bulb temperatures, and Table XIX gives the frequencies of wet-bulb temperatures irrespective of dry-bulb temperatures.

The tabulations were made for the two degree ranges 20.1-22.0° F., 22.1-24.0 F., etc. For brevity in the tables, the range of dry-bulb temperatures in the first column is indicated by T but refers to the range T-0.9 to T+1.0 degrees F. Similarly, the values T, T-2, T-4 etc. (second, third and fourth columns, respectively, of Tables I-XVII) of wet-bulb temperatures refer to the ranges T-0.9 to T+1.0, T-2.9 to T-1.0, T-4.9 to T-3.0 etc., where the value of T for any frequency in the table is given by the figure in the first column in the same row. For example, if T (first column) is 45 F.,

the range of dry-bulb temperature is	44.1	to	46.0° F., and
" " " wet-bulb " "	44.1	"	46.0° F. (second column, T)
	42.1	"	44.0° F. (third column, T-2)
	40.1	"	42.0° F. (fourth column, T-4)
			etc.

For any given ranges of dry-bulb and wet-bulb temperature, two frequencies are indicated. The upper figure is the percentage frequency of occurrence within the given ranges; the lower figure is the cumulative percentage frequency of dry-bulb temperature and associated wet-bulb temperature greater than or equal to the lower values in the ranges indicated.

All percentage frequencies are correct to one place of decimals except that frequencies less than 0.1 per cent are correct to two places of decimals. Frequencies less than 0.005 per cent but greater than zero are entered as 0.0, while .. signifies that no occurrence was observed within the given range. The entry of 0.0 can occur only in the quarterly and annual summaries of frequencies and not in the monthly tables, where a single occurrence (that is, at one hourly observation) gives a frequency of 0.01 per cent approximately.

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The cumulative frequencies shown are merely the sums of the appropriate individual frequencies, correct to one place of decimals, and entered as 0.0 if less than 0.05 but greater than zero.

Example:-

For January (see Table 1), the percentage frequency of hours with dry-bulb temperature in the range 44.1 to 46.0 F. and associated wet-bulb temperature in the range 40.1 to 42.0 F. is obtained by locating the value 45 for dry-bulb temperature in column one (T) and then locating the frequency in the row opposite 45 and in the wet-bulb column T-4. The value of this percentage frequency is 2.7.

Again, for January (see Table 1), the percentage frequency of hours with dry-bulb temperature ≥ 44.1 F. and wet-bulb temperature ≥ 40.1 F. is obtained by locating the value 45 for dry-bulb temperature in column one (T) and then locating the cumulative frequency in the row opposite 45 and in the wet-bulb column T-4. The value of this cumulative percentage frequency is 47.7

Accumulated temperatures

Table XVIII, which gives the percentage frequency of occurrence of hourly values of dry-bulb temperature within given ranges, may be used to obtain the average number of degree-hours (and thus degree-days) to be expected above or below any base temperature. The number of degree-hours above a base "b" F. (where b is an even number) is given by the sum of the products obtained by multiplying the values given in each of the columns which refer to temperatures greater than b F (i.e. to the right of the column with a temperature range whose upper limit is b) by $N/100$, $3N/100$, $5N/100$, etc. respectively, where N is the number of hours in the month.

When b is an odd number, the above procedure should be carried out for (b-1) F. and (b+1) F., and the mean of these two derived values will give a good approximation to the number of degree-hours above the base b F.

To obtain the number of degree-hours below a given base b F. (where b is an even number), the procedure is the same except that the columns to be used are all those which would not be used in the above computation for degree-hours above the given base.

To obtain the number of degree-hours below a given base b F. where b is an odd number, the procedure is to calculate the number of degree hours below base (b-1) F. and (b+1) F. and to take the mean of these two derived values.

Since hourly observations have been used in the present work, averages of accumulated temperature derived in the above manner would be more accurate than those derived by using more approximate methods, as for example in Brit. Clim. Branch Memo No. 5; it should be pointed out, however, that the averages given in Branch Memo No. 5 relate to the 30-year period 1921-50 whereas the figures in Table XVIII are based on the 10-year period 1946-55.

OTHER RELATED MEMORANDA

Climatological Memo, No. 10 entitled "Combined distribution of hourly values of dry-bulb and wet-bulb temperatures, Croydon, 1946-1955", is similar in format to the present Memo but includes a series of ogives which express Tables I to XVII graphically. Climatological Memos Nos. 11 - 18 relate to Renfrew, Driffield, Boscombe Down, Manchester, Stornoway, Lympne, Elmdon and Aldergrove respectively (but without the ogives).

A further memorandum (No. 20) dealing with the combined distribution of hourly values of dry-bulb and wet-bulb temperatures at Mildenhall is being prepared.

TABLE 1. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCKJANUARY

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)				
	T	T-2	T-4	T-6	T-8
19	0.01 99.9	..	..	..	..
21	0.07 99.8	0.07 99.9	..	..	..
23	0.09 99.7	0.04 99.7	0.01 99.7	..	..
25	0.2 99.3	0.3 99.6	..	..	..
27	0.3 98.8	0.3 99.1	0.01 99.1	..	..
29	0.7 97.6	0.8 98.5	0.01 98.5	..	..
31	1.3 95.1	1.7 96.9	0.08 97.0	..	..
33	1.8 90.9	2.3 93.8	0.09 93.9	..	..
35	2.2 84.5	3.4 89.1	0.6 89.7	0.01 89.7	..
37	1.5 77.4	3.3 82.3	1.1 83.5	0.03 83.5	..
39	1.9 68.2	5.3 75.9	1.6 77.5	0.01 77.6	0.01 77.6
41	1.9 58.1	5.4 66.3	2.2 68.7	0.09 68.7	..
43	2.9 47.7	5.6 56.1	2.7 59.0	0.2 59.2	..
45	3.3 36.3	5.8 44.7	2.7 47.7	0.1 47.8	..
47	4.7 27.0	4.7 33.0	2.3 35.7	0.2 35.9	0.01 35.9
49	4.5 16.0	5.7 22.3	1.3 23.7	0.3 23.9	..
51	5.1 7.3	4.0 11.5	0.6 12.1	0.01 12.1	..
53	1.2 1.2	1.0 2.2	0.2 2.4	0.01 2.4	..
55	..	..	0.03 0.0	..	..

TABLE II. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCKFEBRUARY

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)						
	T	T-2	T-4	T-6	T-8	T-10	T-12
21	0.1 99.8	0.07 99.9	..	..	..	..	..
23	0.3 99.7	0.03 99.7	..	..	..	..	..
25	0.3 99.1	0.3 99.4	..	..	..	..	..
27	0.7 97.9	0.7 98.8	..	..	..	..	..
29	1.3 95.5	1.6 97.2	0.2 97.4	..	..	..	..
31	2.0 90.9	2.8 94.2	0.1 94.3	..	..	..	..
33	1.7 84.7	3.1 88.9	0.5 89.4	0.03 89.4	..	..	..
35	1.6 78.5	3.4 83.0	1.0 84.1	0.01 84.1	..	..	..
37	1.7 71.4	3.1 76.9	1.0 78.0	0.01 78.1	..	..	..
39	2.6 63.1	3.9 69.7	2.0 72.1	0.1 72.2	0.01 72.2	..	..
41	2.2 51.9	5.2 60.5	2.3 63.2	0.4 63.6	..	..	..
43	3.2 40.8	5.4 49.7	2.9 53.1	0.4 53.5	0.01 53.5	..	..
45	3.2 29.6	5.1 37.6	3.0 41.1	0.4 41.6	0.06 41.6	..	..
47	3.7 19.6	5.5 26.4	2.6 29.3	0.5 29.8	0.06 29.9	..	..
49	4.6 10.3	5.1 15.9	1.1 17.2	0.3 17.5	..	..	..
51	2.4 2.6	2.8 5.7	0.5 6.2	0.1 6.4	0.01 6.4	..	..
53	..	0.2 0.2	0.2 0.5	0.03 0.5	0.06 0.6	..	..
55	..	0.01 0.0	0.01 0.0	0.03 0.1	..	0.03 0.1	..
57	..	..	..	..	0.01 0.0	..	0.01 0.0

Table III Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCK

MARCH

(Hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)							
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14
21	0.03 99.9	..	..	..	..	..	..	..
23	0.1 99.8	..	..	..	..	..	..	..
25	0.1 99.7	0.01 99.7	..	..	..	..	..	..
27	0.3 99.5	0.07 99.6	..	..	..	..	..	..
29	0.6 98.8	0.4 99.3	..	..	..	..	..	..
31	1.0 97.1	0.9 98.2	0.09 98.3	..	..	..	..	..
33	1.1 93.9	1.4 96.1	0.1 96.3	..	..	..	..	..
35	1.5 88.8	2.3 92.7	0.7 93.7	0.01 93.7	..	..	..	..
37	2.2 82.1	2.7 87.3	1.2 88.9	0.2 89.1	..	..	..	..
39	2.4 72.4	3.8 79.9	1.6 82.4	0.4 82.9	..	..	..	..
41	2.3 63.6	3.6 70.0	2.5 73.7	0.7 74.6	0.03 74.7	..	..	..
43	3.7 54.6	4.0 61.3	1.9 64.1	0.8 65.3	0.2 65.5	0.01 65.5	..	..
45	4.6 43.3	5.5 50.9	1.7 53.6	0.8 54.5	0.3 54.9	0.03 54.9	..	..
47	6.5 29.9	5.9 38.7	1.7 40.8	0.8 41.8	0.07 41.9	0.04 42.0	..	..
49	6.9 15.5	5.4 23.4	2.3 26.3	0.4 26.7	0.2 26.9	0.03 27.0	..	..
51	1.1 4.1	2.7 8.6	1.9 11.1	0.5 11.7	0.04 11.7	0.01 11.7	..	..
53	0.03 1.0	0.8 3.0	1.0 4.8	0.5 5.4	0.05 5.5	..	..	..
55	0.04 0.4	0.1 1.0	0.6 2.2	0.5 2.9	0.1 3.1	..	..	..
57	..	0.01 0.3	0.2 0.8	0.4 1.5	0.2 1.7	0.07 1.8	..	..
59	..	0.01 0.1	0.05 0.3	0.1 0.6	0.1 0.9	0.03 0.9	..	..
61	..	..	0.01 0.1	0.05 0.3	0.1 0.5	0.09 0.6	0.01 0.6	..
63	..	..	..	0.03 0.1	0.04 0.2	0.03 0.3	0.04 0.3	..
65	..	..	..	0.03 0.1	0.04 0.1	0.01 0.1	0.04 0.2	..
67	..	..	..	0.03 0.0	..	..	0.04 0.1	0.01 0.1

TABLE IV. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCKAPRIL

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)							
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14
29	0.01 99.9	..	..	..	..	..	..	..
31	0.1 99.9	..	..	..	..	..	..	..
33	0.1 99.8	0.03 99.8	..	..	..	..	..	..
35	0.3 99.6	0.1 99.7	..	..	..	..	..	..
37	0.5 98.8	0.4 99.3	..	..	..	..	..	..
39	1.1 96.3	1.2 98.3	0.1 98.4	..	..	..	..	..
41	2.2 90.7	2.7 95.2	0.7 96.0	..	..	..	..	..
43	2.4 78.6	5.7 88.5	1.3 90.3	0.07 90.4	..	..	..	..
45	2.9 63.5	6.5 76.2	3.3 80.4	0.4 80.9	..	..	..	..
47	4.3 46.2	7.2 60.7	4.3 66.8	0.7 67.7	0.08 67.8	..	..	..
49	5.5 28.9	6.8 41.9	4.4 49.1	1.4 51.0	0.2 51.2	..	..	..
51	4.1 14.2	4.6 23.4	2.9 29.6	1.8 32.5	0.4 32.9	0.01 32.9	..	..
53	0.6 4.1	2.5 10.1	2.2 14.7	2.4 18.0	0.9 19.1	0.07 19.1	..	..
55	0.04 1.2	0.5 3.5	1.9 7.0	1.7 9.4	0.7 10.3	0.1 10.5	..	..
57	0.01 0.4	0.1 1.2	0.6 2.9	0.9 4.6	0.5 5.3	0.2 5.5	0.01 5.5	..
59	..	0.01 0.4	0.3 1.1	0.5 2.2	0.6 3.0	0.1 3.2	0.03 3.2	..
61	..	..	0.03 0.3	0.2 0.8	0.4 1.4	0.1 1.6	0.06 1.7	..
63	..	..	..	0.07 0.3	0.1 0.5	0.2 0.8	0.06 0.9	0.01 0.9
65	..	..	..	0.01 0.1	0.1 0.3	0.07 0.4	0.04 0.4	..
67	..	..	..	..	0.03 0.1	0.07 0.1	0.06 0.2	..
69	..	..	..	..	..	0.04 0.0	..	..

TABLE V. Percentage frequencies of dry-bulb and associated wet-bulb temperature.

PEMBROKE DOCKMAY

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F)								
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16
37	0.03 99.8	..	..	..	..	..	..	..	..
39	0.2 99.5	0.2 99.8	0.01 99.8	..	..	..	..	..	..
41	0.6 97.9	0.8 99.3	0.07 99.4	0.04 99.4	..	..	..	..	..
43	0.8 93.7	2.0 97.3	0.5 97.9	0.04 97.9	..	..	..	..	..
45	1.0 88.0	2.4 92.9	1.1 94.5	0.08 94.6	..	..	..	..	..
47	2.2 78.4	4.1 87.0	1.5 89.5	0.4 90.0	..	..	..	..	..
49	3.6 65.3	5.8 76.2	2.7 80.7	0.8 81.7	0.04 81.8	..	..	..	..
51	4.3 47.9	6.8 61.7	3.1 66.8	1.3 68.6	0.2 68.8	0.03 68.9	..	..	..
53	3.2 29.6	6.5 43.6	3.7 50.6	1.4 52.6	0.4 53.1	0.04 53.1	..	..	..
55	1.0 16.3	4.1 26.4	3.8 33.9	1.9 37.2	0.4 37.8	0.07 37.9	..	..	..
57	0.3 8.9	2.1 15.3	3.2 21.3	2.2 25.0	1.0 26.4	0.2 26.6	..	..	..
59	0.2 4.5	1.2 8.5	2.0 12.9	1.5 15.7	1.0 17.2	0.3 17.6	0.03 17.6	0.01 17.6	..
61	0.01 2.5	0.4 4.3	0.9 7.1	1.1 9.5	0.7 10.8	0.4 11.3	0.05 11.4	..	..
63	..	0.3 2.5	0.4 3.9	0.8 5.8	0.7 7.1	0.5 7.7	0.1 7.8	..	..
65	..	0.07 1.2	0.2 2.2	0.4 3.2	0.7 4.3	0.4 4.9	0.09 5.0	..	0.01 5.0
67	..	0.01 0.6	0.2 1.1	0.3 1.9	0.4 2.5	0.3 3.0	0.1 3.1	0.05 3.1	..
69	..	..	0.08 0.6	0.1 0.9	0.3 1.4	0.1 1.6	0.08 1.8	0.03 1.8	..
71	..	..	0.01 0.3	0.07 0.5	0.09 0.7	0.1 0.9	0.1 1.1	0.04 1.1	..
73	..	..	0.01 0.1	0.05 0.3	0.1 0.4	0.07 0.5	0.1 0.6	0.05 0.7	..
75	..	..	..	0.05 0.1	0.07 0.2	0.08 0.3	0.03 0.3	..	..
77	..	..	..	0.01 0.0	0.01 0.0	0.05 0.1	0.01 0.1	..	..

TABLE VI Percentage frequencies of dry-bulb and associated wet-bulb temperatures

PEMBROKE DOCKJUNE

(hourly observations 1946-1955)

Dry-bulb Temp. T (°F.)	Associated wet-bulb temp. (°F.)							
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14
43	0.01 100.0	..	..	..	..	..	..	..
45	0.2 99.8	0.08 100.0	..	..	..	..	..	..
47	0.4 98.3	0.8 99.6	0.07 99.7	..	..	..	..	..
49	1.3 95.1	1.6 97.9	0.4 98.4	0.04 98.4	..	..	..	..
51	2.6 87.7	3.4 93.8	0.8 94.9	0.1 95.1	..	..	..	..
53	5.0 71.8	7.6 85.1	1.7 87.8	0.3 88.1	0.03 88.2	..	..	..
55	6.4 51.9	7.0 66.8	3.3 72.5	0.7 73.5	0.07 73.5	..	..	..
57	5.2 30.6	6.9 45.5	3.9 53.4	1.7 55.8	0.3 56.1	..	..	..
59	2.2 15.3	4.2 25.4	4.1 33.3	2.9 37.4	0.6 38.1	..	..	..
61	1.1 7.7	2.0 13.1	2.7 19.0	2.5 22.9	0.8 24.0	0.08 24.1	..	..
63	0.2 3.7	1.0 6.6	1.6 10.0	1.8 13.2	1.1 14.5	0.3 14.9	0.01 14.9	..
65	0.03 1.7	0.5 3.5	0.8 5.4	0.9 7.2	0.8 8.6	0.2 8.9	0.04 8.9	..
67	..	0.1 1.7	0.4 2.9	0.5 4.1	0.5 5.0	0.4 5.6	0.03 5.6	..
69	..	..	0.3 1.5	0.4 2.4	0.3 3.1	0.3 3.5	0.2 3.7	0.03 3.7
71	..	..	0.07 0.6	0.3 1.3	0.2 1.7	0.3 2.1	0.1 2.2	..
73	..	..	..	0.1 0.5	0.2 0.9	0.2 1.1	0.03 1.2	..
75	..	..	..	0.01 0.2	0.1 0.4	0.1 0.6	0.07 0.7	0.01 0.7
77	..	..	..	0.01 0.0	0.04 0.2	0.07 0.3	0.08 0.4	..
79	..	..	..	..	..	0.08 0.1	0.01 0.2	0.01 0.2
81	..	..	..	..	..	0.01 0.0	0.03 0.0	0.03 0.1

TABLE VII Percentage frequencies of dry-bulb and associated wet-bulb temperatures

PEMBROKE DOCKJULY

(Hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)									
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16	T-18
47	0.05 100.0	..	..	..	..	..	..	..	..	..
49	0.2 99.7	0.1 99.9	..	..	..	..	..	..	..	..
51	0.6 97.9	0.9 99.5	0.1 99.6	..	..	..	..	..	..	..
53	1.2 91.9	2.5 97.3	0.5 98.0	0.03 98.0	..	..	..	..	..	..
55	2.6 78.8	5.6 90.7	1.7 93.6	0.1 93.8	..	..	..	..	..	..
57	4.3 60.5	8.4 76.2	3.3 82.5	0.9 83.7	0.07 83.8	..	..	..	..	..
59	6.0 41.4	7.6 56.2	4.4 63.5	1.9 66.5	0.3 66.8	..	..	..	..	..
61	3.2 22.6	6.4 35.4	4.0 42.6	2.1 45.5	0.8 46.6	0.04 46.6	..	..	..	..
63	0.9 10.8	3.1 19.4	3.7 25.8	2.1 29.0	0.4 29.8	0.2 30.1	..	..	..	..
65	0.2 5.8	1.1 9.9	2.6 15.4	1.5 18.1	0.8 19.2	0.3 19.6	0.07 19.7	..	..	..
67	0.1 2.7	0.4 5.6	1.0 8.6	1.4 11.5	0.8 12.7	0.3 13.0	0.09 13.1	..	..	..
69	..	0.2 2.7	0.6 5.1	0.8 7.1	0.8 8.6	0.2 9.0	0.05 9.0	..	..	..
71	0.01 0.5	0.07 0.9	0.3 2.5	0.6 4.3	0.7 5.5	0.4 6.2	0.1 6.4	..	..	..
73	..	..	0.09 0.8	0.4 2.1	0.7 3.3	0.4 3.8	0.3 4.2	0.04 4.2	..	..
75	..	..	0.07 0.5	0.08 0.7	0.5 1.6	0.5 2.1	0.08 2.2	0.07 2.3	0.01 2.3	..
77	..	..	..	0.04 0.4	0.07 0.5	0.3 0.9	0.01 0.9	0.01 1.0	0.01 1.0	..
79	..	..	..	0.01 0.2	0.1 0.3	0.04 0.4	0.03 0.5	0.01 0.5	..	..
81	..	..	..	..	0.08 0.2	0.04 0.2	0.03 0.3	0.01 0.3	..	..
83	..	..	..	..	0.05 0.1	0.03 0.1	..	..	0.03 0.2	..
85	..	..	..	..	..	0.01 0.0	0.01 0.0	..	0.01 0.0	0.03 0.1
87	..	..	..	..	..	..	..	0.01 0.0	..	..

TABLE VIII. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCK

AUGUST

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)								
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16
45	0.04 99.9	..	..	..	..	..	..	..	..
47	0.1 99.8	0.1 99.9	..	..	..	..	..	..	..
49	0.6 99.6	0.1 99.7	..	..	..	..	..	..	..
51	1.0 98.5	0.4 99.0	..	..	..	..	..	..	..
53	1.6 95.3	1.2 97.5	0.08 97.6	..	..	..	..	..	..
55	3.4 85.3	4.9 93.7	0.6 94.7	..	..	..	..	..	..
57	5.0 67.6	7.8 81.9	2.4 85.5	0.2 85.8	0.01 85.8	..	..	..	..
59	6.0 46.3	8.5 62.6	3.6 69.1	0.6 70.3	0.1 70.4	0.01 70.4	..	..	..
61	4.8 27.9	6.6 40.3	4.2 48.1	2.1 51.1	0.4 51.5	0.01 51.6	..	..	..
63	1.9 14.4	4.5 23.1	3.4 28.9	2.6 32.5	0.6 33.3	0.1 33.5	..	..	..
65	0.7 8.2	2.2 12.5	2.3 16.7	1.7 19.1	0.7 20.1	0.2 20.3	..	..	..
67	0.1 3.8	0.9 7.5	0.9 9.6	1.3 11.5	0.5 12.2	0.2 12.5	0.01 12.5	..	..
69	..	0.4 3.7	1.2 6.5	0.8 7.7	0.4 8.3	0.2 8.5	0.08 8.6	..	..
71	..	0.07 1.7	0.4 3.3	0.7 4.9	0.3 5.3	0.1 5.5	0.01 5.5	0.03 5.6	..
73	..	..	0.1 1.7	0.6 2.9	0.5 3.8	0.09 3.9	0.04 3.9	..	..
75	..	..	0.01 0.8	0.3 1.6	0.4 2.2	0.3 2.6	..	0.04 2.6	0.01 2.6
77	..	..	..	0.04 0.8	0.3 1.3	0.1 1.5	0.07 1.6	..	..
79	..	..	..	..	0.2 0.7	0.1 0.9	0.08 1.0	0.03 1.1	..
81	..	..	..	..	0.04 0.2	0.2 0.5	0.04 0.6	..	0.01 0.6
83	..	..	..	..	..	0.1 0.2	0.1 0.3	0.03 0.3	0.01 0.3
85	..	..	..	..	..	0.03 0.0	0.03 0.1	0.05 0.1	..

TABLE IX. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCKSEPTEMBER

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)							
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14
37	0.07 100.0	..	..	..	..	..	..	..
39	..	0.04 99.9	..	..	..	..	..	..
41	0.2 99.8	0.01 99.9	..	..	..	..	..	..
43	0.2 99.6	0.03 99.6	..	..	..	..	..	..
45	0.2 99.1	0.2 99.4	..	..	..	..	..	..
47	0.5 98.1	0.6 98.9	0.06 99.0	..	..	..	..	..
49	0.8 95.2	1.2 97.7	0.2 97.9	..	..	..	..	..
51	1.1 89.3	2.3 94.4	0.8 95.6	0.06 95.7	..	..	..	..
53	1.8 80.1	3.5 88.2	2.0 91.0	0.3 91.4	0.03 91.4	..	..	..
55	3.2 65.5	6.3 78.3	3.1 82.9	0.6 83.7	0.04 83.8	..	..	..
57	5.0 47.3	9.2 62.3	4.5 68.8	1.3 70.3	0.2 70.5	0.01 70.5	..	..
59	6.3 28.5	8.0 42.3	4.2 48.1	1.7 50.1	0.2 50.3	0.04 50.3	..	..
61	3.9 14.0	5.2 22.2	4.3 28.0	1.4 29.6	0.2 29.9	0.01 29.9	..	..
63	1.0 4.5	2.9 10.1	2.1 13.1	1.2 14.6	0.2 14.8	0.06 14.9	..	..
65	0.3 1.4	0.8 3.5	1.6 6.2	0.7 7.1	0.2 7.4	0.04 7.4	..	..
67	0.08 0.4	0.4 1.1	0.7 2.4	0.7 3.5	0.2 3.7	0.03 3.8	..	..
69	..	0.1 0.3	0.2 0.7	0.3 1.2	0.3 1.6	0.04 1.7	..	..
71	..	0.03 0.1	0.07 0.2	0.08 0.4	0.1 0.6	0.04 0.7	0.01 0.7	..
73	..	..	0.01 0.1	0.03 0.1	0.03 0.2	0.1 0.3	0.03 0.4	..
75	..	..	..	0.07 0.1	..	0.04 0.1	0.03 0.1	0.04 0.2

TABLE X Percentage frequencies of dry-bulb and associated wet-bulb temperatures

PEMBROKE DOCKOCTOBER

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)					
	T	T-2	T-4	T-6	T-8	T-10
33	0.07 99.9	..	..	..	..	..
35	0.3 99.7	0.1 99.9	..	..	..	..
37	0.4 99.3	0.1 99.5	..	..	..	..
39	0.7 98.6	0.3 98.9	..	..	..	..
41	0.7 97.0	0.7 97.9	0.03 97.9	..	..	..
43	1.0 94.0	1.5 96.3	0.1 96.5	..	..	..
45	1.6 89.0	2.1 93.0	0.6 93.8	0.1 93.9	..	..
47	2.1 81.1	3.3 87.4	1.4 89.3	0.2 89.5	..	..
49	2.6 71.3	4.0 79.0	2.4 82.0	0.5 82.5	..	..
51	2.6 57.7	5.7 68.7	2.7 72.4	0.6 73.0	..	..
53	3.0 43.4	6.2 55.1	4.2 60.4	0.9 61.4	0.04 61.4	..
55	3.5 31.2	5.6 40.4	3.8 45.9	1.0 47.0	0.05 47.1	..
57	4.8 19.5	6.3 27.7	3.2 31.3	1.5 33.0	0.1 33.1	..
59	3.9 9.2	4.0 14.7	1.5 16.6	0.4 17.0	0.1 17.2	0.01 17.2
61	0.8 2.6	2.0 5.3	1.2 6.8	0.2 7.2	0.01 7.2	0.08 7.3
63	0.3 0.7	0.9 1.8	0.6 2.5	0.2 2.8	0.2 3.0	..
65	..	0.3 0.4	0.2 0.6	0.08 0.7	0.08 0.8	0.01 0.8
67	..	0.03 0.1	0.03 0.1	..	0.05 0.2	..
69	..	..	0.05 0.1	..	..	..

TABLE XI Percentage frequencies of dry-bulb and associated wet-bulb temperatures

PEMBROKE DOCKNOVEMBER

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)				
	T	T-2	T-4	T-6	T-8
29	0.2 100.0	0.01 100.0	..	..	..
31	0.3 99.8	0.01 99.8	..	..	..
33	0.5 99.2	0.3 99.5	..	..	..
35	1.1 98.3	0.4 98.7	..	..	..
37	1.6 95.7	1.2 97.2	0.01 97.2	..	..
39	1.5 91.8	1.9 94.1	0.2 94.4	..	..
41	1.5 87.2	2.1 90.3	0.4 90.7	0.01 90.8	..
43	2.0 81.6	2.6 85.7	0.9 86.7	0.01 86.7	..
45	2.5 70.1	4.5 79.6	1.3 81.1	0.1 81.2	..
47	2.3 55.1	6.4 67.6	4.4 72.6	0.2 72.8	..
49	3.1 41.5	6.9 52.8	5.3 58.9	0.6 59.5	0.01 59.5
51	3.1 28.1	7.0 38.4	4.0 42.8	0.8 43.6	0.01 43.6
53	3.8 18.5	5.3 25.0	3.1 28.3	0.4 28.7	0.01 28.7
55	4.1 9.5	4.7 14.7	1.2 15.9	0.2 16.1	0.01 16.1
57	2.4 3.1	2.1 5.4	0.5 5.9	0.04 5.9	..
59	0.06 0.1	0.6 0.7	0.2 0.9	..	..

TABLE XII. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCKDECEMBER

(hourly values 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)				
	T	T-2	T-4	T-6	T-8
25	0.07 99.9	0.03 99.9	..	..	..
27	0.2 99.8	0.01 99.8	..	..	..
29	0.2 99.5	0.1 99.6	..	..	..
31	0.4 98.9	0.3 99.3	..	..	..
33	0.8 97.5	0.8 98.5	0.1 98.6	..	..
35	1.2 94.9	1.2 96.7	0.2 96.9	..	..
37	1.8 89.7	3.1 93.7	0.6 94.3	0.01 94.3	..
39	1.9 82.7	3.6 87.9	0.8 88.8	..	..
41	2.1 74.6	4.0 80.8	1.5 82.4	0.09 82.5	..
43	1.9 64.3	4.6 72.5	2.1 74.7	0.1 74.8	..
45	3.3 52.0	6.2 62.4	3.2 66.0	0.1 66.1	..
47	3.5 38.7	6.8 48.7	4.0 52.9	0.4 53.3	..
49	4.3 27.1	6.3 35.2	3.0 38.4	0.2 38.6	0.01 38.6
51	5.7 15.9	6.0 22.8	1.8 24.6	0.2 24.8	..
53	3.2 4.9	5.2 10.2	0.8 11.1	0.04 11.1	..
55	0.8 1.0	0.7 1.7	0.1 1.8	0.05 1.9	..
57	0.03 0.0	0.2 0.2	..	..	..

TABLE XIII. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCK.DECEMBER-JANUARY-FEBRUARY

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)						
	T	T-2	T-4	T-6	T-8	T-10	T-12
19	0.0 99.9	..	..	..	..	..	..
21	0.06 99.9	0.05 99.9	..	..	..	..	..
23	0.1 99.8	0.02 99.8	0.0 99.8	..	..	..	..
25	0.2 99.5	0.2 99.7	..	..	..	..	..
27	0.4 98.9	0.3 99.3	0.0 99.3	..	..	..	..
29	0.7 97.7	0.8 98.5	0.06 98.6	..	..	..	..
31	1.2 95.1	1.6 96.9	0.07 97.0	..	..	..	..
33	1.4 91.3	2.0 93.9	0.2 94.1	0.01 94.2	..	..	..
35	1.7 86.3	2.7 89.9	0.6 90.5	0.01 90.5	..	..	..
37	1.7 79.8	3.2 84.6	0.9 85.5	0.02 85.5	..	..	..
39	2.1 71.6	4.2 78.1	1.4 79.7	0.05 79.7	0.01 79.7	..	..
41	2.1 61.9	4.8 69.5	2.0 71.8	0.2 72.0	..	..	..
43	2.6 51.2	5.2 59.8	2.6 62.6	0.2 62.9	0.0 62.9	..	..
45	3.3 39.6	5.7 48.6	3.0 52.0	0.2 52.2	0.02 52.3	..	..
47	4.0 28.7	5.7 36.3	3.0 39.6	0.4 40.0	0.02 40.0	..	..
49	4.5 18.0	5.7 24.7	1.8 26.6	0.3 26.9	0.0 26.9	..	..
51	4.4 8.7	4.3 13.5	1.0 14.5	0.1 14.6	0.0 14.6	..	..
53	1.5 2.1	2.2 4.3	0.4 4.8	0.03 4.8	0.02 4.8	..	..
55	0.3 0.4	0.2 0.6	0.06 0.6	0.03 0.7	..	0.01 0.7	..
57	0.01 0.0	0.06 0.1	..	..	0.0 0.1	..	0.0 0.1

TABLE XIV Percentage frequencies of dry-bulb and associated wet-bulb temperature

PEMBROKE DOCKMARCH-APRIL-MAY

(hourly observations 1946-1955)

Dry-bulb Temp. T (°F.)	Associated wet-bulb temp. (°F.)								
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16
21	0.01 100.0	..	..	..	..	..	..	..	..
23	0.04 99.9	..	..	..	..	..	..	..	..
25	0.04 99.9	0.0 99.9	..	..	..	..	..	..	..
27	0.1 99.8	0.02 99.9	..	..	..	..	..	..	..
29	0.2 99.6	0.1 99.7	..	..	..	..	..	..	..
31	0.4 99.1	0.3 99.4	0.03 99.4	..	..	..	..	..	..
33	0.4 97.9	0.5 98.7	0.04 98.7	..	..	..	..	..	..
35	0.6 96.2	0.8 97.5	0.2 97.8	0.0 97.8	..	..	..	..	..
37	0.9 93.7	1.0 95.6	0.4 96.1	0.07 96.2	..	..	..	..	..
39	1.3 89.6	1.7 92.8	0.6 93.7	0.1 93.8	..	..	..	..	..
41	1.7 84.3	2.4 88.3	1.1 89.8	0.2 90.1	0.01 90.1	..	..	..	..
43	2.3 75.9	3.9 82.6	1.2 84.2	0.3 84.6	0.06 84.7	0.0 84.7	..	..	..
45	2.9 65.2	4.8 73.6	2.0 76.4	0.4 76.8	0.09 76.9	0.01 76.9	..	..	..
47	4.3 51.7	5.8 62.3	2.5 65.9	0.6 66.7	0.05 66.7	0.01 66.7	..	..	..
49	5.4 36.8	6.0 47.3	3.1 52.2	0.9 53.3	0.1 53.5	0.01 53.5	..	..	..
51	3.2 22.3	4.7 31.4	2.6 35.9	1.2 37.7	0.2 37.9	0.02 38.0	..	..	..
53	1.3 11.6	3.3 19.1	2.3 23.5	1.4 25.5	0.5 26.0	0.04 26.0	..	..	..
55	0.4 6.0	1.6 10.3	2.1 14.5	1.4 16.6	0.4 17.1	0.05 17.2	..	..	..
57	0.1 3.0	0.8 5.6	1.3 8.3	1.2 10.4	0.6 11.1	0.1 11.3	0.0 11.3	..	..
59	0.05 1.4	0.4 2.9	0.8 4.7	0.7 6.1	0.6 7.0	0.1 7.1	0.02 7.1	0.0 7.1	..

/Cont'd.

TABLE XIV Percentage frequencies of dry-bulb and associated wet-bulb temperature

PEMBROKE DOCKMARCH-APRIL-MAY

(hourly observations 1946-1955)

Cont'd. from previous page

Dry-bulb temp. T (°F.)	Associated wet-bulb (°F.)								
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16
61	0.0	0.1	0.3	0.5	0.4	0.2	0.04		
	0.9	1.4	2.4	3.5	4.2	4.4	4.5	..	..
63		0.1	0.1	0.3	0.3	0.2	0.07	0.0	
	..	0.9	1.3	2.0	2.6	2.9	2.9	2.9	..
65		0.02	0.07	0.1	0.3	0.2	0.06		0.0
	..	0.4	0.7	1.1	1.5	1.8	1.9	..	1.9
67		0.0	0.06	0.1	0.1	0.1	0.07	0.02	
	..	0.2	0.4	0.7	0.9	1.0	1.1	1.1	..
69			0.03	0.04	0.1	0.06	0.03	0.01	
	..	..	0.2	0.3	0.5	0.6	0.7	0.7	..
71			0.0	0.02	0.03	0.05	0.04	0.01	
	..	..	0.1	0.2	0.2	0.3	0.4	0.4	..
73			0.0	0.02	0.05	0.02	0.04	0.02	
	..	..	0.0	0.1	0.2	0.2	0.2	0.3	..
75				0.02	0.02	0.03	0.01		
	..	..	..	0.0	0.1	0.1	0.1	..	..
77				0.0	0.0	0.02	0.0		
	..	..	..	0.0	0.0	0.0	0.0	..	..

TABLE XV. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCKJUNE-JULY-AUGUST

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)									
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16	T-18
43	0.0 99.8	..	..	..	..	..	..	..	..	..
45	0.09 99.7	0.03 99.8	..	..	..	..	..	..	..	..
47	0.2 99.2	0.3 99.7	0.02 99.7	..	..	..	..	..	..	..
49	0.7 98.0	0.6 99.0	0.1 99.1	0.01 99.2	..	..	..	..	..	..
51	1.4 94.6	1.5 97.3	0.3 97.7	0.05 97.7	..	..	..	..	..	..
53	2.6 86.4	3.7 93.2	0.8 94.4	0.1 94.5	0.01 94.5	..	..	..	..	..
55	4.1 72.1	5.8 83.8	1.8 86.9	0.3 87.3	0.02 87.3	..	..	..	..	..
57	4.8 53.0	7.7 68.0	3.2 73.9	0.9 75.2	0.1 75.3	..	..	..	..	..
59	4.8 34.4	6.8 48.2	4.1 55.5	1.8 58.2	0.3 58.6	0.0 58.6	..	..	..	..
61	3.1 19.4	5.1 29.6	3.6 36.6	2.2 39.8	0.7 40.7	0.05 40.8	..	..	..	..
63	1.0 9.6	2.9 16.3	2.9 21.4	2.2 24.8	0.7 25.8	0.2 26.0	0.0 26.0	..	..	..
65	0.3 5.3	1.3 8.6	1.9 12.4	1.4 14.6	0.8 15.8	0.2 16.1	0.04 16.1	..	..	..
67	0.09 2.5	0.5 5.0	0.8 7.0	1.0 8.9	0.5 9.7	0.3 10.1	0.05 10.2	..	..	..
69	..	0.2 2.4	0.7 4.4	0.5 5.6	0.5 6.5	0.2 6.8	0.1 6.9	0.01 6.9	..	..
71	0.0 0.4	0.05 0.9	0.3 2.2	0.5 3.5	0.4 4.2	0.3 4.6	0.08 4.7	0.01 4.7	..	..
73	..	..	0.08 0.8	0.4 1.8	0.5 2.7	0.2 2.9	0.1 3.1	0.01 3.1	..	..
75	..	..	0.03 0.4	0.1 0.8	0.3 1.3	0.3 1.7	0.05 1.7	0.04 1.8	0.01 1.8	..
77	..	..	..	0.03 0.4	0.1 0.6	0.2 0.9	0.05 1.0	0.0 1.0	0.0 1.0	..
79	..	..	..	0.0 0.1	0.1 0.4	0.09 0.5	0.04 0.6	0.02 0.6	..	..
81	..	..	..	..	0.04 0.1	0.07 0.3	0.03 0.3	0.01 0.3	0.0 0.3	..
83	..	..	..	..	0.02 0.0	0.05 0.1	0.05 0.2	0.01 0.2	0.01 0.2	..
85	..	..	..	..	..	0.01 0.0	0.01 0.0	0.02 0.0	0.0 0.0	0.01 0.1
87	..	..	..	..	..	..	..	0.0 0.0	..	..

TABLE XVI. Percentage frequencies of dry-bulb and associated wet-bulb temperatures.

PEMBROKE DOCK

SEPTEMBER-OCTOBER-NOVEMBER.

(hourly observations 1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temp. (°F.)							
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14
29	0.05 99.9	0.0 99.9	..	..	..	..	..	..
31	0.1 99.9	0.0 99.9	..	..	..	..	..	..
33	0.2 99.7	0.09 99.8	..	..	..	..	..	..
35	0.5 99.3	0.2 99.5	..	..	..	..	..	..
37	0.7 98.3	0.4 98.8	0.0 98.8	..	..	..	..	..
39	0.7 96.7	0.8 97.6	0.07 97.7	..	..	..	..	..
41	0.8 94.7	0.9 96.0	0.1 96.1	0.0 96.1	..	..	..	..
43	1.0 91.7	1.4 93.9	0.3 94.3	0.0 94.3	..	..	..	..
45	1.4 86.1	2.3 90.7	0.7 91.5	0.07 91.6	..	..	..	..
47	1.6 78.2	3.4 84.7	1.9 87.1	0.1 87.1	..	..	..	..
49	2.2 69.5	4.0 76.6	2.6 79.7	0.4 80.1	0.0 80.1	..	..	..
51	2.3 58.5	5.0 67.3	2.5 70.4	0.5 70.9	0.0 70.9	..	..	..
53	2.9 47.3	5.0 56.2	3.1 60.0	0.6 60.6	0.03 60.7	..	..	..
55	3.6 35.4	5.5 44.4	2.7 48.3	0.6 49.0	0.04 49.0	..	..	..
57	4.1 23.3	5.9 31.8	2.7 35.3	1.0 36.5	0.1 36.6	0.0 36.6	..	..
59	3.4 12.6	4.2 19.2	2.0 21.8	0.7 22.6	0.1 22.8	0.02 22.8	..	..
61	1.6 5.5	2.4 9.2	1.8 11.6	0.5 12.2	0.07 12.3	0.03 12.4	..	..
63	0.5 1.7	1.3 3.9	0.9 5.2	0.5 5.8	0.1 5.9	0.02 6.0	..	..
65	0.08 0.4	0.3 1.2	0.6 2.1	0.3 2.5	0.09 2.6	0.02 2.6	..	..
67	0.03 0.1	0.1 0.4	0.3 0.8	0.2 1.1	0.08 1.2	0.01 1.3	..	..
69	..	0.03 0.1	0.09 0.2	0.09 0.4	0.09 0.5	0.01 0.5	..	..
71	..	0.01 0.0	0.02 0.1	0.03 0.1	0.04 0.2	0.01 0.2	0.0 0.2	..
73	..	..	0.0 0.0	0.01 0.0	0.01 0.1	0.03 0.1	0.01 0.1	..
75	..	..	..	0.02 0.0	..	0.01 0.0	0.01 0.0	0.01 0.1

TABLE XVII Percentage frequencies of dry-bulb and associated wet-bulb temperatures

PEMBROKE DOCK

ANNUAL (1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temperature (°F.)									
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16	T-18
19	0.0 100.0	..	..	..	..	..	..	..	..	..
21	0.02 100.0	0.01 100.0	..	..	..	..	..	..	..	..
23	0.04 100.0	0.01 100.0	0.0 100.0	..	..	..	..	..	..	..
25	0.05 100.0	0.06 100.0	..	..	..	..	..	..	..	..
27	0.1 100.0	0.08 100.0	0.0 100.0	..	..	..	..	..	..	..
29	0.2 99.7	0.2 100.0	0.01 100.0	..	..	..	..	..	..	..
31	0.4 99.0	0.5 99.5	0.03 99.6	..	..	..	..	..	..	..
33	0.5 97.7	0.7 98.6	0.06 98.7	0.0 98.7	..	..	..	..	..	..
35	0.7 95.9	0.9 97.2	0.2 97.4	0.0 97.4	..	..	..	..	..	..
37	0.8 93.4	1.2 95.2	0.3 95.6	0.02 95.6	..	..	..	..	..	..
39	1.0 90.0	1.7 92.6	0.5 93.2	0.05 93.3	0.0 93.3	..	..	..	..	..
41	1.1 85.7	2.0 89.0	0.8 89.9	0.1 90.0	0.0 90.0	..	..	..	..	..
43	1.5 80.3	2.6 84.7	1.0 85.9	0.1 86.0	0.02 86.0	0.0 86.0	..	..	..	..
45	1.9 73.2	3.2 78.8	1.4 80.5	0.2 80.8	0.03 80.8	0.0 80.8	..	..	..	..
47	2.5 65.0	3.8 71.3	1.9 73.7	0.3 74.1	0.02 74.1	0.0 74.1	..	..	..	..
49	3.2 56.2	4.1 62.5	1.9 65.0	0.4 65.5	0.04 65.5	0.0 65.5	..	..	..	..
51	2.8 46.6	3.9 53.0	1.6 55.2	0.5 55.8	0.06 55.9	0.01 55.9	..	..	..	..
53	2.1 37.3	3.6 43.8	1.6 46.3	0.5 46.9	0.1 47.0	0.01 47.0	..	..	..	..

TABLE XVII Percentage frequencies of dry-bulb and associated wet-bulb temperature (Cont.)

PEMBROKE DOCK

ANNUAL (1946-1955)

Dry-bulb temp. T (°F.)	Associated wet-bulb temperature (°F.)									
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16	T-18
55	2.1 28.9	3.3 35.2	1.7 38.1	0.6 39.0	0.1 39.1	0.02 39.1	..	..	..	..
57	2.3 20.3	3.6 25.8	1.8 29.8	0.8 31.0	0.2 31.3	0.03 31.3	0.0 31.3	..	..	..
59	2.1 12.4	2.9 18.0	1.7 20.9	0.8 22.1	0.3 22.5	0.04 22.6	0.01 22.6	0.0 22.6	..	..
61	1.2 6.7	1.9 10.3	1.5 13.0	0.8 14.2	0.3 14.6	0.07 14.7	0.01 14.7	..	..	..
63	0.4 3.1	1.1 5.5	1.0 7.2	0.7 8.4	0.3 8.8	0.1 8.9	0.02 8.9	0.0 8.9		
65	0.1 1.6	0.4 2.7	0.7 4.0	0.4 4.7	0.3 5.2	0.1 5.3	0.02 5.3	..	0.0 5.3	..
67	0.03 0.7	0.2 1.5	0.3 2.2	0.3 2.8	0.2 3.1	0.1 3.3	0.03 3.3	0.01 3.3	..	..
69	..	0.06 0.6	0.2 1.3	0.2 1.6	0.2 2.0	0.07 2.1	0.03 2.1	0.01 2.1	..	..
71	0.0 0.1	0.01 0.3	0.07 0.6	0.2 1.0	0.1 1.2	0.08 1.3	0.03 1.4	0.01 1.4	..	..
73	..	..	0.02 0.3	0.1 0.5	0.1 0.7	0.07 0.8	0.05 0.9	0.01 0.9	..	..
75	..	..	0.01 0.1	0.05 0.2	0.09 0.4	0.09 0.5	0.02 0.5	0.01 0.5	0.0 0.5	..
77	..	..	..	0.01 0.1	0.04 0.2	0.05 0.2	0.01 0.3	0.0 0.3	0.0 0.3	..
79	..	..	..	0.0 0.0	0.02 0.1	0.02 0.1	0.01 0.1	0.01 0.1	..	..
81	..	..	..	..	0.01 0.0	0.02 0.1	0.01 0.1	0.0 0.1	0.0 0.1	..
83	..	..	..	..	0.01 0.0	0.01 0.0	0.01 0.0	0.0 0.0	0.0 0.0	
85	..	..	..	..	..	0.0 0.0	0.0 0.0	0.01 0.0	0.0 0.0	0.0 0.0
87	..	..	..	..	..	..	..	0.0 0.0	..	..

TABLE XVIII

PERCENTAGE NUMBER OF HOURS WITH DRY-BULB

PEMBROKE DOCKDRY-BULB TEMP. ($^{\circ}$ F.)

	18.1 to 20.0	20.1 to 22.0	22.1 to 24.0	24.1 to 26.0	26.1 to 28.0	28.1 to 30.0	30.1 to 32.0	32.1 to 34.0	34.1 to 36.0	36.1 to 38.0	38.1 to 40.0	40.1 to 42.0	42.1 to 44.0	44.1 to 46.0	46.1 to 48.0	48.1 to 50.0
JANUARY	0.01	0.1	0.1	0.5	0.5	1.5	3.1	4.2	6.2	6.0	8.7	9.6	11.4	12.1	12.0	11.8
FEBRUARY	..	0.2	0.3	0.6	1.4	3.1	4.9	5.3	6.1	5.8	8.6	10.1	11.9	11.6	12.3	11.1
MARCH	..	0.03	0.1	0.1	0.4	1.0	2.1	2.5	4.5	6.4	8.3	9.1	10.6	12.8	15.0	15.2
APRIL	0.01	0.1	0.1	0.5	0.9	2.4	5.6	9.5	13.1	16.6	18.3
MAY	0.03	0.4	1.6	3.3	4.6	8.2	13.0
JUNE	0.01	0.3	1.3	3.3
JULY	0.05	0.3
AUGUST	0.04	0.3	0.7
SEPTEMBER	0.07	0.04	0.2	0.2	0.4	1.2	2.2
OCTOBER	0.07	0.4	0.5	1.0	1.4	2.6	4.4	7.0	9.5
NOVEMBER	0.2	0.3	0.8	1.5	2.8	3.6	4.0	5.5	8.4	13.3	15.9
DECEMBER	0.09	0.2	0.3	0.7	1.7	2.6	5.5	6.3	7.7	8.7	12.8	14.7	13.8
DECEMBER	0.0	0.1	0.1	0.4	0.7	1.6	2.9	3.6	5.0	5.8	7.8	9.1	10.6	12.2	13.1	12.3
JANUARY	0.0	0.1	0.1	0.4	0.7	1.6	2.9	3.6	5.0	5.8	7.8	9.1	10.6	12.2	13.1	12.3
FEBRUARY	0.0	0.1	0.1	0.4	0.7	1.6	2.9	3.6	5.0	5.8	7.8	9.1	10.6	12.2	13.1	12.3
MARCH	..	0.01	0.04	0.04	0.1	0.3	0.7	0.9	1.6	2.4	3.7	5.4	7.8	10.2	13.3	15.5
APRIL	..	0.01	0.04	0.04	0.1	0.3	0.7	0.9	1.6	2.4	3.7	5.4	7.8	10.2	13.3	15.5
MAY	..	0.01	0.04	0.04	0.1	0.3	0.7	0.9	1.6	2.4	3.7	5.4	7.8	10.2	13.3	15.5
JUNE	0.0	0.1	0.5	1.4
JULY	0.0	0.1	0.5	1.4
AUGUST	0.0	0.1	0.5	1.4
SEPTEMBER	0.05	0.1	0.3	0.7	1.1	1.6	1.8	2.7	4.5	7.0	9.2
OCTOBER	0.05	0.1	0.3	0.7	1.1	1.6	1.8	2.7	4.5	7.0	9.2
NOVEMBER	0.05	0.1	0.3	0.7	1.1	1.6	1.8	2.7	4.5	7.0	9.2
ANNUAL	0.0	0.03	0.05	0.1	0.2	0.5	0.9	1.2	1.8	2.3	3.3	4.1	5.3	6.7	8.5	9.5

TEMPERATURE WITHIN RANGES OF 2°F.

(Hourly observations 1946-1955)

50.1 to 52.0	52.1 to 54.0	54.1 to 56.0	56.1 to 58.0	58.1 to 60.0	60.1 to 62.0	62.1 to 64.0	64.1 to 66.0	66.1 to 68.0	68.1 to 70.0	70.1 to 72.0	72.1 to 74.0	74.1 to 76.0	76.1 to 78.0	78.1 to 80.0	80.1 to 82.0	82.1 to 84.0	84.1 to 86.0	86.1 to 88.0
9.7	2.4	0.03	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5.9	0.5	0.09	0.03	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6.3	2.3	1.4	0.9	0.4	0.3	0.1	0.1	0.08	..	..	..	..	..	..	..	..	..	..
13.9	6.6	4.9	2.3	1.5	0.8	0.4	0.3	0.2	0.04	..	..	..	..	..	..	..	..	..
15.8	15.2	11.4	9.0	6.1	3.6	2.7	1.8	1.4	0.7	0.4	0.4	0.2	0.09	..	..	..	..	..
6.9	14.6	17.5	18.0	14.0	9.2	6.0	3.3	2.0	1.3	1.0	0.6	0.3	0.2	0.1	0.07	..	..	..
1.6	4.2	10.0	17.0	20.2	16.5	10.4	6.6	4.1	2.7	2.2	1.9	1.3	0.4	0.2	0.2	0.1	0.07	0.01
1.4	2.9	8.9	15.4	18.8	18.1	13.1	7.8	3.9	3.1	1.6	1.3	1.1	0.5	0.4	0.3	0.3	0.1	..
4.3	7.6	13.2	20.2	20.4	15.0	7.5	3.6	2.1	0.9	0.4	0.2	0.2	..	..	..	..	..	..
11.6	14.3	13.9	15.9	9.9	4.3	2.2	0.7	0.1	0.05	..	..	..	..	..	..	..	..	..
14.9	12.6	10.2	5.0	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13.7	9.2	1.7	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9.3	4.2	0.6	0.07	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11.9	8.8	6.0	4.1	2.7	1.5	1.1	0.7	0.5	0.3	0.2	0.1	0.08	0.03	..	..	..	..	..
3.3	7.2	12.0	16.7	17.8	14.8	9.9	5.9	3.3	2.2	1.6	1.3	0.8	0.4	0.3	0.2	0.1	0.05	0.0
10.3	11.6	12.4	13.8	10.4	6.4	3.3	1.4	0.7	0.3	0.1	0.06	0.05	..	..	..	..	..	..
3.3	7.8	7.8	8.7	7.7	5.7	3.8	2.0	1.2	0.7	0.5	0.4	0.3	0.1	0.06	0.04	0.03	0.01	0.0

TABLE XIX

PERCENTAGE NUMBER OF HOURS WITH

PEMBROKE DOCKWET-BULB TEMP. ($^{\circ}$ F).

	18.1 to 20.0	20.1 to 22.0	22.1 to 24.0	24.1 to 26.0	26.1 to 28.0	28.1 to 30.0	30.1 to 32.0	32.1 to 34.0	34.1 to 36.0	36.1 to 38.0	38.1 to 40.0	40.1 to 42.0	42.1 to 44.0	44.1 to 46.0	46.1 to 48.0	48.1 to 50.0
JANUARY	0.09	0.1	0.5	0.4	1.1	2.5	4.2	6.3	7.2	9.2	10.1	10.5	11.4	9.4	11.0	8.7
FEBRUARY	0.07	0.1	0.6	1.2	2.5	4.6	6.2	6.3	7.1	8.3	11.1	11.1	11.1	10.1	9.4	7.6
MARCH	..	0.03	0.1	0.2	0.8	1.6	3.3	5.1	6.8	9.7	8.7	9.0	11.3	13.3	14.4	11.4
APRIL	..	..	..	..	..	0.01	0.1	0.2	0.8	2.5	5.6	12.1	15.1	17.4	17.3	14.7
MAY	..	..	..	..	..	..	..	..	0.05	0.3	1.6	4.2	5.7	9.6	13.2	17.4
JUNE	..	..	..	..	..	..	..	..	..	..	..	..	0.2	1.6	3.2	7.3
JULY	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	1.9
AUGUST	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.3	1.1
SEPTEMBER	..	..	..	..	..	..	..	..	..	0.1	0.01	0.2	0.4	1.1	2.8	6.0
OCTOBER	..	..	..	..	..	..	..	0.2	0.5	0.7	1.7	3.0	5.0	8.0	9.8	13.5
NOVEMBER	..	..	..	..	0.01	0.2	0.6	0.9	2.5	3.9	4.6	5.6	11.5	15.0	13.6	13.4
DECEMBER	..	..	0.03	0.08	0.3	0.6	1.4	2.6	5.2	7.0	8.1	10.3	12.3	13.3	11.6	11.2
DECEMBER	0.06	0.08	0.4	0.5	1.3	2.5	3.9	5.1	6.5	8.1	9.7	10.6	11.6	11.0	10.7	9.2
JANUARY																
FEBRUARY																
MARCH																
APRIL	..	0.01	0.04	0.06	0.2	0.5	1.2	1.7	2.5	4.1	5.4	8.3	10.7	13.6	14.8	14.5
MAY																
JUNE																
JULY	..	..	..	..	..	..	..	..	..	..	..	..	0.07	0.6	1.2	3.4
AUGUST																
SEPTEMBER																
OCTOBER	..	..	..	..	0.0	0.05	0.2	0.4	1.0	1.6	2.1	3.0	5.6	8.1	8.7	11.0
NOVEMBER																
ANNUAL	0.01	0.02	0.1	0.1	0.3	0.8	1.3	1.7	2.5	3.4	4.2	5.5	7.1	8.2	8.8	9.5

WET-BULB TEMPERATURES WITHIN RANGES OF 2° F.

(Hourly observations 1946-1955)

50.1 to 52.0	52.1 to 54.0	54.1 to 56.0	56.1 to 58.0	58.1 to 60.0	60.1 to 62.0	62.1 to 64.0	64.1 to 66.0	66.1 to 68.0	68.1 to 70.0	70.1 to 72.0	72.1 to 74.0	74.1 to 76.0
6.1	1.2	..	..	..	..	..	..	..	..	..	..	..
2.6	0.01	..	..	..	..	..	..	..	..	..	..	..
3.1	0.6	0.3	0.09	0.03	0.03	..	..	..	..	..	..	..
10.0	2.8	0.9	0.3	0.08	..	..	..	..	..	..	..	..
18.3	13.3	7.5	4.3	2.0	1.4	0.5	0.4	0.2	0.08	0.01	..	..
15.9	19.9	21.3	15.3	7.6	4.0	2.0	1.1	0.4	0.2	0.03		
6.0	13.1	18.3	19.2	18.7	11.9	5.0	2.9	1.9	0.4	0.3	0.1	0.07
3.1	10.0	17.7	21.3	18.4	13.5	6.2	4.4	2.1	0.9	0.6	0.2	0.03
9.3	14.6	18.3	18.7	14.5	9.4	3.1	1.0	0.3	0.1	..	..	..
14.2	12.2	11.7	10.3	6.6	1.9	0.6	0.08	..	..	..	..	..
9.6	9.0	6.4	3.0	0.06	..	..	..	..	..	..	..	..
11.0	3.9	1.0	0.03	..	..	..	..	..	..	..	..	..
6.7	1.7	0.3	0.01	..	..	..	..	..	..	..	..	..
10.7	5.6	3.1	1.5	0.6	0.5	0.2	0.1	0.06	0.02	0.0	..	..
8.2	14.3	19.1	18.6	15.0	9.8	4.3	2.9	1.6	0.5	0.3	0.1	0.03
11.1	11.9	12.1	10.7	7.1	3.7	1.2	0.3	0.09	0.04	..	..	..
9.3	8.4	8.6	7.8	5.7	3.6	1.5	0.9	0.4	0.1	0.08	0.02	0.01