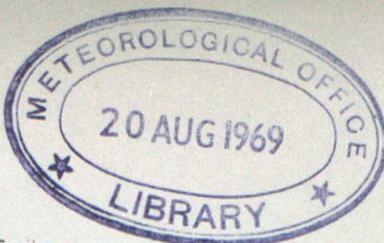


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METEOROLOGICAL OFFICE  
CLIMATOLOGICAL SERVICES (M.O.3)  
CLIMATOLOGICAL MEMORANDA, NO. 12

COMBINED DISTRIBUTION OF HOURLY VALUES OF DRY-BULB AND WET-BULB TEMPERATURES, DRIFFIELD, 1946-1955.

By J.G. COOTIS and H.J. GROOM.

INTRODUCTION

Hourly observations of dry-bulb and wet-bulb temperature (to one tenth of a degree Fahrenheit) made at Driffield 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-10, 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 corrected to one place of decimals except that frequencies less than 0.1 per cent are corrected 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 but not in the monthly tables, where a single occurrence (that is, at one hourly

observation) gives a frequency of 0.01 per cent approximately. The cumulative frequencies shown are merely the sums of the appropriate individual frequencies, corrected 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 0.7.

Again, for January (see Table 1), the percentage frequency of hours with dry-bulb temperature  $\geq 44.1^{\circ}\text{F}$ . and wet-bulb temperature  $\leq 40.1^{\circ}\text{F}$ . 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 16.2.

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  $(b-1)^{\circ}\text{F}$ . and  $(b+1)^{\circ}\text{F}$ ., 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  $(b-1)^{\circ}\text{F}$ . and  $(b+1)^{\circ}\text{F}$ . 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 Memo. No.11 relates to Renfrew (but without the ogives).

Other related memoranda now being prepared, and all dealing with combined distribution of hourly values of dry-bulb and wet-bulb temperatures, will be

numbered as follows:-

- |                   |                 |                |
|-------------------|-----------------|----------------|
| 13. Boscombe Down | 14. Manchester  | 15. Stornoway  |
| 16. Lympne        | 17. Elmaon      | 18. Aldergrove |
| 19. Pembroke Dock | 20. Milderhall. |                |

TABLE 1. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJANUARY

(hourly observations 1946-1955)

DRY-BULB TEMP. T (°F.)	Associated wet-bulb temperature (°F.)					
	T	T-2	T-4	T-6	T-8	T-10
11	0.01 99.8	..	..	..	..	..
13	0.01 99.8	..	..	..	..	..
15	0.04 99.8	..	..	..	..	..
17	0.08 99.7	..	..	..	..	..
19	0.2      0.03 99.6      99.7	..	..	..	..	..
21	0.3      0.08 99.3      99.4	..	..	..	..	..
23	0.8      0.1 98.9      99.1	..	..	..	..	..
25	1.2      0.4 97.7      98.1	..	..	..	..	..
27	1.5      0.7      0.03 95.8      96.5      96.5	..	..	..	..	..
29	2.5      1.3      0.03 92.7      94.3      94.3	..	..	..	..	..
31	3.9      3.1      0.3 86.9      90.2      90.5	..	..	..	..	..
33	7.0      5.1      0.2 76.9      83.0      83.2	..	..	..	..	..
35	6.0      6.7      0.9 61.8      69.9      70.9	..	..	..	..	..
37	5.7      6.5      1.4      0.03 47.8      55.8      57.3      57.3	..	..	..	..	..
39	4.4      6.1      1.5      0.08 34.5      42.0      43.6      43.7	..	..	..	..	..
41	3.0      4.1      1.3      0.07 24.8      30.1      31.5      31.6	..	..	..	..	..
43	2.4      3.2      1.1      0.08 17.8      21.8      23.0      23.1	..	..	..	..	..

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TABLE 1. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJANUARY

(hourly observations 1946-1955)

DRY-BULB TEMP. T (°F.)	Associated wet-bulb temperature (°F)					
	T	T-2	T-4	T-6	T-8	T-10
45	2.1 11.4	3.2 15.4	0.7 16.2	0.1 16.3	..	..
47	1.3 6.0	2.7 9.3	0.7 10.1	0.1 10.2	0.01 10.2	..
49	0.3 2.4	1.8 4.7	0.5 5.3	0.1 5.4	..	..
51	0.2 0.6	1.3 2.1	0.5 2.6	0.09 2.7	..	..
53	0.04 0.0	0.3 0.4	0.2 0.6	0.01 0.6	..	..
55	..	..	0.04 0.0	..	..	..
57	..	..	..	..	0.03 0.0	

TABLE II. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDFEBRUARY

(hourly observations 1946-1955)

DRY-BULB TEMP. T (°F.)	Associated wet-bulb temperature (°F.)					
	T	T-2	T-4	T-6	T-8	T-10
9	0.06 100.0	..	..	..	..	..
11	0.07 99.9	..	..	..	..	..
13	0.2 99.9	..	..	..	..	..
15	0.2 99.6	0.03 99.7	..	..	..	..
17	0.3 99.4	0.03 99.4	..	..	..	..
19	0.4 99.1	0.01 99.1	..	..	..	..
21	0.6 98.6	0.1 98.7	..	..	..	..
23	0.6 97.8	0.2 98.0	..	..	..	..
25	1.1 96.7	0.5 97.2	..	..	..	..
27	2.3 94.5	1.1 95.6	..	..	..	..
29	3.7 88.9	3.1 92.2	0.01 92.2	..	..	..
31	5.1 80.3	4.3 85.2	0.2 85.4	..	..	..
33	4.9 67.8	5.7 75.2	0.5 75.8	..	..	..
35	4.0 56.1	5.7 62.9	1.7 64.6	0.03 64.7	..	..
37	3.7 45.0	5.5 52.1	1.0 53.2	0.03 53.2	..	..
39	3.4 35.1	4.8 41.3	1.5 42.9	0.1 43.0	..	..
41	2.4 26.1	4.3 31.7	1.2 33.1	0.1 33.2	..	..

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TABLE II. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
DRIFFIELD FEBRUARY  
(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.).					
T (°F.)	T	T-2	T-4	T-6	T-8	T-10
43	2.3	3.6	1.1	0.2	0.01	
	18.9	23.7	29.0	25.2	25.2	..
45	1.5	3.2	0.9	0.2	0.01	
	11.7	16.6	17.8	18.0	18.0	..
47	0.5	2.5	1.3	0.3		
	6.6	10.2	11.9	12.2	..	..
49	0.4	1.6	0.8	0.3		0.01
	3.5	6.1	7.2	7.6	..	7.6
51	0.1	1.3	0.9	0.3	0.04	
	0.9	3.1	4.1	4.4	4.5	..
53	0.01	0.4	0.7	0.1	0.04	
	0.0	0.8	1.7	1.8	1.8	..
55		0.01	0.3	0.2		
	..	0.0	0.4	0.6	..	..
57	..	..	..	0.07	0.01	
				0.1	0.1	..

TABLE III. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDMARCH

(hourly observations 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
5	0.03 99.5	..	..	..	..	..	..	..
7	0.09 99.5	..	..	..	..	..	..	..
9	0.05 99.4	..	..	..	..	..	..	..
11	0.04 99.3	0.04 99.4	..	..	..	..	..	..
13	0.04 99.3	0.01 99.3	..	..	..	..	..	..
15	0.04 99.2	0.05 99.3	..	..	..	..	..	..
17	0.09 99.1	0.04 99.2	..	..	..	..	..	..
19	0.03 98.9	0.09 99.0	..	..	..	..	..	..
21	0.2 98.8	0.07 98.9	..	..	..	..	..	..
23	0.4 98.5	0.1 98.6	..	..	..	..	..	..
25	0.8 97.9	0.2 98.1	0.01 98.1	..	..	..	..	..
27	1.4 96.7	0.4 97.1	..	..	..	..	..	..
29	2.6 94.3	1.0 95.3	..	..	..	..	..	..
31	3.1 89.4	1.9 91.7	0.07 91.7	..	..	..	..	..
33	3.9 80.1	4.6 86.3	0.3 86.7	..	..	..	..	..
35	3.6 70.0	4.6 76.2	1.5 77.8	0.03 77.9	..	..	..	..
37	4.9 59.3	5.1 66.4	1.3 68.0	0.1 68.1	..	..	..	..
39	4.2 47.2	4.9 54.4	1.3 56.4	0.3 56.7	..	..	..	..

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TABLE III. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDMARCH

(hourly observations 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
41	4.0 36.4	4.6 43.0	1.6 45.3	0.6 46.0	0.05 46.0	..	..	..
43	2.6 26.7	3.8 32.4	1.4 34.4	0.7 35.1	0.04 35.2	..	..	..
45	1.4 18.2	2.9 24.1	1.3 26.0	0.5 26.6	0.03 26.6	0.01 26.6	..	..
47	0.8 11.4	2.7 16.8	1.7 19.7	0.5 20.4	0.07 20.5	..	..	..
49	0.5 7.2	1.5 10.6	1.5 13.3	0.9 14.5	0.1 14.7	0.01 14.7	..	..
51	0.3 3.4	1.5 6.7	1.0 8.6	0.9 9.8	0.3 10.1	0.07 10.2	..	..
53	..	0.6 3.1	1.0 4.9	0.6 5.8	0.3 6.1	0.03 6.1	..	..
55	..	0.2 1.2	0.7 2.5	0.6 3.3	0.2 3.6	0.05 3.6	..	..
57	..	..	0.3 1.0	0.4 1.6	0.2 1.8	0.04 1.9	..	..
59	..	..	0.03 0.3	0.2 0.7	0.1 0.9	0.04 0.9	0.01 0.9	..
61	..	..	..	0.09 0.3	0.1 0.5	0.07 0.5	..	..
63	..	..	..	0.01 0.0	0.04 0.2	0.07 0.3	0.01 0.3	..
65	..	..	..	..	..	0.08 0.1	0.04 0.1	0.01 0.2
67	..	..	..	..	..	..	0.03 0.0	..

TABLE IV. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDAPRIL

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.)							
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14
27	0.2 100.0	0.01 100.0	..	..	..	..	..	..
29	0.8 99.6	0.2 99.8	..	..	..	..	..	..
31	1.3 98.3	0.5 98.8	..	..	..	..	..	..
33	1.5 95.9	1.0 97.0	0.01 97.0	..	..	..	..	..
35	1.8 92.5	1.6 91.4	0.1 94.5	..	..	..	..	..
37	2.5 87.1	2.7 90.7	0.2 91.0	0.03 91.0	..	..	..	..
39	3.0 78.3	4.6 84.6	0.6 85.5	0.05 85.6	..	..	..	..
41	2.6 66.5	4.8 75.3	1.3 77.0	0.2 77.3	0.06 77.3	..	..	..
43	2.5 52.0	5.8 63.9	2.8 67.9	0.4 68.3	0.03 68.3	..	..	..
45	2.4 37.9	4.5 49.5	3.9 55.6	1.0 56.7	0.07 56.8	..	..	..
47	1.6 25.7	4.1 35.5	3.7 42.6	1.7 44.8	0.1 44.9	..	..	..
49	0.7 16.6	2.5 24.1	2.5 29.9	2.3 33.2	0.4 33.7	0.03 33.7	..	..
51	0.2 9.8	2.0 15.9	2.1 20.9	2.0 24.1	0.8 25.2	0.1 25.3	..	..
53	0.2 5.5	1.3 9.6	1.8 13.7	1.6 16.5	1.0 17.9	0.2 18.1	..	..
55	0.07 2.5	0.7 5.3	1.2 8.1	1.3 10.4	1.0 11.7	0.2 11.9	0.06 12.0	..
57	0.01 0.9	0.3 2.5	0.8 4.5	0.8 6.1	0.6 7.1	0.2 7.4	0.1 7.5	0.01 7.5
59	..	0.03 0.9	0.3 2.1	0.6 3.4	0.6 4.2	0.3 4.6	0.06 4.7	..

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TABLE IV. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFTFIELD

APRIL

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.)							
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14
61	..	..	0.07 0.9	0.4 1.8	0.4 2.5	0.2 2.7	0.06 2.8	0.01 2.8
63	..	..	0.07 0.4	0.2 0.8	0.2 1.3	0.2 1.6	..	0.01 1.6
65	..	..	..	0.03 0.3	0.1 0.6	0.2 0.9	0.07 0.9	0.01 1.0
67	..	..	..	0.01 0.1	0.03 0.3	0.06 0.4	0.1 0.5	0.01 0.5
69	..	..	..	..	0.01 0.1	0.07 0.3	0.06 0.3	..
71	..	..	..	..	..	0.04 0.1	0.03 0.2	0.03 0.2
73	..	..	..	..	..	0.04 0.1	..	0.04 0.1
75	..	..	..	..	..	..	0.01 0.0	..
77	..	..	..	..	..	..	..	0.01 0.0

TABLE V. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
DRIFTFIELD MAY

(hourly observations 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
27	0.01 99.7	..	..	..	..	..	..	..	..
29	0.1 99.7	0.03 99.7	..	..	..	..	..	..	..
31	0.3 99.5	0.09 99.6	..	..	..	..	..	..	..
33	0.4 99.0	0.2 99.2	..	..	..	..	..	..	..
35	0.8 98.3	0.3 98.6	0.01 98.6	..	..	..	..	..	..
37	0.9 96.8	0.7 97.5	0.03 97.5	..	..	..	..	..	..
39	1.1 94.7	1.0 95.9	0.01 95.9	..	..	..	..	..	..
41	2.3 90.6	2.0 93.6	0.2 93.8	..	..	..	..	..	..
43	3.2 81.7	3.6 88.3	0.7 89.3	..	..	..	..	..	..
45	3.4 68.7	5.8 78.5	1.7 81.5	0.2 81.8	..	..	..	..	..
47	3.8 54.7	5.8 65.3	2.5 69.3	1.0 70.6	0.1 70.7	..	..	..	..
49	2.7 39.2	5.8 50.9	2.8 55.7	1.1 57.1	0.3 57.5	..	..	..	..
51	1.5 26.4	4.6 36.5	3.1 42.4	1.3 44.4	0.3 44.7	0.01 44.8	..	..	..
53	0.5 16.7	2.9 24.9	2.9 30.4	1.8 33.2	0.4 33.9	0.07 33.9	..	..	..
55	0.2 10.1	1.8 16.1	2.2 21.5	1.6 24.1	0.5 25.1	0.2 25.4	0.01 25.4	..	..
57	0.2 5.5	0.8 9.9	1.6 14.1	1.9 17.3	0.5 18.3	0.4 18.8	0.09 18.9	..	..

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TABLE V. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDMAY

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.)								
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16
59	0.03 3.0	0.4 5.3	1.3 8.9	1.2 11.5	0.9 12.8	0.3 13.3	0.04 13.4	..	..
61	0.07 1.7	0.2 2.9	0.6 4.9	1.0 7.2	0.8 8.6	0.3 9.0	0.2 9.2	0.01 9.2	..
63	0.01 0.8	0.09 1.6	0.4 2.7	0.6 4.0	0.8 5.3	0.4 5.9	0.03 6.0	0.01 6.0	..
65	..	0.01 0.8	0.2 1.5	0.3 2.2	0.5 2.9	0.4 3.4	0.2 3.7	0.01 3.7	0.03 3.7
67	..	..	0.05 0.7	0.2 1.3	0.2 1.7	0.2 1.9	0.1 2.0	0.01 2.0	..
69	..	..	0.03 0.3	0.1 0.7	0.2 1.0	0.07 1.2	0.04 1.3	..	0.01 1.3
71	..	..	..	0.09 0.3	0.1 0.6	0.09 0.7	0.07 0.8	0.01 0.8	..
73	..	..	..	0.03 0.1	0.08 0.2	0.1 0.4	0.05 0.4	0.03 0.5	0.01 0.5
75	..	..	..	..	0.01 0.0	0.07 0.1	0.04 0.2	..	..
77	..	..	..	..	..	0.01 0.0	0.03 0.0	0.01 0.1	..

TABLE VI. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJUNE

(hourly observations 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-20*
35	0.06 99.8	0.01 99.8	..	..	..	..	..	..	..	..
37	0.2 99.6	0.1 99.7	..	..	..	..	..	..	..	..
39	0.4 99.2	0.2 99.4	..	..	..	..	..	..	..	..
41	0.4 98.6	0.2 98.8	..	..	..	..	..	..	..	..
43	0.9 97.3	0.8 98.2	0.04 98.2	..	..	..	..	..	..	..
45	1.6 94.8	1.3 96.4	0.03 96.5	..	..	..	..	..	..	..
47	2.5 88.6	3.0 93.2	0.2 93.5	0.1 93.6	..	..	..	..	..	..
49	3.0 77.2	5.2 86.1	1.0 87.7	0.08 87.8	..	..	..	..	..	..
51	2.7 62.5	5.4 74.2	2.3 77.9	0.5 78.5	0.01 78.5	..	..	..	..	..
53	2.4 48.4	4.4 59.8	3.3 66.1	1.0 67.5	0.1 67.6	..	..	..	..	..
55	1.9 35.1	4.3 46.0	3.0 53.0	1.9 56.0	0.3 56.4	..	..	..	..	..
57	1.1 22.8	3.9 33.2	2.6 39.8	2.0 43.8	0.7 44.9	0.08 45.0	..	..	..	..
59	0.6 14.4	2.4 21.7	2.5 28.2	1.9 32.2	1.2 34.2	0.2 34.6	..	..	..	..
61	0.2 8.6	1.6 13.8	2.3 18.7	1.9 22.7	1.5 24.8	0.6 25.6	0.08 25.8	..	..	..
63	0.03 4.9	0.8 8.4	1.6 12.0	1.3 14.6	1.2 16.7	0.4 17.3	0.2 17.5	0.06 17.6	..	..
65	0.08 2.7	0.2 4.8	1.0 7.5	1.2 9.6	0.8 10.9	0.7 11.8	0.2 12.0	0.04 12.0	0.01 12.0	..
67	0.06 1.3	0.1 2.6	0.5 4.6	1.0 6.3	0.6 7.1	0.4 7.6	0.2 7.8	0.01 7.8	..	..

(continued on next page)

TABLE VI. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJUNE

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.)										
T (°F.)	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16	T-18	T-20
69	..	0.04	0.1	0.7	0.5	0.2	0.06	..	..	..	..
	..	1.2	2.5	3.9	4.6	4.9	4.9	..	..	..	..
71	..	..	0.1	0.3	0.4	0.1	0.06	..	..	..	..
	..	..	1.2	2.3	3.1	3.3	3.3	..	..	..	..
73	..	..	0.03	0.1	0.3	0.2	0.07	..	..	..	..
	..	..	0.5	1.1	1.9	2.3	2.4	..	..	..	..
75	..	..	..	0.1	0.2	0.3	0.07	0.03	..	..	..
	..	..	..	0.4	0.9	1.0	1.6	1.7	..	..	..
77	..	..	..	0.03	0.1	0.2	0.1	0.06	..	..	..
	..	..	..	0.0	0.3	0.7	0.9	1.0	..	..	..
79	..	..	..	..	..	0.1	0.07	0.06	..	..	..
	..	..	..	..	..	0.2	0.3	0.5	..	..	..
81	..	..	..	..	..	..	0.04	0.03	0.06	..	..
	..	..	..	..	..	..	0.1	0.1	0.2	..	..
83	..	..	..	..	..	..	..	0.06	..	..	..
	..	..	..	..	..	..	..	0.1	..	..	..
85	..	..	..	..	..	..	..	..	0.01	0.01	0.03
	..	..	..	..	..	..	..	..	0.0	0.0	0.1

TABLE VII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJULY

(hourly observations 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	T-20
37	0.03 99.9	..	..	..	..	..	..	..	..	..	..
39	0.08 99.9	..	..	..	..	..	..	..	..	..	..
41	0.1 99.7	0.04 99.8	..	..	..	..	..	..	..	..	..
43	0.3 99.6	0.05 99.6	..	..	..	..	..	..	..	..	..
45	0.8 98.9	0.3 99.3	..	..	..	..	..	..	..	..	..
47	1.2 97.2	0.8 98.1	..	98.1	..	..	..	..	..	..	..
49	1.4 94.2	1.4 96.0	0.07 96.1	..	..	..	..	..	..	..	..
51	2.1 87.3	3.7 92.8	0.3 93.2	0.01 93.2	..	..	..	..	..	..	..
53	3.1 75.9	5.0 85.2	1.3 87.0	0.07 87.1	..	..	..	..	..	..	..
55	2.8 60.2	6.0 72.8	2.2 77.1	0.4 77.6	0.01 77.6	..	..	..	..	..	..
57	2.6 44.9	4.7 57.4	2.9 64.0	1.0 66.1	0.1 66.2	..	..	..	..	..	..
59	2.1 30.6	4.0 42.3	2.9 50.1	1.9 53.8	0.7 54.9	0.04 54.9	..	..	..	..	..
61	1.0 19.7	3.3 28.5	2.7 36.2	2.3 41.1	1.2 42.9	0.3 43.3	..	..	..	..	..
63	0.6 11.4	1.7 18.7	1.8 24.2	2.2 29.2	1.4 31.8	0.5 32.4	0.03 32.5	0.01 32.5	..	..	..
65	0.2 5.3	1.1 10.8	2.1 16.4	1.9 20.1	1.5 22.9	0.9 24.1	0.07 24.2	0.04 24.2	..	..	..
67	0.01 2.3	0.3 5.1	1.0 9.5	1.7 13.0	0.9 14.8	0.8 16.1	0.2 16.4	0.03 16.4	..	..	..
69	0.01 0.6	0.2 2.3	0.7 4.8	1.3 8.2	0.8 10.0	0.6 10.9	0.3 11.3	0.1 11.5	..	..	..

(continued on next page)

TABLE VII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJULY

(hourly observations 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	T-20
71	..	0.03 0.6	0.4 2.1	0.7 3.9	1.0 6.0	0.6 7.0	0.3 7.3	0.09 7.4	0.03 7.5	..	..
73	..	..	0.1 0.6	0.2 1.6	0.6 2.8	0.7 3.9	0.3 4.2	0.04 4.3	0.03 4.3	0.01 4.3	..
75	..	..	0.01 0.1	0.2 0.5	0.4 1.3	0.3 1.9	0.3 2.3	0.03 2.3	0.01 2.3	..	..
77	..	..	..	0.08 0.1	0.09 0.3	0.3 0.7	0.2 1.0	0.1 1.1	0.01 1.1	..	..
79	..	..	..	0.01 0.0	..	0.07 0.1	0.1 0.2	0.04 0.3	..	0.01 0.3	0.01 0.3
81	..	..	..	..	..	..	0.01 0.0	0.01 0.1	0.01 0.1	0.01 0.1	..

TABLE VIII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDAUGUST

(hourly observations 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
39	0.1 100.0	0.01 100.0	..	..	..	..	..	..	..
41	0.4 99.9	0.04 99.9	..	..	..	..	..	..	..
43	0.8 99.3	0.1 99.5	..	..	..	..	..	..	..
45	0.8 98.3	0.3 98.5	..	..	..	..	..	..	..
47	1.5 96.8	0.6 97.5	..	..	..	..	..	..	..
49	2.2 93.9	1.3 95.3	0.01 95.3	..	..	..	..	..	..
51	2.6 88.6	2.7 91.7	0.1 91.8	..	..	..	..	..	..
53	3.2 78.9	4.5 86.0	0.3 86.4	..	..	..	..	..	..
55	4.2 64.9	5.6 75.7	1.4 78.3	0.1 78.4	..	..	..	..	..
57	4.1 45.9	6.4 60.7	2.4 65.9	0.8 67.1	0.04 67.1	..	..	..	..
59	2.9 29.0	4.8 41.7	3.4 50.2	1.7 53.0	0.3 53.4	..	..	..	..
61	1.5 17.3	3.4 26.1	3.0 34.1	2.0 39.1	0.7 40.2	0.05 40.3	..	..	..
63	0.5 7.8	2.1 15.8	1.9 21.2	2.0 26.1	1.8 29.2	0.3 29.6	0.05 29.7	..	..
65	0.1 2.6	0.9 7.3	1.7 13.2	1.6 16.7	1.8 19.7	1.1 20.9	0.08 21.0	0.01 21.0	..
67	0.05 0.9	0.2 2.5	1.0 6.3	1.7 10.5	1.1 12.4	0.8 13.5	0.1 13.7	0.01 13.7	..
69	..	0.01 0.8	0.3 2.2	1.0 5.0	1.3 7.5	0.5 8.4	0.3 8.7	0.05 8.7	..

(continued on next page)

TABLE VIII. FREQUENCY DISTRIBUTION OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDAUGUST

(hourly observations 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
71	..	0.01 0.2	0.1 0.8	0.5 1.9	0.9 3.7	0.7 4.9	0.2 5.3	0.03 5.3	..
73	..	..	0.01 0.2	0.2 0.7	0.2 1.3	0.6 2.2	0.3 2.7	0.09 2.9	..
75	..	..	..	0.01 0.2	0.1 0.5	0.3 0.9	0.2 1.2	0.2 1.4	0.04 1.5
77	..	..	..	..	0.01 0.1	0.2 0.4	0.1 0.5	0.1 0.6	0.01 0.6
79	..	..	..	..	..	0.01 0.1	0.04 0.2	..	..
81	..	..	..	..	..	..	0.05 0.1	..	..
83	..	..	..	..	..	..	..	..	..
85	..	..	..	..	..	..	..	..	0.03 0.1
87	..	..	..	..	..	..	..	..	0.04 0.1
89	..	..	..	..	..	..	..	..	0.01 0.0

TABLE IX. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDSEPTEMBER

(hourly observations 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
31	0.01 99.9	..	..	..	..	..	..	..	..
33	0.08 99.8	0.01 99.8	..	..	..	..	..	..	..
35	0.4 99.7	0.06 99.7	..	..	..	..	..	..	..
37	0.5 99.1	0.2 99.3	..	..	..	..	..	..	..
39	0.6 98.2	0.4 98.6	..	..	..	..	..	..	..
41	0.8 96.9	0.5 97.6	0.03 97.6	..	..	..	..	..	..
43	1.2 95.0	0.9 96.1	0.1 96.3	..	..	..	..	..	..
45	1.9 91.7	1.3 93.8	0.2 94.1	0.01 94.1	..	..	..	..	..
47	2.3 86.0	2.8 89.8	0.4 90.6	0.06 90.7	..	..	..	..	..
49	2.8 77.6	4.1 83.7	0.6 84.7	0.3 85.1	..	..	..	..	..
51	2.9 66.1	4.1 74.8	1.4 76.8	0.2 77.2	0.07 77.3	..	..	..	..
53	2.4 52.6	5.3 63.2	2.7 67.8	0.3 68.4	0.2 68.6	0.01 68.6	..	..	..
55	2.6 39.5	4.8 50.2	2.6 55.5	1.2 57.4	0.2 57.7	0.04 57.7	..	..	..
57	2.4 26.4	4.5 36.9	2.9 42.8	1.7 45.5	0.6 46.2	0.03 46.3	..	..	..
59	1.6 15.3	3.3 24.0	2.5 30.0	1.9 33.0	0.8 34.0	0.1 34.1	..	..	..
61	0.7 8.0	2.1 13.7	2.3 19.1	1.8 22.6	0.9 23.7	0.2 23.9	..	..	..
63	0.2 3.3	1.3 7.3	1.4 10.9	1.7 14.0	1.2 15.7	0.2 15.9	..	..	..

(continued on next page)

TABLE IX. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFLDSEPTEMBER

(hourly observations 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
65	..	0.6 3.1	1.1 5.8	1.0 8.0	0.9 9.4	0.4 9.9	0.04 9.9	..	..
67	..	0.2 1.1	0.6 2.5	0.6 4.1	0.7 5.3	0.3 5.8	0.07 5.9	..	..
69	..	0.03 0.4	0.2 0.9	0.4 1.7	0.6 2.7	0.3 3.2	0.2 3.4	..	..
71	..	..	0.04 0.4	0.2 0.7	0.3 1.1	0.3 1.5	0.2 1.7	..	..
73	..	..	0.03 0.1	0.1 0.3	0.08 0.5	0.08 0.6	0.04 0.6	0.03 0.7	0.01 0.7
75	..	..	..	0.03 0.1	0.04 0.2	0.04 0.3	0.03 0.3	..	..
77	..	..	..	..	..	0.06 0.1	..	..	..
79	..	..	..	..	..	0.01 0.1	..	..	..
81	..	..	..	..	..	..	0.07 0.1	..	..
83	..	..	..	..	..	..	..	0.01 0.0	..

TABLE X. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELD

OCTOBER

(hourly observations 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
23	0.01 99.9	..	..	..	..	..	..	..	..	..
25	0.2 99.8	0.05 99.9	..	..	..	..	..	..	..	..
27	0.2 99.6	0.07 99.6	..	..	..	..	..	..	..	..
29	0.4 99.2	0.2 99.4	..	..	..	..	..	..	..	..
31	0.7 98.3	0.4 98.8	..	..	..	..	..	..	..	..
33	1.0 96.9	0.7 97.6	0.03 97.7	..	..	..	..	..	..	..
35	1.3 95.0	0.7 95.9	0.07 95.9	..	..	..	..	..	..	..
37	1.8 92.3	1.2 93.7	0.1 93.9	0.01 93.9	..	..	..	..	..	..
39	2.0 89.0	1.2 90.5	0.1 90.7	0.03 90.7	..	..	..	..	..	..
41	1.9 84.4	1.6 87.0	0.2 87.3	0.07 87.4	..	..	..	..	..	..
43	2.6 77.9	3.1 82.5	0.5 83.5	0.03 83.6	..	0.01 83.7	..	..	..	..
45	2.7 69.1	3.9 75.3	1.0 76.8	0.4 77.3	0.07 77.4	..	..	..	..	..
47	3.4 57.0	5.6 66.4	1.6 68.7	0.4 69.2	0.1 69.3	0.03 69.3	..	..	..	..
49	3.3 43.0	6.5 53.6	3.0 57.4	0.7 58.1	0.08 58.2	0.01 58.2	..	..	..	..
51	2.9 31.3	4.8 39.7	2.7 43.8	0.7 44.6	0.01 44.6	..	0.01 44.6	..	..	..
53	2.2 22.2	3.7 28.4	1.8 32.0	1.2 33.4	0.1 33.5	..	..	..	..	..
55	2.2 15.0	3.0 20.0	1.5 22.5	1.5 24.3	0.2 24.5	..	..	..	..	..

(continued on next page)

TABLE X. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDOCTOBER

(hourly observations 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
57	1.2 8.3	2.7 12.8	1.3 14.8	0.8 15.8	0.2 16.1	0.01 16.1	..	..	..	..
59	0.5 3.9	1.6 7.1	1.3 8.9	0.5 9.6	0.2 9.8	0.04 9.9	..	..	..	..
61	0.07 1.4	0.9 3.4	1.1 4.9	0.3 5.5	0.08 5.7	..	0.03 5.7	..	..	..
63	0.07 0.2	0.4 1.4	0.7 2.0	0.3 2.9	0.2 3.1	0.07 3.3	..	..	..	..
65	..	0.04 0.1	0.5 0.9	0.3 1.3	0.09 1.4	0.04 1.5	0.01 1.5	..	..	..
67	..	..	0.01 0.1	0.2 0.4	0.05 0.4	0.03 0.5	..	0.04 0.5	0.01 0.5	..
69	..	..	..	0.04 0.1	0.07 0.1	0.03 0.2	0.01 0.2	0.01 0.2	..	0.01 0.2
71	..	..	..	..	0.01 0.0	0.03 0.0	..	..	..	..

TABLE XI. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDNOVEMBER

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature ( $^{\circ}$ F.)				
	T	T-2	T-4	T-6	T-8
21	0.07 100.3	..	..	..	..
23	0.3 100.2	0.03 100.3	..	..	..
25	0.4 99.9	0.07 99.9	..	..	..
27	0.7 99.3	0.2 99.5	..	..	..
29	0.8 98.1	0.4 98.5	..	..	..
31	2.1 96.6	0.7 97.3	..	..	..
33	2.2 92.8	1.4 94.5	0.07 94.5	..	..
35	3.0 88.3	2.0 90.6	0.2 90.9	..	..
37	3.2 81.7	3.1 85.3	0.3 85.6	0.06 85.7	..
39	3.2 73.9	4.1 78.5	0.4 79.0	0.01 79.0	0.01 79.0
41	4.1 64.5	4.7 70.7	0.5 71.2	0.06 71.3	..
43	4.6 52.1	5.7 60.4	1.4 61.9	0.06 61.9	..
45	5.1 38.5	6.6 47.5	2.2 50.1	0.1 50.2	..
47	3.6 24.4	6.8 33.4	2.1 35.9	0.3 36.2	..
49	2.7 15.7	3.7 20.8	2.0 23.0	0.3 23.3	0.03 23.4

(continued on next page)

TABLE XI. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDNOVEMBER

(hourly observations 1946-1955)

DRY-BULB TEMP. T (°F.)	Associated wet-bulb temperature (°F.)				
	T	T-2	T-4	T-6	T-8
51	2.7 8.6	3.7 13.0	1.2 14.4	0.2 14.6	0.01 14.7
53	0.8 3.7	1.7 5.9	0.7 6.6	0.2 6.8	0.01 6.8
55	0.4 1.7	1.0 2.9	0.4 3.4	0.07 3.4	..
57	0.1 0.5	0.6 1.3	0.2 1.5	0.01 1.6	..
59	..	0.3 0.4	0.2 0.6	0.01 0.7	..
61	..	0.01 0.0	0.1 0.1	..	..
63	..	..	..	0.03 0.0	..

TABLE XIII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDDECEMBER

(hourly observations 1946-1955)

DRY-BULB TEMP. T (°F.)	Associated wet-bulb temperature (°F.)				
	T	T-2	T-4	T-6	T-8
15	0.01 99.9	..	..	..	..
17	0.03 99.9	..	..	..	..
19	0.2 99.8	0.04 99.9	..	..	..
21	0.4 99.6	0.05 99.6	..	..	..
23	0.5 99.1	0.1 99.2	..	..	..
25	0.9 98.4	0.2 98.6	..	..	..
27	1.7 96.9	0.6 97.0	..	..	..
29	2.4 94.1	1.1 95.2	..	..	..
31	3.7 90.2	1.4 91.7	0.01 91.7	..	..
33	5.3 83.2	2.8 86.5	0.08 86.6	..	..
35	4.4 72.8	4.5 77.9	0.4 78.4	0.03 78.4	..
37	4.8 61.8	5.5 68.4	0.6 69.0	0.03 69.1	0.01 69.1
39	3.9 49.1	6.6 57.0	1.0 58.1	0.03 58.1	..
41	3.4 38.1	5.8 45.2	1.3 46.5	0.08 46.6	..
43	3.9 28.2	5.3 34.7	1.2 36.0	0.04 36.0	..
45	2.8 18.5	4.7 24.3	1.1 25.5	0.1 25.6	..
47	2.6 11.3	3.5 15.7	1.0 16.8	0.07 16.9	..

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TABLE XIII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDDECEMBER

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.)				
	T	T-2	T-4	T-6	T-8
49	1.1 5.5	2.5 8.7	0.8 9.6	0.1 9.7	..
51	0.4 2.2	1.7 4.4	0.7 5.1	0.07 5.2	..
53	0.08 0.8	0.8 1.8	0.5 2.3	0.03 2.3	0.01 2.3
55	0.08 0.3	0.3 0.7	0.2 0.9	0.03 0.9	..
57	..	0.2 0.2	0.1 0.3	..	..
59	..	..	0.01 0.0	..	..

TABLE XIII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
 DRIFFIELD DECEMBER-JANUARY-FEBRUARY  
 (hourly observations 1946-1955)

DRY-BULB TEMP. T (°F.)	Associated wet-bulb temperature (°F.)					
	T	T-2	T-4	T-6	T-8	T-10
9	0.02 99.9	..	..	..	..	..
11	0.03 99.9	..	..	..	..	..
13	0.07 99.9	..	..	..	..	..
15	0.08 99.8	0.01 99.8	..	..	..	..
17	0.1 99.7	0.01 99.7	..	..	..	..
19	0.3 99.6	0.03 99.6	..	..	..	..
21	0.4 99.2	0.08 99.3	..	..	..	..
23	0.6 98.7	0.1 98.8	..	..	..	..
25	1.1 97.7	0.4 98.1	..	..	..	..
27	1.8 95.8	0.8 96.6	0.01 96.6	..	..	..
29	2.8 92.0	1.8 94.0	0.01 94.0	..	..	..
31	4.2 86.1	2.9 89.2	0.2 89.4	..	..	..
33	5.7 76.3	4.5 81.9	0.2 82.1	..	..	..
35	4.9 63.9	5.7 70.6	1.0 71.7	0.02 71.7	..	..
37	4.8 51.8	5.8 58.9	1.0 60.0	0.03 60.1	0.0 60.1	..
39	3.9 39.7	5.9 47.0	1.3 48.3	0.07 48.4	..	..

(continued on next page)

TABLE XIII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDDECEMBER-JANUARY-FEBRUARY

(hourly observations 1946-1955)

DRY-BULB TEMP. T (°F.)	Associated wet-bulb temperature (°F.)					
	T	T-2	T-4	T-6	T-8	T-10
41	2.9 29.7	4.8 35.8	1.3 37.2	0.09 37.3	..	0.0 37.3
43	2.9 21.8	4.0 26.8	1.2 28.1	0.1 28.2	0.0 28.2	..
45	2.1 13.9	3.7 18.9	0.9 19.9	0.1 20.0	0.0 20.0	..
47	1.5 8.1	2.9 11.9	1.0 13.1	0.1 13.2	0.0 13.2	..
49	0.6 3.9	2.0 6.6	0.7 7.5	0.2 7.7	0.0 ..	0.0 7.7
51	0.2 1.2	1.5 3.3	0.7 4.0	0.1 4.1	0.01 4.2	..
53	0.05 0.3	0.5 1.0	0.5 1.6	0.06 1.6	0.02 1.7	..
55	0.03 0.1	0.09 0.2	0.2 0.4	0.07 0.5	..	..
57	..	0.06 0.1	0.04 0.1	0.02 0.1	0.01 0.1	..
59	..	..	0.0 0.0	..	..	..

TABLE XIV. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDMARCH-APRIL-MAY

(hourly observations 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
5	0.01 99.9	..	..	..	..	..	..	..	..
7	0.03 99.9	..	..	..	..	..	..	..	..
9	0.02 99.9	..	..	..	..	..	..	..	..
11	0.01 0.01 99.9 99.9	..	..	..	..	..	..	..	..
13	0.01 0.0 99.9 99.9	..	..	..	..	..	..	..	..
15	0.01 0.02 99.8 99.9	..	..	..	..	..	..	..	..
17	0.03 0.01 99.8 99.8	..	..	..	..	..	..	..	..
19	0.01 0.03 99.8 99.8	..	..	..	..	..	..	..	..
21	0.08 0.02 99.7 99.7	..	..	..	..	..	..	..	..
23	0.1 0.04 99.6 99.7	..	..	..	..	..	..	..	..
25	0.3 0.06 0.0 99.5 99.5 99.5	..	..	..	..	..	..	..	..
27	0.5 0.1 99.1 99.1	..	..	..	..	..	..	..	..
29	1.2 0.4 98.1 98.5	..	..	..	..	..	..	..	..
31	1.6 0.8 0.02 96.0 96.9 96.9	..	..	..	..	..	..	..	..
33	1.9 2.0 0.1 90.9 94.4 94.5	..	..	..	..	..	..	..	..
35	2.1 2.2 0.5 0.01 87.1 90.0 90.5 90.5	..	..	..	..	..	..	..	..

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TABLE XIV. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDMARCH-APRIL-MAY

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.)								
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16
37	2.8 81.2	2.9 85.0	0.5 85.7	0.05 85.7	..	..	..	..	..
39	2.8 73.5	3.5 78.4	0.6 79.3	0.1 79.5	..	..	..	..	..
41	3.0 64.6	3.8 70.7	1.0 72.1	0.3 72.4	0.04 72.5	..	..	..	..
43	2.8 53.5	4.3 61.6	1.6 63.9	0.4 64.3	0.02 64.3	..	..	..	..
45	2.4 41.7	4.4 50.7	2.3 54.5	0.6 55.2	0.03 55.2	0.0 55.2	..	..	..
47	2.0 30.6	4.2 39.3	2.6 43.9	1.1 45.4	0.1 45.5	..	..	..	..
49	1.3 21.1	3.3 28.6	2.3 33.1	1.4 35.1	0.3 35.5	0.01 35.5	..	..	..
51	0.7 13.3	2.7 19.8	2.1 24.0	1.4 26.2	0.5 26.8	0.06 26.9	..	..	..
53	0.3 7.9	1.6 12.6	1.9 16.4	1.3 18.5	0.6 19.3	0.1 19.4	..	..	..
55	0.1 4.4	0.9 7.6	1.4 10.7	1.2 12.6	0.6 13.4	0.1 13.6	0.02 13.6	..	..
57	0.09 2.2	0.4 4.3	0.9 6.6	1.0 8.3	0.4 0.0	0.2 9.2	0.07 9.3	0.0 9.3	..
59	0.01 1.1	0.1 2.1	0.5 3.8	0.7 5.2	0.5 5.9	0.2 6.2	0.04 6.2	..	..
61	0.02 0.6	0.05 1.1	0.2 2.0	0.5 3.2	0.4 3.9	0.2 4.1	0.07 4.2	0.01 4.2	..
63	0.0 0.3	0.03 0.6	0.2 1.1	0.3 1.7	0.4 2.4	0.2 2.7	0.01 2.7	0.01 2.7	..
65	..	0.0 0.3	0.05 0.6	0.1 0.8	0.2 1.2	0.2 1.5	0.09 1.6	0.01 1.6	0.01 1.6
67	..	..	0.02 0.3	0.09 0.5	0.06 0.7	0.08 0.8	0.1 0.9	0.01 0.9	..

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TABLE XIV. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELD

MARCH-APRIL-MAY  
 (hourly observations 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
69	..	..	0.01 0.1	0.04 0.3	0.07 0.4	0.05 0.5	0.03 0.6	..	0.0 0.6
71	..	..	..	0.03 0.1	0.04 0.2	0.05 0.3	0.03 0.3	0.01 0.4	..
73	..	..	..	0.01 0.0	0.03 0.1	0.06 0.2	0.02 0.2	0.02 0.2	0.0 0.2
75	..	..	..	..	0.0 0.0	0.02 0.0	0.02 0.1	..	..
77	..	..	..	..	..	0.0 0.0	0.01 0.0	0.01 0.0	..

TABLE XV. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJUNE-JULY-AUGUST

(hourly observations 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	T-20
35	0.02 100.0	0.0 100.0	..	..	..	..	..	..	..	..	..
37	0.09 99.9	0.04 100.0	..	..	..	..	..	..	..	..	..
39	0.2 99.8	0.07 99.8	..	..	..	..	..	..	..	..	..
41	0.3 99.5	0.1 99.6	..	..	..	..	..	..	..	..	..
43	0.7 98.8	0.3 99.1	0.01 99.2	..	..	..	..	..	..	..	..
45	1.1 97.4	0.6 98.1	0.01 98.1	..	..	..	..	..	..	..	..
47	1.7 94.3	1.4 96.3	0.07 96.4	0.05 96.4	..	..	..	..	..	..	..
49	2.2 88.6	2.6 92.7	0.3 93.2	0.03 93.2	..	..	..	..	..	..	..
51	2.5 79.7	3.9 86.4	0.9 87.9	0.2 88.1	0.0 88.1	..	..	..	..	..	..
53	2.9 67.9	4.6 77.2	1.6 80.0	0.4 80.5	0.04 80.6	..	..	..	..	..	..
55	3.0 53.7	5.3 65.1	2.2 69.7	0.8 70.9	0.1 71.0	..	..	..	..	..	..
57	2.6 38.1	5.0 50.7	2.6 56.7	1.3 59.2	0.3 59.6	0.03 59.7	..	..	..	..	..
59	1.9 24.9	3.7 35.5	2.9 43.1	1.8 46.5	0.7 47.7	0.09 47.8	..	..	..	..	..
61	0.9 15.3	2.8 23.0	2.7 29.9	2.1 34.6	1.1 36.3	0.3 36.7	0.03 36.7	..	..	..	..
63	0.4 8.2	1.5 14.4	1.7 19.3	1.8 23.5	1.5 26.1	0.4 26.7	0.1 26.8	0.02 26.8	..	..	..
65	0.1 3.6	0.7 7.8	1.6 12.5	1.6 15.7	1.4 18.1	0.9 19.2	0.1 19.3	0.03 19.4	0.0 19.4	..	..
67	0.04 1.5	0.2 3.5	0.9 7.0	1.5 10.1	0.9 11.7	0.7 12.7	0.2 12.9	0.02 12.9	..	..	..

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TABLE XV. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDJUNE-JULY-AUGUST

(hourly observations 1946-1955)

DRY-BULB TEMP.	Associated wet-bulb temperature (°F.)										
	T	T-2	T-4	T-6	T-8	T-10	T-12	T-14	T-16	T-18	T-20
69	0.0 0.4	0.1 1.4	0.4 3.3	1.0 5.9	0.9 7.5	0.4 8.2	0.2 8.4	0.07 8.5	..	..	..
71	..	0.01 0.4	0.2 1.3	0.5 2.8	0.8 4.4	0.4 5.1	0.2 5.4	0.04 5.4	0.01 5.4	..	..
73	..	..	0.05 0.4	0.2 1.1	0.4 2.1	0.5 2.9	0.2 3.2	0.05 3.3	0.01 3.3	0.0 3.3	..
75	..	..	0.0 0.1	0.1 0.4	0.2 0.9	0.3 1.4	0.2 1.7	0.08 1.8	0.02 1.9	..	..
77	..	..	..	0.04 0.1	0.07 0.3	0.2 0.6	0.2 0.8	0.1 0.9	0.01 0.9	..	..
79	..	..	..	0.0 0.0	..	0.07 0.1	0.09 0.3	0.03 0.3	..	0.0 0.3	0.0 0.3
81	..	..	..	..	..	..	0.04 0.1	0.03 0.1	0.02 0.1	0.0 0.1	..
83	..	..	..	..	..	..	..	0.02 0.0	..	..	..
85	..	..	..	..	..	..	..	..	0.01 0.0	0.0 0.0	0.01 0.0
87	..	..	..	..	..	..	..	..	0.01 0.0	..	..
89	..	..	..	..	..	..	..	..	0.0 0.0	..	..

TABLE XVI. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRI & FLDSEPTEMBER-OCTOBER-NOVEMBER

(hourly observations 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
21	0.02 99.9	..	..	..	..	..	..	..	..	..
23	0.1 99.9	0.01 99.9	..	..	..	..	..	..	..	..
25	0.2 99.8	0.04 99.8	..	..	..	..	..	..	..	..
27	0.3 99.5	0.09 99.6	..	..	..	..	..	..	..	..
29	0.4 99.0	0.2 99.2	..	..	..	..	..	..	..	..
31	0.9 98.1	0.4 98.6	..	..	..	..	..	..	..	..
33	1.1 96.4	0.7 97.3	0.03 97.3	..	..	..	..	..	..	..
35	1.6 94.3	0.9 95.3	0.09 95.5	..	..	..	..	..	..	..
37	1.9 91.0	1.5 92.7	0.1 92.8	0.02 92.9	..	..	..	..	..	..
39	2.0 86.8	1.9 89.1	0.2 89.3	0.01 89.3	0.0 89.3	..	..	..	..	..
41	2.3 81.6	2.3 84.8	0.3 85.2	0.04 85.2	..	..	..	..	..	..
43	2.8 74.6	3.2 79.3	0.7 80.2	0.03 80.3	..	0.0 80.3	..	..	..	..
45	3.2 66.2	3.9 71.8	1.1 73.3	0.2 73.5	0.02 73.6	..	..	..	..	..
47	3.1 55.7	4.9 63.0	1.3 64.7	0.3 65.1	0.05 65.1	0.01 65.1	..	..	..	..
49	3.0 45.3	4.8 52.6	1.9 55.0	0.4 55.4	0.04 55.5	0.0 55.5	..	..	..	..
51	2.8 35.1	4.2 42.3	1.8 44.8	0.4 45.3	0.03 45.3	0.0 45.3	..	..	..	..
53	1.8 26.0	3.6 32.3	1.7 35.3	0.6 36.0	0.1 36.1	0.0 36.1	..	..	..	..

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TABLE XVI. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES  
DRIFFIELD SEPTEMBER-OCTOBER-NOVEMBER  
 (hourly observations 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	1.7 18.5	3.0 24.2	1.5 26.9	0.9 28.2	0.1 28.3	0.01 28.3	..	..	..	..
57	1.3 11.5	2.6 16.7	1.5 19.5	0.9 20.7	0.3 21.1	0.01 21.1	..	..	..	..
59	0.7 6.2	1.7 10.2	1.3 12.9	0.8 14.1	0.3 14.4	0.05 14.5	..	..	..	..
61	0.2 3.0	1.0 5.5	1.2 7.8	0.7 9.1	0.3 9.6	0.06 9.6	0.01 9.6	..	..	..
63	0.09 1.1	0.6 2.8	0.7 4.3	0.7 5.4	0.5 6.1	0.09 6.2	..	..	..	..
65	..	0.2 1.0	0.5 2.1	0.4 2.9	0.3 3.3	0.1 3.5	0.02 3.5	..	..	..
67	..	0.06 0.4	0.2 0.8	0.3 1.4	0.2 1.8	0.1 1.9	0.02 2.0	0.01 2.0	0.0 2.0	..
69	..	0.01 0.1	0.07 0.3	0.1 0.5	0.2 0.9	0.1 1.0	0.05 1.1	0.0 1.1	..	0.0 1.1
71	..	..	0.01 0.1	0.07 0.2	0.1 0.4	0.09 0.5	0.07 0.5	..	..	..
73	..	..	0.01 0.0	0.04 0.1	0.03 0.1	0.03 0.2	0.01 0.2	0.01 0.2	0.0 0.2	0.0 0.2
75	..	..	..	0.01 0.0	0.01 0.1	0.01 0.1	0.01 0.1	0.01 ..	..	..
77	..	..	..	..	..	0.02 0.0	..	..	..	..
79	..	..	..	..	..	0.0 0.0	..	..	..	..
81	..	..	..	..	..	..	0.02 0.0	..	..	..
83	..	..	..	..	..	..	..	0.0 0.0	..	..

TABLE XVII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDANNUAL

(hourly observations 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
5	0.0 100.0	..	..	..	..	..	..	..
7	0.01 100.0	..	..	..	..	..	..	..
9	0.01 100.0	..	..	..	..	..	..	..
11	0.01 99.9	0.0 99.9	..	..	..	..	..	..
13	0.02 99.9	0.0 99.9	..	..	..	..	..	..
15	0.02 99.9	0.01 99.9	..	..	..	..	..	..
17	0.04 99.9	0.01 99.9	..	..	..	..	..	..
19	0.07 99.8	0.01 99.8	..	..	..	..	..	..
21	0.1 99.7	0.03 99.8	..	..	..	..	..	..
23	0.2 99.6	0.05 99.6	..	..	..	..	..	..
25	0.4 99.3	0.1 99.4	0.0 99.4	..	..	..	..	..
27	0.7 98.6	0.3 98.9	0.0 98.9	..	..	..	..	..
29	1.1 97.2	0.6 97.9	0.0 97.9	..	..	..	..	..
31	1.7 95.0	1.0 96.1	0.05 96.2	..	..	..	..	..
33	2.2 91.1	1.8 93.3	0.1 93.4	..	..	..	..	..
35	2.1 86.2	2.2 88.9	0.4 89.3	0.01 89.3	..	..	..	..
37	2.4 81.0	2.5 84.1	0.4 84.6	0.02 84.6	0.0 84.6	..	..	..

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TABLE XVII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDANNUAL

(hourly observations 1946-1955)

DRY-BULB TEMP. (°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
39	2.2 75.1	2.8 78.6	0.5 79.2	0.05 79.3	0.0 79.3	..	..	..	..	..
41	2.1 69.1	2.7 72.9	0.6 73.6	0.1 73.7	0.01 73.7	0.0 73.7	..	..	..	..
43	2.3 62.4	3.0 67.0	0.9 68.1	0.1 68.2	0.01 68.2	0.0 68.2	..	..	..	..
45	2.2 54.9	3.2 60.1	1.1 61.7	0.2 61.9	0.01 61.9	0.0 61.9	..	..	..	..
47	2.1 47.3	3.4 52.7	1.3 54.7	0.4 55.2	0.04 55.2	0.0 55.2	..	..	..	..
49	1.8 39.7	3.2 45.2	1.3 47.3	0.5 47.9	0.07 48.0	0.01 48.0	..	..	..	..
51	1.6 32.4	3.1 37.9	1.4 40.2	0.5 40.9	0.1 41.1	0.01 41.1	0.0 41.1	..	..	..
53	1.3 25.5	2.6 30.8	1.4 33.2	0.6 34.1	0.2 34.3	0.03 34.4	..	..	..	..
55	1.2 19.1	2.3 24.3	1.3 26.9	0.7 27.9	0.2 28.2	0.04 28.3	0.01 28.3	..	..	..
57	1.0 12.9	2.0 17.9	1.3 20.7	0.8 22.1	0.2 22.4	0.07 22.5	0.02 22.5	0.0 22.5	..	..
59	0.6 8.0	1.4 11.9	1.2 14.9	0.8 16.5	0.4 17.0	0.08 17.1	0.01 17.1	..	..	..
61	0.3 4.6	1.0 7.4	1.0 9.9	0.8 11.7	0.5 12.5	0.1 12.6	0.03 12.6	0.0 12.6	..	..
63	0.1 2.3	0.5 4.3	0.7 6.1	0.7 7.6	0.6 8.6	0.2 8.9	0.03 8.9	0.01 8.9	..	..
65	0.03 1.1	0.2 2.3	0.5 3.7	0.5 4.8	0.5 5.6	0.3 6.0	0.05 6.1	0.01 6.1	0.0 6.1	..
67	0.01 0.4	0.07 1.0	0.3 2.0	0.5 3.0	0.3 3.6	0.2 3.9	0.07 4.0	0.01 4.0	0.0 4.0	..
69	0.0 0.1	0.02 0.4	0.1 0.9	0.3 1.6	0.3 2.1	0.2 2.4	0.07 2.5	0.02 2.5	0.0 2.5	0.0 2.5
71	..	0.0 0.1	0.06 0.4	0.2 0.8	0.2 1.2	0.1 1.4	0.07 1.5	0.01 1.5	0.0 1.5	..

(continued on next page)

TABLE XVII. PERCENTAGE FREQUENCIES OF DRY-BULB AND ASSOCIATED WET-BULB TEMPERATURES

DRIFFIELDANNUAL

(hourly observations 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	T-20
73	..	..	0.02 0.1	0.06 0.3	0.1 0.6	0.1 0.8	0.06 0.8	0.02 0.9	0.0 0.9	0.0 0.9	..
75	..	..	0.0 0.0	0.03 0.1	0.06 0.3	0.08 0.4	0.06 0.5	0.02 0.5	0.0 0.5	..	..
77	..	..	..	0.01 0.0	0.02 0.1	0.06 0.2	0.04 0.2	0.03 0.3	0.0 0.3	..	..
79	..	..	..	0.0 0.0	..	0.02 0.0	0.02 0.1	0.01 0.1	0.0 ..	0.0 0.1	0.0 0.1
81	..	..	..	..	..	..	0.01 0.0	0.01 0.0	0.01 0.0	0.0 0.0	..
83	..	..	..	..	..	..	..	0.01 0.0	..	..	..
85	..	..	..	..	..	..	..	..	0.0 0.0	0.0 0.0	0.0 0.0
87	..	..	..	..	..	..	..	..	0.0 0.0	..	..
89	..	..	..	..	..	..	..	..	0.0 0.0	..	..

TABLE XVIII

PERCENTAGE NUMBER OF HOURS WITH DRY-BULB

DRIFFIELD

DRY-BULB TEMPERATURE °F.

4.1	6.1	8.1	10.1	12.1	14.1	16.1	18.1	20.1	22.1	24.1	26.1	28.1	30.1	32.1	34.1	36.1	38.1	40.1	42.1	44.1	46.1
to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0

JANUARY	"	"	"	0.01	0.01	0.04	0.06	0.2	0.3	1.0	1.7	2.3	3.8	7.3	12.3	13.6	13.6	12.0	8.5	6.7	6.1	4.8	
FEBRUARY	"	"	0.06	0.07	0.2	0.2	0.3	0.4	0.7	0.7	1.6	3.4	6.8	9.6	11.0	11.5	10.2	9.8	8.0	7.2	5.8	4.7	
MARCH	0.03	0.09	0.05	0.08	0.05	0.09	0.1	0.1	0.3	0.6	1.0	1.8	3.6	5.1	8.9	9.7	11.4	10.7	10.9	8.6	6.2	5.8	
APRIL	"	"	"	"	"	"	"	"	"	"	0.2	1.0	1.8	2.5	3.5	5.4	8.3	9.0	11.5	11.8	11.1		
MAY	"	"	"	"	"	"	"	"	"	"	0.01	0.2	0.4	0.6	1.1	1.7	2.2	4.5	7.5	11.2	13.2		
JUNE	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.07	0.3	0.6	0.7	1.8	2.9	5.9	
JULY	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.03	0.03	0.1	0.4	1.1	2.0		
AUGUST	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.1	0.4	1.0	1.1	2.1		
SEPTEMBER	"	"	"	"	"	"	"	"	"	"	"	"	"	0.01	0.1	0.4	0.8	1.0	1.4	2.3	3.4	5.4	
OCTOBER	"	"	"	"	"	"	"	"	"	0.01	0.3	0.3	0.5	1.1	1.7	2.1	3.2	3.4	3.8	6.2	8.0	11.1	
NOVEMBER	"	"	"	"	"	"	"	"	"	0.07	0.4	0.5	0.9	1.3	2.8	3.7	5.2	6.7	7.7	9.4	11.8	14.0	12.3
DECEMBER	"	"	"	"	0.01	0.03	0.3	0.5	0.6	1.0	2.3	3.5	5.1	8.2	9.4	11.0	11.5	10.5	10.4	8.7	7.2		
DECEMBER	"	"	0.02	0.03	0.07	0.09	0.1	0.3	0.5	0.8	1.4	2.6	4.7	7.3	10.5	11.5	11.6	11.2	9.0	8.2	6.9	5.6	
JANUARY	"	"	0.03	0.03	0.07	0.09	0.1	0.3	0.5	0.8	1.4	2.6	4.7	7.3	10.5	11.5	11.6	11.2	9.0	8.2	6.9	5.6	
FEBRUARY	"	"	0.02	0.03	0.07	0.09	0.1	0.3	0.5	0.8	1.4	2.6	4.7	7.3	10.5	11.5	11.6	11.2	9.0	8.2	6.9	5.6	
MARCH	0.01	0.03	0.02	0.03	0.02	0.03	0.05	0.04	0.1	0.2	0.4	0.7	1.6	2.4	4.0	4.8	6.2	7.0	8.1	9.2	9.7	10.0	
JUNE	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.02	0.1	0.3	0.4	1.0	1.7	3.3
JULY	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.02	0.1	0.3	0.4	1.0	1.7	3.3
AUGUST	"	"	"	"	"	"	"	"	"	0.02	0.1	0.3	0.4	0.6	1.3	1.8	2.6	3.5	4.0	4.8	6.7	8.4	9.7
SEPTEMBER	"	"	"	"	"	"	"	"	"	0.02	0.1	0.3	0.4	0.6	1.3	1.8	2.6	3.5	4.0	4.8	6.7	8.4	9.7
OCTOBER	"	"	"	"	"	"	"	"	"	0.02	0.1	0.3	0.4	0.6	1.3	1.8	2.6	3.5	4.0	4.8	6.7	8.4	9.7
NOVEMBER	"	"	"	"	"	"	"	"	"	0.02	0.1	0.3	0.4	0.6	1.3	1.8	2.6	3.5	4.0	4.8	6.7	8.4	9.7
ANNUAL	0.0	0.01	0.01	0.02	0.02	0.03	0.04	0.08	0.2	0.3	0.5	0.9	1.7	2.7	4.0	4.7	5.3	5.6	5.6	6.3	6.7	7.1	

TEMPERATURE WITHIN RANGES OF 2° F.

(hourly observations 1946-1955)

46.1	50.1	52.1	54.1	56.1	58.1	60.1	62.1	64.1	66.1	68.1	70.1	72.1	74.1	76.1	78.1	80.1	82.1	84.1	86.1	88.1
to																				
50.0	52.0	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0	90.0
2.8	2.2	0.5	0.04	0.03	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
3.2	2.5	1.3	0.5	0.09	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
4.6	4.0	2.5	1.7	0.9	0.	0.3	0.1	0.1	0.03	"	"	"	"	"	"	"	"	"	"	"
8.4	7.2	6.1	4.6	2.8	1.9	1.1	0.7	0.4	0.3	0.1	0.1	0.08	0.01	0.01	"	"	"	"	"	"
12.6	10.9	8.6	6.5	5.6	4.1	3.0	2.4	1.6	0.8	0.5	0.4	0.3	0.1	0.05	"	"	"	"	"	"
9.2	10.9	11.3	11.4	10.5	8.9	8.2	5.6	4.2	2.7	1.6	1.0	0.7	0.6	0.5	0.3	0.1	0.06	0.06	"	"
2.9	6.0	9.3	11.3	11.4	11.6	10.9	8.3	7.8	5.1	4.0	3.1	2.0	1.3	0.8	0.3	0.09	"	"	"	"
3.5	5.5	8.1	11.4	13.7	13.0	10.6	8.6	7.3	4.9	3.5	2.4	1.4	0.8	0.5	0.05	0.05	"	0.03	0.04	0.01
7.8	8.6	10.9	11.5	12.2	10.1	8.0	6.1	4.0	2.5	1.7	1.0	0.4	0.1	0.06	0.01	0.07	0.01	"	"	"
13.6	11.1	9.0	8.5	6.3	4.1	2.5	1.7	1.0	0.3	0.2	0.04	"	"	"	"	"	"	"	"	"
8.7	7.8	3.5	1.9	0.9	0.5	0.1	0.03	"	"	"	"	"	"	"	"	"	"	"	"	"
4.5	2.9	1.5	0.6	0.3	0.01	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
3.5	2.5	1.1	0.4	0.1	0.0	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
8.6	7.3	5.7	4.3	3.1	2.1	1.5	1.1	0.7	0.4	0.2	0.2	0.1	0.05	0.02	"	"	"	"	"	"
5.2	7.4	9.5	11.4	11.9	11.2	9.9	7.5	6.4	4.3	3.0	2.2	1.4	0.9	0.6	0.2	0.09	0.02	0.03	0.01	0.0
10.1	9.2	7.8	7.3	6.5	4.9	3.5	2.6	1.6	0.9	0.6	0.4	0.1	0.05	0.02	0.0	0.02	0.0	"	"	"
6.8	6.6	6.1	5.8	5.4	4.6	3.8	2.8	2.2	1.4	1.0	0.7	0.4	0.3	0.2	0.05	0.03	0.01	0.01	0.0	0.0

TABLE XIX

DRIFFIELD  
 PERCENTAGE NUMBER OF HOURS WITH WET-BULB  
 WET-BULB TEMPERATURE °F.

	4.1	6.1	8.1	10.1	12.1	14.1	16.1	18.1	20.1	22.1	24.1	26.1	28.1	30.1	32.1	34.1	36.1	38.1	40.1	42.1	44.1	46.1			
	to																								
	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0			
JANUARY	"	"	"	0.01	0.01	0.04	0.1	0.2	0.4	1.3	2.0	3.1	5.8	10.0	15.2	14.0	13.2	9.8	7.0	6.4	5.4	3.7			
FEBRUARY	"	"	0.06	0.07	0.3	0.2	0.3	0.5	0.7	1.1	2.2	5.7	8.4	12.5	11.7	11.1	9.8	9.1	7.2	7.2	5.2	3.1			
MARCH	0.03	0.09	0.09	0.05	0.09	0.08	0.2	0.09	0.3	0.6	1.3	2.5	4.8	9.4	10.2	10.8	12.1	10.8	9.9	8.5	6.9	4.1			
APRIL	"	"	"	"	"	"	"	"	"	"	0.01	0.4	1.3	2.5	3.4	5.4	8.9	11.7	14.4	14.0	12.3	9.0			
MAY	"	"	"	"	"	"	"	"	"	"	0.04	0.2	0.5	0.7	1.6	2.2	4.1	8.9	13.0	14.0	15.4				
JUNE	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.01	0.2	0.4	0.7	1.5	2.5	6.2	11.5	
JULY	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.03	0.1	0.2	0.6	1.6	3.0		
AUGUST	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.01	0.2	0.5	1.1	1.4	2.9		
SEPTEMBER	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.03	0.1	0.6	1.0	1.3	1.9	3.3	5.7	8.3
OCTOBER	"	"	"	"	"	"	"	"	"	"	0.07	0.3	0.4	0.9	1.4	1.8	2.7	3.3	4.7	6.5	8.7	12.1	14.0		
NOVEMBER	"	"	"	"	"	"	"	"	0.1	0.4	0.6	1.1	1.6	3.8	4.5	6.6	7.9	9.5	12.3	13.6	13.7	8.7			
DECEMBER	"	"	"	"	"	0.01	0.07	0.3	0.5	0.7	1.4	2.8	4.0	6.9	10.5	11.0	12.3	11.0	9.8	9.7	7.2	5.9			
DECEMBER	"	"	"	"	"	0.02	0.03	0.08	0.09	0.2	0.3	0.6	1.0	1.8	3.8	6.0	9.7	12.5	12.1	12.0	10.0	8.0	7.8	5.9	
JANUARY	"	"	0.02	0.03	0.08	0.09	0.2	0.3	0.6	1.0	1.8	3.8	6.0	9.7	12.5	12.1	12.0	10.0	8.0	7.8	5.9	4.0			
MARCH																									
APRIL	0.01	0.03	0.03	0.02	0.03	0.03	0.06	0.03	0.1	0.2	0.4	1.0	2.1	4.1	4.8	5.9	7.7	8.8	11.0	11.8	11.1	9.5			
MAY																									
JUNE																									
JULY																									
AUGUST																									
SEPTEMBER																									
OCTOBER																									
NOVEMBER																									
ANNUAL	0.0	0.01	0.02	0.02	0.03	0.03	0.05	0.09	0.2	0.3	0.6	1.3	2.2	3.9	4.8	5.3	5.9	6.1	6.7	7.4	7.6	7.5			

## TEMPERATURE WITHIN RANGES OF 20F.

(hourly observations 1946-1955)

40.1	50.1	52.1	54.1	56.1	58.1	60.1	62.1	64.1	66.1	68.1	70.1	72.1
to												
50.0	52.0	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0	72.0	74.0
1.9	0.5	0.04	"	"	"	"	"	"	"	"	"	"
2.7	0.8	0.03	"	"	"	"	"	"	"	"	"	"
3.8	2.2	0.8	0.3	0.01	"	"	"	"	"	"	"	"
6.8	4.3	3.0	1.6	0.6	0.3	0.07	0.07	"	"	"	"	"
12.8	9.7	6.6	4.5	2.6	1.2	0.9	0.5	0.3	0.05	"	"	"
14.7	14.3	13.3	12.3	8.3	5.8	3.6	2.1	1.4	0.7	0.5	0.03	"
6.9	11.3	15.5	15.4	14.4	11.1	8.2	6.2	3.0	1.8	0.5	0.09	0.01
5.4	9.8	14.0	19.0	16.7	11.6	9.5	5.2	1.7	0.8	0.1	0.04	0.01
11.4	13.6	13.2	13.0	11.1	7.4	4.6	2.2	0.7	0.3	0.1	"	"
11.0	9.2	7.3	6.8	4.3	2.4	1.3	0.2	"	"	"	"	"
7.2	4.8	2.1	1.2	0.5	0.01	"	"	"	"	"	"	"
3.4	1.5	0.4	0.3	"	"	"	"	"	"	"	"	"
2.6	0.9	0.2	0.09	"	"	"	"	"	"	"	"	"
7.0	5.4	3.5	2.1	1.1	0.5	0.3	0.2	0.1	0.02	"	"	"
8.9	11.8	14.3	15.6	13.2	9.6	7.1	4.5	2.1	1.1	0.4	0.05	0.01
10.1	9.2	7.5	7.0	5.3	3.3	1.9	0.8	0.2	0.09	0.05	"	"
7.4	6.8	6.4	6.2	4.9	3.3	2.4	1.4	0.6	0.3	0.1	0.02	0.0