

TABLES

FOR OBTAINING

THE TEMPERATURE OF THE DEW-POINT,
RELATIVE HUMIDITY, AND
VAPOR PRESSURE.

PREPARED FOR USE

IN THE

UNITED STATES SIGNAL SERVICE.

WASHINGTON CITY:
SIGNAL OFFICE,
1889..

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The following tables are published for the use of the observers of the Signal Service and other co-operating observers, to be used on and after July 1, 1889.

Use of the tables.

The psychrometric formula below, and the tables based upon it, are for use in obtaining the dew-point and relative humidity from readings of the dry and wet thermometers. These tables are strictly applicable to roof shelters and the whirled psychrometer, but may be used without much error for all shelters fairly well ventilated. The formula (Ferrel's) is as follows:

$$p = p' - 0.000367 P (t - t') \left(1 + \frac{t - t'}{1571} \right) \quad \text{In which,}$$

Errata in the tables published by the Signal Office, Washington, 1889, for the temperature of the dew-point, relative humidity, and vapor pressure:

- Page 4, horizontal line 0°, vertical line 2°.6, —27 should be —28.
- Page 4, horizontal line 20°, vertical line 5°.0, —6 should be —7.
- Page 5, horizontal line 72°, vertical line 3°.5, 17 should be 67.
- Page 5, horizontal line 34°, vertical line 3°.0, 16 should be 26.
- Page 6, horizontal line 19°, vertical line 6°.0, add —23.
- Page 6, horizontal line 20°, vertical line 6°.0, —19 should be —17.
- Page 7, horizontal line 79°, vertical line 14°.5, 66 should be 56.
- Page 11, horizontal line 80°, vertical line 30°.0, —11 should be —8.
- Page 12, horizontal line 90°, vertical line 36°.0, —17 should be —20.
- Page 13, horizontal line 0°, vertical line 2°.6, 24 should be 25.
- Page 14, horizontal line 0°, vertical line 2°.6, 26 should be 25.
- Page 15, horizontal line 20°, vertical line 5°.0, 30 should be 31.
- Page 20, horizontal line 131°, vertical line 24°.0, 46 should be 45.
- Page 21, horizontal line 133°, vertical line 26°.0, 30 should be 29.
- Page 23, "Dry thermometer" in each case should be "Dew-point."
- Page 23, at 64°, .585 should be .595.

This errata sheet will be pasted in the tables mentioned above, opposite page 3, and the corrections made as indicated.

A. W. GREELY,
Chief Signal Officer.

WASHINGTON CITY, February 4, 1890.

UNITED STATES SIGNAL SERVICE DEW-POINT, RELATIVE HUMIDITY, AND VAPOR PRESSURE TABLES.

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Use of the tables.

The psychrometric formula below, and the tables based upon it, are for use in obtaining the dew-point and relative humidity from readings of the dry and wet thermometers. These tables are strictly applicable to roof shelters and the whirled psychrometer, but may be used without much error for all shelters fairly well ventilated. The formula (Ferrel's) is as follows:

$$p = p' - 0.000367 P (t - t') \left(1 + \frac{t - t'}{1571} \right) \text{ In which,}$$

p = vapor pressure of saturation at the dew-point temperature.

p' = vapor pressure of saturation at the wet-bulb temperature.

P = barometric pressure.

t = dry thermometer.

t' = wet thermometer.

Having given t and t' , the values of dew-point and relative humidity at 29.4 inches pressure (chosen because it is the mean pressure for all stations) may be immediately taken from the tables.

Example.

Given $t = 60^\circ$; $t - t' = 12^\circ$. Entering the table on page 6, with $t = 60^\circ$ and $t - t' = 12^\circ$, we find the dew-point = 35° ; and on page 16 the relative humidity = 39 per cent.

There is a small correction to be applied to these values, if great refinement is required, at pressures greater or less than 29.4 inches. This may be obtained by the use of the table on page 24 in connection with the vapor pressure given on page 23. Having found the dew-point, determine the vapor pressure corresponding to that dew-point.

Then in the table on page 24, with the air pressure and $t - t'$, find the correction to this vapor pressure. Find the dew-point corresponding to this corrected vapor pressure from the table on page 23, and with the corrected dew-point find the proper relative humidity.

Example.

Given $P = 27$ inches; $t = 60^\circ$ and $t' = 48^\circ$. The table, as above, gives the dew-point 35° . The vapor pressure corresponding is .203 of an inch; correction from the table on page 24 for $P = 27$ inches and $t - t' = 12^\circ$ is $\pm .010$. Vapor pressure corrected, = .213; corresponding dew-point, = 36° .

Each page of the relative humidity table is ten pages ahead of its corresponding page of dew-points. The dew-point 36° , corrected for

barometric pressure, on page 6, is one line lower than the dew-point originally found. The corresponding line, on page 16, under the 12° heading, gives the corrected relative humidity 40 per cent.

For an observation falling outside the limits of the table, the nearest values to the observations in the tables will be taken as the dew-point and relative humidity. For example, for a reading of the dry thermometer of 44° and a difference of the dry and wet thermometers of 15°.0, there being no values given in the table for 15°.0 those for a difference of 14°.5 will be taken. The dew-point and relative humidity will therefore be recorded as —42° and 2 per cent.

The values of the vapor pressures down to —58° Fahrenheit used in computing these tables were obtained by means of Broch's formula, which is based on Regnault's observations. The lowest temperature at which Regnault observed vapor pressure was about —27°.

In the series of observations from which the constants for the psychrometric formula given above was derived, the lowest dry thermometer temperature observed was 6°.4 Fahrenheit.

A. W. GREELY,
Chief Signal Officer.

SIGNAL OFFICE, WASHINGTON CITY,
July 1, 1889.

Temperature of the dew point, in degrees Fahrenheit.

Dew point.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t')												t (Dry ther.)	
	0°.2	0°.4	0°.6	0°.8	1°.0	1°.2	1°.4	1°.6	1°.8	2°.0	2°.2	2°.4		2°.6
	(t-t')													
-40	-49													-40
-39	-47													-39
-38	-46													-38
-37	-44	-56												-37
-36	-43	-53												-36
-35	-41	-50												-35
-34	-40	-48												-34
-33	-39	-46												-33
-32	-37	-44	-57											-32
-31	-36	-42	-53											-31
-30	-35	-41	-50											-30
-29	-34	-39	-48											-29
-28	-32	-37	-45	-58										-28
-27	-31	-36	-43	-53										-27
-26	-30	-35	-41	-50										-26
-25	-29	-34	-39	-47										-25
-24	-28	-33	-37	-44	-56									-24
-23	-26	-30	-35	-41	-51									-23
-22	-25	-29	-33	-39	-48									-22
-21	-24	-27	-32	-37	-44									-21
-20	-23	-26	-30	-35	-41									-20
-19	-22	-25	-29	-33	-39	-47								-19
-18	-21	-24	-27	-31	-37	-44								-18
-17	-20	-22	-26	-29	-34	-40	-49							-17
-16	-18	-21	-24	-28	-32	-38	-45							-16
-15	-17	-20	-23	-26	-30	-35	-41	-52						-15
-14	-16	-19	-22	-25	-28	-33	-38	-47						-14
-13	-15	-17	-20	-23	-26	-30	-36	-42						-13
-12	-14	-16	-19	-21	-24	-28	-33	-39	-47					-12
-11	-13	-15	-18	-20	-23	-26	-30	-36	-43					-11
-10	-12	-14	-16	-19	-22	-25	-28	-33	-38	-47				-10
-9	-11	-13	-15	-17	-20	-23	-26	-30	-35	-42				-9
-8	-10	-12	-14	-16	-19	-21	-25	-28	-32	-38	-47			-8
-7	-9	-10	-12	-15	-17	-20	-23	-26	-29	-35	-41			-7
-6	-8	-9	-11	-13	-15	-18	-21	-24	-27	-31	-37	-45		-6
-5	-7	-8	-10	-12	-14	-16	-19	-22	-25	-29	-33	-39	-49	-5
-4	-5	-7	-9	-11	-13	-15	-17	-20	-23	-26	-30	-35	-43	-4
-3	-4	-6	-8	-9	-11	-13	-16	-18	-21	-24	-27	-32	-40	-3
-2	-3	-5	-6	-8	-10	-12	-14	-16	-19	-22	-25	-29	-34	-2
-1	-2	-4	-5	-7	-9	-10	-12	-15	-17	-20	-23	-26	-30	-1
0	-1	-3	-4	-6	-7	-9	-11	-13	-15	-18	-21	-24	-28	0
1	0	-2	-3	-4	-6	-8	-9	-11	-13	-16	-18	-21	-25	1
2	+1	0	-2	-3	-5	-6	-8	-10	-12	-14	-16	-19	-22	2
3	2	+1	-1	-2	-3	-5	-6	-8	-10	-12	-14	-17	-20	3
4	3	2	0	-1	-2	-4	-5	-7	-8	-10	-13	-15	-17	4
5	4	3	+2	0	-1	-2	-4	-5	-7	-9	-11	-13	-15	5
6	5	4	3	+2	0	-1	-2	-4	-5	-7	-9	-11	-13	6
7	6	5	4	3	+1	0	-1	-2	-4	-6	-7	-9	-11	7
8	7	6	5	4	3	+2	0	-1	-3	-4	-6	-7	-9	8
9	8	7	6	5	4	3	+2	0	-1	-3	-4	-6	-8	9
10	9	8	7	6	5	4	3	+2	0	-1	-3	-4	-6	10
11	10	9	8	7	6	5	4	3	+2	0	-1	-2	-4	11
12	11	10	9	8	7	6	5	4	3	+2	0	-1	-3	12
13	12	11	10	9	8	7	6	5	4	3	+2	+1	-1	13
14	13	12	11	10	9	8	7	6	5	4	3	2	0	14
15	14	13	12	11	10	9	8	7	6	5	4	+2	3	15
16	15	14	13	12	11	10	9	8	7	6	5	4	3	16
17	16	15	14	13	12	11	10	9	8	7	6	5	4	17
18	17	16	15	14	13	12	11	10	9	8	7	6	5	18
19	18	17	16	15	14	13	12	11	10	9	8	7	6	19
20	19	18	17	16	15	14	13	12	11	10	9	8	7	20
t	0°.2	0°.4	0°.6	0°.8	1°.0	1°.2	1°.4	1°.6	1°.8	2°.0	2°.2	2°.4	2°.6	t

Temperature of the dew point, in degrees Fahrenheit.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').										t (Dry ther.)
	2 ^o .6	2 ^o .8	3 ^o .0	3 ^o .2	3 ^o .4	3 ^o .6	3 ^o .8	4 ^o .0	4 ^o .2	4 ^o .4	
- 2	-34	-39	-49								- 2
- 1	-30	-35	-42								- 1
0	-27	-31	-37	-45							0
1	-25	-28	-32	-39	-48						1
2	-22	-25	-29	-34	-40	-54					2
3	-20	-23	-25	-30	-35	-42	-54				3
4	-17	-20	-24	-26	-30	-30	-44				4
5	-15	-18	-21	-25	-27	-31	-37	-46			5
6	-13	-16	-18	-22	-23	-27	-32	-38	-48		6
7	-11	-13	-16	-19	-22	-24	-28	-33	-39	-49	7
8	-9	-11	-13	-16	-19	-22	-24	-28	-33	-40	8
9	-8	-9	-11	-14	-16	-19	-21	-24	-28	-33	9
10	-6	-7	-9	-12	-14	-16	-19	-21	-24	-28	10
11	-4	-6	-7	-10	-12	-14	-16	-19	-21	-24	11
12	-3	-4	-6	-8	-9	-11	-14	-16	-18	-21	12
13	-1	-2	-4	-6	-7	-9	-11	-13	-16	-19	13
14	0	-1	-2	-4	-5	-7	-9	-11	-13	-16	14
15	+ 2	+ 1	0	- 2	- 3	- 5	- 7	- 9	-11	-13	15
16	3	2	+ 1	0	- 2	- 3	- 5	- 6	- 8	-10	16
17	5	4	3	+ 2	0	- 1	- 3	- 4	- 6	- 8	17
18	6	5	4	+ 3	+ 2	+ 1	- 3	- 4	- 6	- 6	18
19	8	7	6	5	4	2	+ 1	0	- 2	- 4	19
20	9	8	7	6	5	4	3	+ 1	0	- 1	20
t	2 ^o .6	2 ^o .8	3 ^o .0	3 ^o .2	3 ^o .4	3 ^o .6	3 ^o .8	4 ^o .0	4 ^o .2	4 ^o .4	t

t	4 ^o .6	4 ^o .8	5 ^o .0	5 ^o .2	5 ^o .4	5 ^o .6	5 ^o .8	6 ^o .0	6 ^o .2	6 ^o .4	t
8	-50										8
9	-40	-52									9
10	-34	-41	-52								10
11	-29	-34	-41	-53							11
12	-24	-29	-34	-41	-53						12
13	-20	-24	-28	-34	-40	-52					13
14	-17	-20	-24	-28	-32	-40	-51				14
15	-14	-17	-20	-23	-27	-33	-39	-50			15
16	-12	-14	-16	-19	-22	-27	-32	-38	-49		16
17	-10	-11	-13	-16	-18	-22	-26	-31	-38	-47	17
18	-8	-10	-11	-13	-15	-18	-21	-25	-30	-36	18
19	-5	-7	-9	-10	-12	-15	-17	-21	-25	-29	19
20	-3	-5	-6	-9	-9	-12	-14	-17	-20	-23	20
t	4 ^o .6	4 ^o .8	5 ^o .0	5 ^o .2	5 ^o .4	5 ^o .6	5 ^o .8	6 ^o .0	6 ^o .2	6 ^o .4	t

Temperature of the dew point, in degrees Fahrenheit.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').												t (Dry ther.)
	0°.5	1°.0	1°.5	2°.0	2°.5	3°.0	3°.5	4°.0	4°.5	5°.0	5°.5	6°.0	
20	18	16	14	12	9	7	4	1	-3	-7	-13	-17	20
21	19	18	16	14	11	9	6	3	-1	-4	-10	-15	21
22	20	19	17	15	12	10	7	4	+	-2	-7	-12	22
23	21	20	18	16	14	12	9	6	+	0	-5	-9	23
24	22	21	19	17	15	13	10	8	3	+	-2	-6	24
25	23	22	20	18	16	14	12	10	7	4	0	-3	25
26	24	23	21	20	18	16	13	11	8	6	+	-1	26
27	25	24	22	21	19	17	15	13	10	8	+	1	27
28	26	25	23	22	20	18	16	14	11	9	4	3	28
29	27	26	24	23	21	20	18	16	13	11	6	5	29
30	28	27	25	24	22	21	19	17	15	13	10	7	30
31	29	28	26	25	23	22	20	19	16	14	11	9	31
32	30	29	28	27	25	23	21	20	18	16	13	11	32
33	31	30	29	28	26	25	23	21	19	17	15	13	33
34	32	31	30	29	27	26	24	23	21	19	16	14	34
35	33	32	31	30	28	27	25	24	22	20	18	16	35
36	34	33	32	31	29	28	26	25	23	22	20	18	36
37	35	34	33	32	30	29	27	26	24	23	21	19	37
38	36	35	34	33	31	30	29	28	26	24	22	21	38
39	37	36	35	34	32	31	30	29	27	26	24	22	39
40	38	37	36	35	33	32	30	29	27	26	24	22	40
41	39	38	37	36	34	33	31	30	28	27	25	24	41
42	40	39	38	37	35	34	32	31	29	28	26	25	42
43	41	40	39	38	36	35	33	32	30	29	27	26	43
44	42	41	40	39	37	36	34	33	31	29	28	27	44
45	43	42	41	40	38	37	35	34	32	31	29	28	45
46	44	43	42	41	39	38	36	35	33	32	30	29	46
47	45	44	43	42	40	39	37	36	34	33	31	30	47
48	46	45	44	43	41	40	38	37	35	34	32	31	48
49	47	46	45	44	42	41	39	38	36	35	33	32	49
50	48	47	46	45	43	42	40	39	37	36	34	33	50
51	49	48	47	46	44	43	41	40	38	37	35	34	51
52	50	49	48	47	45	44	42	41	39	38	36	35	52
53	51	50	49	48	46	45	43	42	40	39	37	36	53
54	52	51	50	49	47	46	44	43	41	40	38	37	54
55	53	52	51	50	48	47	45	44	42	41	39	38	55
56	54	53	52	51	49	48	46	45	43	42	40	39	56
57	55	54	53	52	50	49	47	46	44	43	41	40	57
58	56	55	54	53	51	50	48	47	45	44	42	41	58
59	57	56	55	54	52	51	49	48	46	45	43	42	59
60	58	57	56	55	53	52	50	49	47	46	44	43	60
61	59	58	57	56	54	53	51	50	48	47	45	44	61
62	60	59	58	57	55	54	52	51	49	48	46	45	62
63	61	60	59	58	56	55	53	52	50	49	47	46	63
64	62	61	60	59	57	56	54	53	51	50	48	47	64
65	63	62	61	60	58	57	55	54	52	51	49	48	65
66	64	63	62	61	59	58	56	55	53	52	50	49	66
67	65	64	63	62	60	59	57	56	54	53	51	50	67
68	66	65	64	63	61	60	58	57	55	54	52	51	68
69	67	66	65	64	62	61	59	58	56	55	53	52	69
70	68	67	66	65	63	62	60	59	57	56	54	53	70
71	69	68	67	66	64	63	61	60	58	57	55	54	71
72	70	69	68	67	65	64	62	61	59	58	56	55	72
73	71	70	69	68	66	65	63	62	60	59	57	56	73
74	72	71	70	69	67	66	64	63	61	60	58	57	74
75	73	72	71	70	68	67	65	64	62	61	59	58	75
76	74	73	72	71	69	68	66	65	63	62	60	59	76
77	75	74	73	72	70	69	67	66	64	63	61	60	77
78	76	75	74	73	71	70	68	67	65	64	62	61	78
79	77	76	75	74	72	71	69	68	66	65	63	62	79
80	78	77	76	75	73	72	70	69	67	66	64	63	80
80	80	79	78	77	77	76	75	74	73	73	72	72	80
t	0°.5	1°.0	1°.5	2°.0	2°.5	3°.0	3°.5	4°.0	4°.5	5°.0	5°.5	6°.0	t

Temperature of the dew point, in degrees Fahrenheit.

<i>t</i> (Dry ther.)	Difference between the dry and wet thermometers (<i>t-t'</i>).												<i>t'</i> (Dry ther.)		
	60.0	60.5	70.0	70.5	80.0	80.5	90.0	90.5	100.0	100.5	110.0	110.5		120.0	
19		-32	-59												19
20	-19	-26	-41												20
21	-15	-21	-32												21
22	-12	-18	-25	-41											22
23	-9	-15	-20	-31	-59										23
24	-6	-12	-16	-25	-40										24
25	-3	-8	-14	-22	-30	-55									25
26	-1	-5	-10	-17	-23	-37									26
27	+1	-3	-7	-13	-18	-29	-50								27
28	3	0	-4	-10	-16	-22	-35								28
29	5	+2	-2	-7	-12	-18	-27	-45							29
30	7	4	+1	-3	-8	-14	-20	-32							30
31	9	6	3	+1	-5	-10	-16	-24	-39						31
32	11	8	5	2	-2	-7	-12	-18	-25	-52					32
33	13	10	7	4	0	-4	-8	-14	-21	-34					33
34	14	11	9	6	+3	-1	-5	-10	-15	-25	-42				34
35	16	13	11	8	5	+2	-2	-7	-15	-20	-29				35
36	18	15	13	10	8	+2	-3	-8	-16	-21	-35				36
37	19	17	15	12	10	4	+1	-3	-17	-22	-41				37
38	21	19	17	14	12	7	4	0	-5	-10	-17	-43			38
39	22	20	18	16	14	9	8	+3	-1	-6	-12	-18	-29		39
40	24	22	20	18	16	11	11	5	+2	-3	-8	-14	-20		40
41	25	23	22	19	17	15	13	7	4	0	-4	-10	-16		41
42	26	24	23	21	19	17	15	12	9	6	+3	-5	-11		42
43	28	26	25	23	21	19	17	14	12	10	+3	0	-6		43
44	29	27	26	24	23	21	19	16	14	11	8	+2	-1		44
45	30	28	27	26	24	22	20	18	16	14	11	8	+1		45
46	32	30	29	27	26	24	22	20	18	15	13	10	7	4	46
47	33	31	30	29	27	25	24	22	20	17	15	12	10	7	47
48	35	33	32	30	29	27	25	23	22	19	17	14	12	12	48
49	36	34	33	31	30	28	27	25	23	21	19	17	14	14	49
50	37	35	34	33	31	30	28	27	25	23	21	19	17	17	50
51	38	37	36	34	33	31	30	28	27	25	23	21	19	19	51
52	40	38	37	36	34	33	31	30	28	27	25	23	21	21	52
53	41	39	38	37	36	34	33	31	30	28	27	25	23	23	53
54	42	41	40	39	37	36	34	33	31	30	28	27	25	25	54
55	43	42	41	40	39	37	36	34	33	31	30	28	27	27	55
56	44	43	42	41	40	39	37	36	34	33	31	30	28	28	56
57	46	45	44	42	41	40	39	37	36	35	33	31	30	30	57
58	47	46	45	44	42	41	40	39	37	36	35	33	31	31	58
59	48	47	46	45	44	43	41	40	39	38	36	35	33	33	59
60	49	48	47	46	45	44	43	41	40	39	38	36	35	35	60
61	50	49	48	47	46	45	44	43	42	41	39	38	36	36	61
62	52	51	50	49	48	47	45	44	43	42	41	39	38	38	62
63	53	52	51	50	49	48	47	45	44	43	42	41	39	39	63
64	54	53	52	51	50	49	48	47	46	45	43	42	41	41	64
65	55	54	53	52	51	50	49	48	47	46	45	43	42	42	65
66	56	55	54	53	52	51	50	49	48	47	46	45	44	44	66
67	57	56	55	54	53	52	51	50	49	48	47	46	45	45	67
68	58	57	56	55	54	53	52	51	50	49	48	47	46	46	68
69	59	58	57	56	55	54	53	52	51	50	49	48	47	48	69
70	61	60	59	58	57	56	55	54	53	52	51	50	49	49	70
71	62	61	60	59	58	57	56	55	54	53	52	51	50	51	71
72	63	62	61	60	59	58	57	56	55	54	53	52	51	52	72
73	64	63	62	61	60	59	58	57	56	55	54	53	52	53	73
74	65	64	63	62	61	60	59	58	57	56	55	54	53	54	74
75	66	65	64	63	62	61	60	59	58	57	56	55	54	55	75
76	67	66	65	64	63	62	61	60	59	58	57	56	55	56	76
77	68	67	66	65	64	63	62	61	60	59	58	57	56	57	77
78	69	68	67	66	65	64	63	62	61	60	59	58	57	58	78
79	70	69	68	67	66	65	64	63	62	61	60	59	58	59	79
80	72	71	70	69	68	67	66	65	64	63	62	61	60	60	80
<i>t</i>	60.0	60.5	70.0	70.5	80.0	80.5	90.0	90.5	100.0	100.5	110.0	110.5	120.0	<i>t</i>	

Temperature of the dew point, in degrees Fahrenheit.

<i>t</i> (Dry ther.)	Difference between the dry and wet thermometers (<i>t-t'</i>).													<i>t</i> (Dry ther.)	
	12 ^o .0	12 ^o .5	13 ^o .0	13 ^o .5	14 ^o .0	14 ^o .5	15 ^o .0	15 ^o .5	16 ^o .0	16 ^o .5	17 ^o .0	17 ^o .5	18 ^o .0		
40	-16	-23	-40												40
41	-11	-16	-27	-50											41
42	-6	-13	-22	-31											42
43	-2	-8	-15	-21	-36										43
44	+1	-4	-9	-17	-24	-42									44
45	4	0	-5	-11	-19	-27	-53								45
46	7	+3	-1	-6	-12	-18	-31								46
47	10	6	+3	-1	-7	-14	-20	-35							47
48	12	9	6	+2	-2	-8	-16	-23	-40						48
49	14	11	9	5	+1	-3	-10	-18	-25	-46					49
50	17	14	11	8	5	0	-5	-11	-20	-28	-58				50
51	19	16	14	11	8	+4	0	-6	-12	-18	-31				51
52	21	18	16	13	11	7	+3	-1	-6	-13	-19	-34			52
53	23	20	18	16	13	10	+2	-2	-2	-5	-15	-38			53
54	25	23	20	18	16	13	10	6	+2	-2	-8	-16	-38		54
55	27	25	23	20	18	15	12	9	6	+2	-3	-9	-17		55
56	28	26	25	22	20	18	15	12	9	5	+1	-4	-10		56
57	30	28	26	24	22	20	18	15	12	9	5	0	-4		57
58	31	30	28	26	24	22	20	18	15	12	9	+4	0		58
59	33	32	30	28	26	24	22	20	18	15	12	8	+4		59
60	35	33	32	30	28	26	24	22	20	18	15	12	8		60
61	36	35	33	32	30	28	26	24	22	20	18	15	12		61
62	38	37	35	34	32	30	28	26	24	22	20	18	15		62
63	39	38	37	35	34	32	30	28	26	24	22	20	18		63
64	41	39	38	37	35	34	32	30	28	27	24	22	20		64
65	42	41	40	38	37	35	34	32	30	28	27	25	23		65
66	44	43	41	40	38	37	35	34	32	30	29	27	25		66
67	45	44	43	41	40	39	37	36	34	32	31	29	27		67
68	46	45	44	43	42	40	39	38	36	34	33	31	29		68
69	48	47	46	45	43	42	40	39	38	36	34	33	31		69
70	49	48	47	46	45	43	42	41	39	38	36	35	33		70
71	51	49	48	47	46	45	43	42	41	39	38	36	35		71
72	52	51	50	49	47	46	45	44	43	41	40	38	37		72
73	53	52	51	50	49	48	46	45	44	43	41	40	38		73
74	54	53	52	51	50	49	48	47	45	44	43	41	40		74
75	56	55	54	53	52	50	49	48	47	45	44	43	42		75
76	57	56	55	54	53	52	50	49	48	47	46	45	43		76
77	58	57	56	55	54	53	52	51	50	49	48	46	45		77
78	59	58	57	56	55	54	53	52	51	50	49	48	47		78
79	61	60	59	58	57	66	55	54	53	52	51	49	48		79
80	62	61	60	59	58	57	56	55	54	53	52	51	50		80
<i>t</i>	12 ^o .0	12 ^o .5	13 ^o .0	13 ^o .5	14 ^o .0	14 ^o .5	15 ^o .0	15 ^o .5	16 ^o .0	16 ^o .5	17 ^o .0	17 ^o .5	18 ^o .0	<i>t</i>	

Temperature of the dew point, in degrees Fahrenheit.

t (Dry ther.)	Difference between the dry and wet thermometers ($t-t'$).												t (Dry ther.)	
	18°. ₀	19°. ₀	20°. ₀	21°. ₀	22°. ₀	23°. ₀	24°. ₀	25°. ₀	26°. ₀	27°. ₀	28°. ₀	29°. ₀		30°. ₀
55	-17	-47												55
56	-10	-27												56
57	-4	-16												57
58	0	-9												58
59	+4	-3												59
60	8	0												60
61	12	+4												61
62	15	8												62
63	18	12												63
64	20	15												64
65	23	18												65
66	25	20												66
67	27	23												67
68	29	25												68
69	31	27												69
70	33	29												70
71	35	31												71
72	37	33												72
73	38	35												73
74	40	37												74
75	42	39												75
76	43	41												76
77	45	42												77
78	47	44												78
79	48	46												79
80	50	47												80
t	18°. ₀	19°. ₀	20°. ₀	21°. ₀	22°. ₀	23°. ₀	24°. ₀	25°. ₀	26°. ₀	27°. ₀	28°. ₀	29°. ₀	30°. ₀	t

Temperature of the dew point, in degrees Fahrenheit.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').												t (Dry ther.)
	1° 0	2° 0	3° 0	4° 0	5° 0	6° 0	7° 0	8° 0	9° 0	10° 0	11° 0	12° 0	
80	79	77	76	74	73	72	70	68	67	65	63	62	80
81	80	78	77	75	74	73	71	70	68	66	65	63	81
82	81	79	78	77	75	74	72	71	69	68	66	64	82
83	82	80	79	78	76	75	73	72	70	69	67	65	83
84	83	81	80	79	77	76	74	73	71	70	68	67	84
85	84	82	81	80	78	77	75	74	72	71	69	68	85
86	85	83	82	81	79	78	76	75	73	72	71	69	86
87	86	84	83	82	80	79	78	76	74	73	72	70	87
88	87	85	84	83	81	80	79	77	75	74	73	71	88
89	88	86	85	84	82	81	80	78	76	76	74	72	89
90	89	87	86	85	84	82	81	79	78	77	75	74	90
91	90	88	87	85	85	83	82	80	79	78	76	75	91
92	91	89	88	87	86	84	83	82	80	79	77	76	92
93	92	91	89	88	87	85	84	83	81	80	78	77	93
94	93	92	90	89	88	86	85	84	82	81	80	78	94
95	94	93	91	90	89	87	86	85	83	82	81	79	95
96	95	94	92	91	90	88	87	86	84	83	82	80	96
97	96	95	93	92	91	90	88	87	86	84	83	81	97
98	96	96	94	93	92	91	89	88	87	85	84	83	98
99	98	97	95	94	93	92	90	89	88	86	85	84	99
100	99	98	96	95	94	93	91	90	89	87	86	85	100
101	100	99	97	96	95	94	92	91	90	88	87	86	101
102	101	100	98	97	96	95	93	92	91	90	88	87	102
103	102	101	99	98	97	96	94	93	92	91	89	88	103
104	103	102	100	99	98	97	96	94	93	92	90	89	104
105	104	103	101	100	99	98	97	95	94	93	91	90	105
106	105	104	102	101	100	99	98	96	95	94	93	91	106
107	106	105	103	102	101	100	99	97	96	95	94	92	107
108	107	106	104	103	102	101	100	98	97	96	95	93	108
109	108	107	105	104	103	102	101	99	98	97	96	94	109
110	109	108	107	105	104	103	102	101	99	98	97	96	110
111	110	109	108	106	105	104	103	102	100	99	98	97	111
112	111	110	109	107	106	105	104	103	101	100	99	98	112
113	112	111	110	108	107	106	105	104	102	101	100	99	113
114	113	112	111	109	108	107	106	105	103	102	101	100	114
115	114	113	112	110	109	108	107	106	105	103	102	101	115
116	115	114	113	111	110	109	108	107	106	104	103	102	116
117	116	115	114	112	111	110	109	108	107	105	104	103	117
118	117	116	115	113	112	111	110	109	108	106	105	104	118
119	118	117	116	114	113	112	111	110	109	107	106	105	119
120	119	118	117	115	114	113	112	111	110	108	107	106	120
121	120	119	118	117	115	114	113	112	111	110	108	107	121
122	121	120	119	118	116	115	114	113	112	111	109	108	122
123	122	121	120	119	117	116	115	114	113	112	110	109	123
124	123	122	121	120	118	117	116	115	114	113	111	110	124
125	124	123	122	121	119	118	117	116	115	114	112	111	125
126	125	124	123	122	120	119	118	117	116	115	114	112	126
127	126	125	124	123	121	120	119	118	117	116	115	113	127
128	127	126	125	124	122	121	120	119	118	117	116	114	128
129	128	127	126	125	123	122	121	120	119	118	117	115	129
130	129	128	127	126	124	123	122	121	120	119	118	117	130
131	130	129	128	127	125	124	123	122	121	120	119	118	131
132	131	130	129	128	126	125	124	123	122	121	120	119	132
133	132	131	130	129	128	126	125	124	123	122	121	120	133
134	133	132	131	130	129	127	126	125	124	123	122	121	134
135	134	133	132	131	130	128	127	126	125	124	123	122	135
136	135	134	133	132	131	129	128	127	126	125	124	123	136
137	136	135	134	133	132	130	129	128	127	126	125	124	137
138	137	136	135	134	133	131	130	129	128	127	126	125	138
139	138	137	136	135	134	132	131	130	129	128	127	126	139
140	139	138	137	136	135	133	132	131	130	129	128	127	140
t	1° 0	2° 0	3° 0	4° 0	5° 0	6° 0	7° 0	8° 0	9° 0	10° 0	11° 0	12° 0	t

Temperature of the dew point, in degrees Fahrenheit.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').													t (Dry ther.)
	12°.	13°.0	14°.0	15°.0	16°.0	17°.0	18°.0	19°.0	20°.0	21°.0	22°.0	23°.0	24°.0	
80	62	60	58	56	54	52	50	47	45	42	39	36	32	80
81	63	61	59	57	55	53	51	49	47	44	41	38	35	81
82	64	62	61	59	57	55	53	50	48	45	43	40	37	82
83	65	64	62	60	58	56	54	52	50	47	44	42	39	83
84	67	65	63	61	59	57	55	53	51	49	46	43	41	84
85	68	66	64	62	61	59	57	55	53	50	48	45	42	85
86	69	67	66	64	62	60	58	56	54	52	49	47	44	86
87	70	68	67	65	63	61	59	57	55	53	51	48	46	87
88	71	70	68	66	64	63	61	59	57	55	53	50	48	88
89	72	71	69	67	66	64	62	60	58	56	54	52	49	89
90	74	72	70	69	67	65	63	62	60	58	56	53	51	90
91	75	73	72	70	68	67	65	63	61	59	57	55	53	91
92	76	74	73	71	69	68	66	64	62	60	58	56	54	92
93	77	75	74	72	71	69	67	66	64	62	60	58	56	93
94	78	77	75	73	72	70	69	67	65	63	61	59	57	94
95	79	78	76	75	73	71	70	68	66	64	63	61	59	95
96	80	79	77	76	74	73	71	69	68	66	64	62	60	96
97	81	80	78	77	75	74	72	71	69	67	65	63	61	97
98	83	81	80	78	77	75	73	72	70	68	67	65	63	98
99	84	82	81	79	78	76	75	73	71	70	68	66	64	99
100	85	83	82	80	79	77	76	74	73	71	69	67	66	100
101	86	84	83	82	80	79	77	75	74	72	71	69	67	101
102	87	85	84	83	81	80	78	77	75	73	72	70	68	102
103	88	87	85	84	82	81	79	78	76	75	73	71	70	103
104	89	88	86	85	83	82	81	79	78	76	74	73	71	104
105	90	89	87	86	85	83	82	80	79	77	76	74	72	105
106	91	90	89	87	86	84	83	81	80	78	77	75	74	106
107	92	91	90	88	87	85	84	83	81	80	78	76	75	107
108	93	92	91	89	88	87	85	84	82	81	79	78	76	108
109	94	93	92	90	89	88	86	85	83	82	80	79	77	109
110	96	94	93	92	90	89	87	86	85	83	82	80	79	110
111	97	95	94	93	91	90	89	87	86	84	83	81	80	111
112	98	96	95	94	92	91	90	88	87	85	84	83	81	112
113	99	97	96	95	93	92	91	89	88	86	85	84	82	113
114	100	99	97	96	95	93	92	91	89	88	86	85	83	114
115	101	100	98	97	96	94	93	92	90	89	88	86	85	115
116	102	101	99	98	96	95	94	93	91	89	89	87	86	116
117	103	102	100	99	98	96	95	94	93	91	90	88	87	117
118	104	103	101	100	99	97	96	95	94	92	91	90	88	118
119	105	104	103	101	100	99	97	96	95	93	92	91	89	119
120	106	105	104	102	101	100	99	97	96	95	93	92	90	120
121	107	106	105	103	102	101	100	98	97	96	94	93	92	121
122	108	107	106	105	103	102	101	99	98	97	96	94	93	122
123	109	108	107	106	104	103	102	101	99	98	97	95	94	123
124	110	109	108	107	105	104	103	102	100	99	98	96	95	124
125	111	110	109	108	106	105	104	103	101	100	99	98	96	125
126	112	111	110	109	108	106	105	104	103	101	100	99	97	126
127	113	112	111	110	109	107	106	105	104	102	101	100	98	127
128	114	113	112	111	110	108	107	106	105	103	102	101	100	128
129	115	114	113	112	111	110	108	107	106	105	103	102	101	129
130	117	115	114	113	112	111	109	108	107	106	104	103	102	130
131	118	116	115	114	113	112	110	109	108	107	106	104	103	131
132	119	117	116	115	114	113	112	110	109	108	107	105	104	132
133	120	118	117	116	115	114	113	111	110	109	108	106	105	133
134	121	120	118	117	116	115	114	112	111	110	109	108	106	134
135	122	121	119	118	117	116	115	113	112	111	110	109	107	135
136	123	122	120	119	118	117	116	115	113	112	111	110	108	136
137	124	123	121	120	119	118	117	116	114	113	112	111	110	137
138	125	124	122	121	120	119	118	117	115	114	113	112	111	138
139	126	125	124	122	121	120	119	118	117	115	114	113	112	139
140	127	126	125	123	122	121	120	119	118	116	115	114	113	140
t	12°.0	13°.0	14°.0	15°.0	16°.0	17°.0	18°.0	19°.0	20°.0	21°.0	22°.0	23°.0	24°.0	t

Temperature of the dew point, in degrees Fahrenheit.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').														t (Dry ther.)
	24° 0	25° 0	26° 0	27° 0	28° 0	29° 0	30° 0	31° 0	32° 0	33° 0	34° 0	35° 0	36° 0		
80	32	28	24	18	12	3	-11	-40							80
81	35	31	26	22	16	8	-2	-18							81
82	37	33	29	25	19	13	+4	-7							82
83	39	35	31	27	22	17	9	-1	-35						83
84	41	37	34	30	25	20	14	+5	-15						84
85	42	39	36	32	28	23	18	11	+1	-13					85
86	44	41	38	35	30	26	21	15	7	-5					86
87	46	43	40	37	33	29	24	19	12	+3	-25				87
88	48	45	42	39	35	31	27	22	16	-2	-11				88
89	49	47	44	41	38	34	30	25	20	13	+4	-21	-44		89
90	51	48	46	43	40	36	32	28	23	18	10	-1	-20		90
91	53	50	47	45	42	38	35	31	26	21	15	+6	-7		91
92	54	52	49	46	44	41	37	34	29	25	19	12	+1	8	92
93	56	53	51	48	46	43	39	36	32	28	23	16	3		93
94	57	55	53	50	47	45	42	38	35	31	26	20	13		94
95	59	56	54	52	49	46	44	40	37	33	29	24	18		95
96	60	58	56	53	51	48	46	43	39	36	32	27	22		96
97	61	59	57	55	53	50	47	45	41	38	34	30	25		97
98	63	61	59	57	54	52	49	47	44	40	37	33	28		98
99	64	62	60	58	56	54	51	48	46	43	39	35	31		99
100	66	64	62	60	57	55	53	50	48	45	41	38	34		100
101	67	65	63	61	59	57	54	52	49	47	44	40	37		101
102	68	66	65	63	61	58	56	54	51	49	46	43	39		102
103	70	68	66	64	62	60	58	55	53	50	48	45	41		103
104	71	69	67	65	63	61	59	57	55	52	50	47	44		104
105	72	70	69	67	65	63	61	59	56	54	52	49	46		105
106	74	72	70	68	66	64	62	60	58	56	53	51	48		106
107	75	73	71	70	68	66	64	62	60	57	55	52	50		107
108	76	74	73	71	69	67	65	63	61	59	57	54	52		108
109	77	76	74	72	71	69	67	65	63	61	58	56	54		109
110	79	77	75	74	72	70	68	66	64	62	60	58	55		110
111	80	78	77	75	73	71	70	68	66	64	62	59	57		111
112	81	79	78	76	74	73	71	69	67	65	63	61	59		112
113	82	81	79	77	76	74	72	71	69	67	65	63	60		113
114	83	82	80	79	77	75	74	72	70	68	66	64	62		114
115	85	83	82	80	78	77	75	73	72	70	68	66	64		115
116	86	84	83	81	80	78	76	75	73	71	69	67	65		116
117	87	85	84	82	81	79	78	76	74	72	71	69	67		117
118	88	87	85	84	82	81	79	77	76	74	72	70	68		118
119	89	88	86	85	83	82	80	79	77	75	74	72	70		119
120	90	89	88	86	85	83	82	80	78	77	75	73	71		120
121	92	90	89	87	86	84	83	81	80	78	76	74	73		121
122	93	91	90	89	87	86	84	83	81	79	78	76	74		122
123	94	93	91	90	88	87	85	84	82	81	79	77	75		123
124	95	94	92	91	89	88	87	85	83	82	80	79	77		124
125	96	95	93	92	91	89	88	86	85	83	82	80	78		125
126	97	96	95	93	92	90	89	87	86	84	83	81	80		126
127	98	97	96	94	93	92	90	89	87	86	84	83	81		127
128	100	98	97	96	94	93	91	90	88	87	85	84	82		128
129	101	99	98	97	95	94	93	91	90	88	87	85	84		129
130	102	101	99	98	97	95	94	92	91	89	88	86	85		130
131	103	102	100	99	98	96	95	94	92	91	89	88	86		131
132	104	103	101	100	99	97	96	95	93	92	90	89	87		132
133	105	104	103	101	100	99	97	96	94	93	92	90	89		133
134	106	105	104	102	101	100	98	97	96	94	93	91	90		134
135	107	106	105	104	102	101	100	98	97	95	94	93	91		135
136	108	107	106	105	103	102	101	99	98	97	95	94	92		136
137	110	108	107	106	104	103	102	101	99	98	96	95	94		137
138	111	109	108	107	106	104	103	102	100	99	98	96	95		138
139	112	110	109	108	107	105	104	103	101	100	99	97	96		139
140	113	112	110	109	108	107	105	104	103	101	100	99	97		140

Temperature of the dew point, in degrees Fahrenheit.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').													t (Dry ther.)
	36°.0	37°.0	38°.0	39°.0	40°.0	41°.0	42°.0	43°.0	44°.0	45°.0	46°.0	47°.0	48°.0	
89	-44													89
90	-17													90
91	-7	-33												91
92	+1	-13												92
93	8	-4	-26											93
94	13	+4	-10											94
95	18	10	-1	-20										95
96	22	15	+6	-6	-40									96
97	25	19	12	+1	-15									97
98	28	23	17	8	-4	-29								98
99	31	27	21	14	+4	-11								99
100	34	30	25	19	11	0	-21							100
101	37	32	28	23	16	+7	-6							101
102	39	35	31	26	20	13	+3	-42						102
103	41	38	34	29	24	18	+10	-14						103
104	44	40	37	32	28	22	15	-2	-28					104
105	46	43	39	35	31	26	20	+1	-19					105
106	48	45	42	38	34	29	24	9	-4	-38				106
107	50	47	44	40	37	32	28	22	15	+4	-12			107
108	52	49	46	43	39	35	31	26	19	11	0	-24		108
109	54	51	48	45	42	38	34	30	24	17	+8	-6	-56	109
110	55	53	50	47	44	41	37	33	28	21	14	+4	-15	110
111	57	54	52	49	46	43	39	35	31	25	19	11	-1	111
112	59	56	54	51	48	45	42	38	34	29	24	16	+7	112
113	60	58	56	53	50	47	44	41	37	32	28	21	14	113
114	62	60	58	55	52	49	47	43	40	35	31	26	19	114
115	64	62	59	57	54	52	49	46	42	38	34	30	24	115
116	65	63	61	59	56	54	51	48	45	41	37	33	28	116
117	67	65	63	60	58	56	53	50	47	44	40	36	31	117
118	68	66	64	62	60	57	55	52	49	46	43	39	34	118
119	70	68	66	64	61	59	57	54	51	48	45	42	37	119
120	71	69	67	65	63	61	59	56	53	50	47	44	40	120
121	73	71	69	67	65	63	60	58	55	52	50	47	43	121
122	74	72	70	68	66	64	62	60	57	54	52	49	46	122
123	75	74	72	70	68	66	64	61	59	56	54	51	48	123
124	77	75	73	71	69	67	65	63	61	58	56	53	50	124
125	78	76	75	73	71	69	67	65	63	60	58	55	52	125
126	80	78	76	74	73	71	69	67	64	62	60	57	54	126
127	81	79	78	76	74	72	70	68	66	64	62	59	56	127
128	82	81	79	77	75	74	72	70	68	65	63	61	58	128
129	84	82	80	79	77	75	73	71	69	67	65	63	60	129
130	85	83	82	80	78	76	75	73	71	69	67	64	62	130
131	86	85	83	81	80	78	76	74	72	70	68	66	64	131
132	87	86	84	83	81	79	78	76	74	72	70	68	66	132
133	89	87	86	84	82	81	79	77	75	73	71	69	67	133
134	90	88	87	85	84	82	80	79	77	75	73	71	69	134
135	91	90	88	87	85	83	82	80	78	76	75	73	71	135
136	92	91	89	88	86	85	83	81	80	78	76	74	72	136
137	94	92	91	89	88	86	84	83	81	79	78	76	74	137
138	95	93	92	90	89	87	86	84	82	81	79	77	75	138
139	96	95	93	92	90	89	87	85	84	82	80	79	77	139
140	97	96	94	93	91	90	88	87	85	83	82	80	78	140
t	36°.0	37°.0	38°.0	39°.0	40°.0	41°.0	42°.0	43°.0	44°.0	45°.0	46°.0	47°.0	48°.0	t

Relative humidity, per cent.

<i>t</i> (Dry ther.)	Difference between the dry and wet thermometers (<i>t-t'</i>).												<i>t</i> (Dry ther.)				
	0°.2	0°.4	0°.6	0°.8	1°.0	1°.2	1°.4	1°.6	1°.8	2°.0	2°.2	2°.4		2°.6			
	<i>t</i> (Dry ther.)		<i>t</i> (Dry ther.)		<i>t</i> (Dry ther.)		<i>t</i> (Dry ther.)		<i>t</i> (Dry ther.)		<i>t</i> (Dry ther.)			<i>t</i> (Dry ther.)			
-40	58																-40
-39	61																-39
-38	62																-38
-37	65	31															-37
-36	66	35															-36
-35	69	38															-35
-34	71	43															-34
-33	73	45															-33
-32	74	48															-32
-31	75	51	22														-31
-30	76	54	30														-30
-29	78	56	33														-29
-28	79	59	37	17													-28
-27	80	61	40	21													-27
-26	81	63	43	25													-26
-25	82	64	46	28													-25
-24	83	66	49	32	15												-24
-23	84	67	51	35	19												-23
-22	84	68	53	39	23												-22
-21	85	70	56	42	27												-21
-20	86	71	58	44	30												-20
-19	86	73	59	47	34	20											-19
-18	87	74	61	49	36	23											-18
-17	88	75	63	52	39	27	16										-17
-16	88	77	65	54	42	31	20										-16
-15	89	78	66	56	45	34	23	12									-15
-14	89	79	68	58	48	37	27	16									-14
-13	90	80	69	60	50	40	30	20									-13
-12	90	80	71	62	52	43	33	24									-12
-11	91	81	72	64	54	45	36	27	14	18							-11
-10	91	82	73	64	55	47	39	30	21	13							-10
-9	91	83	74	65	57	49	42	33	25	17							-9
-8	92	84	75	67	59	51	43	36	28	20							-8
-7	92	84	76	68	61	53	45	37	31	23	12						-7
-6	93	85	77	70	63	55	48	40	34	27	16						-6
-5	93	86	78	71	64	57	50	42	35	30	23	16					-5
-4	93	86	79	72	65	59	52	45	38	32	26	19	9				-4
-3	93	87	80	73	67	60	54	47	41	34	29	23	13				-3
-2	94	87	81	74	68	62	56	49	43	37	32	26	20				-2
-1	94	88	82	75	69	63	57	51	45	39	33	29	23				-1
0	94	88	82	76	71	65	59	53	47	42	36	30	24				0
1	94	89	83	77	72	66	61	56	49	44	38	33	28				1
2	95	89	84	78	73	68	62	57	51	46	41	36	31				2
3	95	90	84	79	74	69	64	59	53	48	43	38	33				3
4	95	90	85	80	75	70	65	60	55	50	45	40	35				4
5	95	90	86	81	76	71	66	62	57	52	47	43	38				5
6	95	91	86	81	77	72	68	63	59	54	49	45	41				6
7	95	91	86	82	78	73	69	64	60	55	51	47	43				7
8	96	92	87	83	79	74	70	66	61	57	53	49	45				8
9	96	92	87	83	79	75	71	67	63	59	55	51	47				9
10	96	92	88	84	80	76	72	68	64	60	56	52	48				10
11	96	92	88	85	81	77	73	69	65	62	58	54	50				11
12	96	93	89	85	81	78	74	70	66	63	59	56	52				12
13	96	93	89	85	82	78	75	71	68	64	61	57	53				13
14	96	93	90	86	83	79	76	72	69	65	62	59	55				14
15	97	93	90	87	83	80	77	73	70	67	63	60	57				15
16	97	94	90	87	84	81	77	74	71	68	65	61	58				16
17	97	94	91	87	84	81	78	75	72	69	66	63	60				17
18	97	94	91	88	85	82	79	76	73	70	67	64	61				18
19	97	94	91	88	85	82	79	76	74	71	68	65	62				19
20	97	94	91	89	86	83	80	77	74	72	69	66	63				20
<i>t</i>	0°.2	0°.4	0°.6	0°.8	1°.0	1°.2	1°.4	1°.6	1°.8	2°.0	2°.2	2°.4	2°.6	<i>t</i>			

Relative Humidity,

Relative humidity, per cent.

t (Dry ther.)	Difference between the dry and wet thermometers ($t-t'$).										t' (Dry ther.)
	2 ^o .6	2 ^o .8	3 ^o .0	3 ^o .2	3 ^o .4	3 ^o .6	3 ^o .8	4 ^o .0	4 ^o .2	4 ^o .4	
— 2	20	14	7								— 2
— 1	23	17	11								— 1
0	26	20	15	9							0
1	28	24	18	13	7						1
2	31	26	21	16	11	4					2
3	33	28	24	19	14	9	4				3
4	35	31	26	22	18	13	8				4
5	38	33	28	23	21	16	11	7			5
6	41	35	31	25	23	19	15	10	6		6
7	43	38	34	28	24	22	18	14	9	5	7
8	45	41	36	31	27	24	21	17	12	9	8
9	47	43	38	33	30	26	24	20	16	12	9
10	48	45	41	35	32	29	26	23	19	15	10
11	50	46	43	38	34	31	28	24	22	18	11
12	52	48	45	41	37	34	30	26	24	21	12
13	53	50	46	43	39	36	32	29	25	22	13
14	55	51	48	44	41	38	34	31	28	24	14
15	57	53	50	46	43	40	36	34	30	27	15
16	58	54	52	49	45	42	38	36	33	30	16
17	60	56	53	51	47	44	40	38	35	32	17
18	61	57	55	52	49	46	42	40	37	34	18
19	62	59	56	54	51	48	45	42	39	36	19
20	63	60	58	55	53	50	47	44	41	38	20
t	2 ^o .6	2 ^o .8	3 ^o .0	3 ^o .2	3 ^o .4	3 ^o .6	3 ^o .8	4 ^o .0	4 ^o .2	4 ^o .4	t
t	4 ^o .6	4 ^o .8	5 ^o .0	5 ^o .2	5 ^o .4	5 ^o .6	5 ^o .8	6 ^o .0	6 ^o .2	6 ^o .4	t
8	4										8
9	8	4									9
10	11	7	4								10
11	14	10	7	3							11
12	17	14	10	7	3						12
13	20	17	13	10	7	3					13
14	23	19	16	13	10	6	3				14
15	25	22	19	16	13	9	6	3			15
16	27	25	21	19	16	13	10	6	3		16
17	29	27	24	21	19	15	13	10	7	4	17
18	31	28	27	24	22	18	15	13	10	7	18
19	34	31	28	26	24	21	18	16	13	10	19
20	36	33	31	27	26	23	22	18	15	13	20
t	4 ^o .6	4 ^o .8	5 ^o .0	5 ^o .2	5 ^o .4	5 ^o .6	5 ^o .8	6 ^o .0	6 ^o .2	6 ^o .4	t

Relative humidity, per cent.

t (Dry ther.)		Difference between the dry and wet thermometers ($t-t'$).												t' (Dry ther.)	
		0 ^o .5	1 ^o .0	1 ^o .5	2 ^o .0	2 ^o .5	3 ^o .0	3 ^o .5	4 ^o .0	4 ^o .5	5 ^o .0	5 ^o .5	6 ^o .0		
20	93	86	79	72	65	58	51	44	37	30	23	18	20		
21	93	86	79	73	66	59	52	45	39	32	25	19	21		
22	93	86	80	73	67	60	54	47	41	34	28	21	22		
23	93	87	80	74	68	61	55	49	43	36	30	24	23		
24	94	87	81	75	69	62	56	50	44	38	32	26	24		
25	94	88	82	76	70	63	57	52	46	40	34	28	25		
26	94	88	82	76	71	65	59	54	47	42	36	30	26		
27	94	89	83	77	72	66	60	54	49	43	38	32	27		
28	95	89	83	78	72	67	61	56	50	45	39	34	28		
29	95	89	84	78	73	67	62	57	52	47	41	36	29		
30	95	90	84	79	73	68	63	58	53	48	43	38	30		
31	95	90	84	79	74	69	64	59	54	49	45	40	31		
32	95	90	85	80	75	70	65	61	56	51	46	41	32		
33	95	90	85	80	76	71	66	62	57	52	47	43	33		
34	95	90	85	81	76	72	67	63	58	53	49	44	34		
35	95	91	85	81	77	72	68	64	59	54	50	45	35		
36	96	91	86	82	77	73	69	64	60	56	51	47	36		
37	96	91	87	82	78	74	69	65	61	56	52	48	37		
38	96	92	87	83	79	75	70	66	62	57	53	50	38		
39	96	92	88	83	79	75	71	67	63	58	54	51	39		
40	96	92	88	84	80	76	72	68	63	59	55	52	40		
41	96	92	88	84	80	76	72	68	64	60	57	53	41		
42	96	92	88	84	81	77	73	69	65	61	58	54	42		
43	96	92	88	85	81	77	74	70	66	62	58	55	43		
44	96	92	88	85	81	78	74	70	67	63	59	56	44		
45	96	92	89	85	82	78	75	71	67	64	60	57	45		
46	96	93	89	85	82	79	75	72	68	65	61	58	46		
47	96	93	89	86	83	79	76	72	69	66	62	59	47		
48	96	93	89	86	83	79	76	73	69	66	63	60	48		
49	97	93	90	86	83	80	76	73	70	67	63	60	49		
50	97	93	90	87	83	80	77	74	70	67	64	61	50		
51	97	93	90	87	84	81	77	74	71	68	65	62	51		
52	97	94	90	87	84	81	78	75	72	69	66	63	52		
53	97	94	91	87	84	81	78	75	72	69	66	63	53		
54	97	94	91	88	85	82	79	76	73	70	67	64	54		
55	97	94	91	88	85	82	79	76	73	70	68	65	55		
56	97	94	91	88	85	82	80	77	74	71	68	65	56		
57	97	94	91	88	86	83	80	77	74	71	69	66	57		
58	97	94	91	89	86	83	80	78	75	72	69	67	58		
59	97	94	92	89	86	83	81	78	75	72	70	67	59		
60	97	94	92	89	86	84	81	78	75	73	70	68	60		
61	97	94	92	89	87	84	81	78	76	73	71	68	61		
62	97	95	92	89	87	84	81	79	76	74	71	69	62		
63	97	95	92	89	87	84	82	79	77	74	72	69	63		
64	97	95	92	90	87	85	82	79	77	74	72	70	64		
65	97	95	92	90	87	85	82	80	77	75	72	70	65		
66	97	95	92	90	87	85	82	80	78	75	73	71	66		
67	98	95	93	90	88	85	83	80	78	76	73	71	67		
68	98	95	93	90	88	85	83	81	78	76	74	71	68		
69	98	95	93	90	88	86	83	81	78	76	74	72	69		
70	98	95	93	90	88	86	83	81	79	77	74	72	70		
71	98	95	93	91	88	86	84	81	79	77	75	72	71		
72	98	95	93	91	88	86	84	82	79	77	75	73	72		
73	98	95	93	91	88	86	84	82	80	78	75	73	73		
74	98	95	93	91	88	86	84	82	80	78	76	74	74		
75	98	95	93	91	89	87	84	82	80	78	76	74	75		
76	98	95	93	91	89	87	85	82	80	78	76	74	76		
77	98	95	93	91	89	87	85	83	80	78	76	74	77		
78	98	96	93	91	89	87	85	83	81	79	77	75	78		
79	98	96	94	91	89	87	85	83	81	79	77	75	79		
80	98	96	94	92	89	87	85	83	81	79	77	75	80		
t	0 ^o .5	1 ^o .0	1 ^o .5	2 ^o .0	2 ^o .5	3 ^o .0	3 ^o .5	4 ^o .0	4 ^o .5	5 ^o .0	5 ^o .5	6 ^o .0	t		

Relative humidity, per cent.

<i>t</i> (Dry ther.)	Difference between the dry and wet thermometers (<i>t-t'</i>).												<i>t</i> (Dry ther.)	
	60.0	60.5	70.0	70.5	80.0	80.5	90.0	90.5	100.0	100.5	110.0	110.5		120.0
19	16	8	2											19
20	18	11	5											20
21	19	14	8											21
22	21	15	11	4										22
23	24	17	13	7	1									23
24	26	20	16	10	4									24
25	28	22	17	12	7	2								25
26	30	24	19	14	10	4								26
27	32	27	22	16	12	7								27
28	34	29	24	19	14	10	2							28
29	36	31	26	21	16	11	5							29
30	38	33	28	23	18	13	7							30
31	40	35	30	25	21	16	10							31
32	41	37	32	28	23	18	14							32
33	43	38	34	29	25	20	16							33
34	44	40	35	31	27	22	18							34
35	45	41	37	33	29	24	20							35
36	47	43	38	34	30	26	22							36
37	48	44	40	36	32	28	24							37
38	50	46	42	38	34	30	26							38
39	51	47	43	39	35	32	28							39
40	52	48	44	41	37	33	30							40
41	53	49	46	42	38	35	31							41
42	54	50	47	43	40	36	33							42
43	55	51	48	45	41	38	34							43
44	56	52	49	46	43	39	36							44
45	57	53	50	47	44	40	37							45
46	58	54	51	48	45	42	38							46
47	59	55	52	49	46	43	40							47
48	60	56	53	50	47	44	41							48
49	60	57	54	51	48	45	42							49
50	61	58	55	52	49	46	43							50
51	62	59	56	53	50	47	45							51
52	63	60	57	54	51	48	46							52
53	63	61	58	55	52	49	47							53
54	64	61	59	56	53	50	48							54
55	65	62	59	57	54	51	49							55
56	65	63	60	57	55	52	50							56
57	66	64	61	58	55	53	50							57
58	67	64	61	59	56	53	51							58
59	67	65	62	60	57	54	52							59
60	68	65	63	60	58	55	53							60
61	68	66	63	61	58	56	54							61
62	69	66	64	61	59	57	54							62
63	69	67	64	62	60	57	55							63
64	70	67	65	62	60	58	56							64
65	70	68	65	63	61	59	56							65
66	71	68	66	63	61	59	57							66
67	71	69	66	64	62	60	58							67
68	71	69	67	65	63	60	58							68
69	72	70	67	65	63	61	59							69
70	72	70	68	66	64	62	60							70
71	72	70	68	66	64	62	60							71
72	73	71	69	67	65	63	61							72
73	73	71	69	67	65	63	61							73
74	74	72	70	68	66	64	62							74
75	74	72	70	68	66	64	62							75
76	74	72	70	68	66	64	63							76
77	74	73	71	69	67	65	63							77
78	75	73	71	69	67	65	63							78
79	75	73	71	70	68	66	64							79
80	75	73	72	70	68	66	64							80
<i>t</i>	60.0	60.5	70.0	70.5	80.0	80.5	90.0	90.5	100.0	100.5	110.0	110.5	120.0	<i>t</i>

Relative humidity, per cent.

<i>t</i> (Dry ther.)	Difference between the dry and wet thermometers (<i>t-t'</i>).													<i>t</i> (Dry ther.)			
	12° 0	12° 5	13° 0	13° 5	14° 0	14° 5	15° 0	15° 5	16° 0	16° 5	17° 0	17° 5	18° 0				
40	8	6	2														40
41	10	8	4	1													41
42	12	9	6	3													42
43	14	11	8	6	2												43
44	16	13	10	7	5	2											44
45	18	15	12	9	6	4	1										45
46	20	17	14	11	8	6	3										46
47	22	19	16	13	10	7	5	2									47
48	23	20	18	15	12	9	6	4	2								48
49	25	22	19	17	14	11	8	5	2	1							49
50	26	23	21	18	16	13	10	7	5	3	1						50
51	28	25	22	20	17	15	12	9	7	5	3						51
52	29	26	24	21	19	16	13	11	9	6	4	2					52
53	31	28	25	23	20	18	15	13	10	8	5	3					53
54	32	29	27	24	22	19	17	14	12	10	7	5	2				54
55	33	31	28	26	23	21	18	16	14	11	9	7	4				55
56	34	32	30	27	25	22	20	17	15	13	11	8	6				56
57	36	33	31	28	26	24	21	19	17	14	12	10	8				57
58	37	34	32	29	27	25	23	20	18	16	14	12	10				58
59	38	36	33	31	29	26	24	22	20	17	15	13	11				59
60	39	37	34	32	30	28	25	23	21	19	17	15	13				60
61	40	38	35	33	31	29	27	24	22	20	18	16	14				61
62	41	39	37	34	32	30	28	26	24	22	20	18	16				62
63	42	40	38	35	33	31	29	27	25	23	21	19	17				63
64	43	41	38	36	34	32	30	28	26	24	22	20	18				64
65	44	42	39	37	35	33	31	29	27	25	24	22	20				65
66	45	42	40	38	36	34	32	30	29	27	25	23	21				66
67	45	43	41	39	37	35	33	32	30	28	26	24	22				67
68	46	44	42	40	38	36	34	33	31	29	27	25	23				68
69	47	45	43	41	39	37	35	33	32	30	28	26	24				69
70	48	46	44	42	40	38	36	34	33	31	29	27	26				70
71	48	46	45	43	41	39	37	35	34	32	30	28	27				71
72	49	47	45	43	42	40	38	36	35	33	31	30	28				72
73	50	48	46	44	42	41	39	37	35	34	32	30	29				73
74	50	48	47	45	43	41	39	38	36	35	33	31	30				74
75	51	49	47	46	44	42	40	39	37	35	34	32	31				75
76	52	50	48	46	45	43	41	39	38	36	35	33	31				76
77	52	50	49	47	45	44	42	40	39	37	35	34	32				77
78	53	51	49	48	46	44	43	41	39	38	36	35	33				78
79	53	52	50	48	47	45	43	42	40	39	37	36	34				79
80	54	52	51	49	47	45	44	42	41	39	38	36	35				80
<i>t</i>	12° 0	12° 5	13° 0	13° 5	14° 0	14° 5	15° 0	15° 5	16° 0	16° 5	17° 0	17° 5	18° 0				<i>t</i>

Relative humidity, per cent.

t (Dry ther.)	Difference between the dry and wet thermometers ($t-t'$).												t (Dry ther.)	
	18 ^o .0	19 ^o .0	20 ^o .0	21 ^o .0	22 ^o .0	23 ^o .0	24 ^o .0	25 ^o .0	26 ^o .0	27 ^o .0	28 ^o .0	29 ^o .0		30 ^o .0
55														55
56	4	1												56
57	6	3												57
58	8	4												58
59	10	6	2											59
	11	8	4											
60		9	5	1										60
61	13	10	6	3										61
62	14	12	8	5	1									62
63	16	13	9	6	3									63
64	17	15	11	7	4	1								64
	18	15	11	7	4									
65		16	12	9	6	2								65
66	20	17	14	10	7	4	1							66
67	21	19	15	12	8	5	2							67
68	22	20	16	13	10	6	4	0						68
69	23	21	18	14	11	8	5	2						69
	24	21	18	14	11	8	5	2						
70		22	19	16	12	9	6	3	0					70
71	26	23	20	17	14	10	7	5	2					71
72	27	24	21	18	15	12	9	6	3	0				72
73	28	25	22	19	16	13	10	7	4	2				73
74	29	26	23	20	17	14	11	8	5	3	0			74
	30	26	23	20	17	14	11	8	5	3	0			
75		27	24	21	18	15	12	9	7	4	2			75
76	31	28	25	22	19	16	14	11	8	5	3	0		76
77	32	29	26	23	20	17	15	12	9	6	4	2		77
78	33	30	27	24	21	18	16	13	10	8	5	3	0	78
79	34	31	28	25	22	19	17	14	11	9	6	4	2	79
		31	28	25	22	19	17	14	11	9	6	4	2	
80		32	29	26	23	20	18	15	13	10	7	5	3	80
	35	32	29	26	23	20	18	15	13	10	7	5	3	
t	18 ^o .0	19 ^o .0	20 ^o .0	21 ^o .0	22 ^o .0	23 ^o .0	24 ^o .0	25 ^o .0	26 ^o .0	27 ^o .0	28 ^o .0	29 ^o .0	30 ^o .0	t

Relative humidity, per cent.

<i>t</i> (Dry ther.)	Difference between the dry and wet thermometers (<i>t-t'</i>).												<i>t</i> (Dry ther.)
	1° 0	2° 0	3° 0	4° 0	5° 0	6° 0	7° 0	8° 0	9° 0	10° 0	11° 0	12° 0	
80	96	92	87	83	79	75	72	68	64	61	57	54	80
81	96	92	88	84	80	76	72	68	65	61	58	54	81
82	96	92	88	84	80	76	72	69	65	62	58	55	82
83	96	92	88	84	80	76	73	69	66	62	59	55	83
84	96	92	88	84	80	77	73	69	66	63	59	56	84
85	96	92	88	84	80	77	73	70	66	63	60	56	85
86	96	92	88	84	81	77	73	70	67	63	60	57	86
87	96	92	88	84	81	77	74	70	67	64	60	57	87
88	96	92	88	85	81	77	74	71	67	64	61	58	88
89	96	92	88	85	81	78	74	71	68	64	61	58	89
90	96	92	88	85	81	78	75	71	68	65	62	59	90
91	96	92	89	85	82	78	75	71	68	65	62	59	91
92	96	92	89	85	82	78	75	72	69	65	62	59	92
93	96	93	89	85	82	78	75	72	69	66	63	60	93
94	96	93	89	86	82	79	75	72	69	66	63	60	94
95	96	93	89	86	82	79	76	72	69	66	63	60	95
96	96	93	89	86	82	79	76	73	70	67	64	61	96
97	96	93	89	86	82	79	76	73	70	67	64	61	97
98	96	93	89	86	83	79	76	73	70	67	64	61	98
99	96	93	89	86	83	80	76	73	70	68	65	62	99
100	97	93	90	86	83	80	77	74	71	68	65	62	100
101	97	93	90	86	83	80	77	74	71	68	65	62	101
102	97	93	90	86	83	80	77	74	71	68	65	63	102
103	97	93	90	87	83	80	77	74	71	69	66	63	103
104	97	93	90	87	83	80	77	74	71	69	66	63	104
105	97	93	90	87	84	81	78	75	72	69	66	64	105
106	97	93	90	87	84	81	78	75	72	69	66	64	106
107	97	93	90	87	84	81	78	75	72	69	67	64	107
108	97	93	90	87	84	81	78	75	72	70	67	64	108
109	97	93	90	87	84	81	78	75	73	70	67	65	109
110	97	94	90	87	84	81	78	76	73	70	67	65	110
111	97	94	90	87	84	81	78	76	73	70	68	65	111
112	97	94	90	87	84	82	79	76	73	71	68	65	112
113	97	94	90	87	85	82	79	76	73	71	68	66	113
114	97	94	91	88	85	82	79	76	74	71	68	66	114
115	97	94	91	88	85	82	79	76	74	71	69	66	115
116	97	94	91	88	85	82	79	76	74	71	69	66	116
117	97	94	91	88	85	82	79	77	74	71	69	66	117
118	97	94	91	88	85	82	79	77	74	72	69	67	118
119	97	94	91	88	85	82	80	77	74	72	69	67	119
120	97	94	91	88	85	83	80	77	75	72	70	67	120
121	97	94	91	88	84	83	80	77	75	72	70	67	121
122	97	94	91	88	85	83	80	77	75	72	70	67	122
123	97	94	91	88	85	83	80	78	75	73	70	68	123
124	97	94	91	88	85	83	80	78	75	73	70	68	124
125	97	94	91	88	86	83	80	78	75	73	70	68	125
126	97	94	91	88	86	83	80	78	75	73	71	68	126
127	97	94	91	89	86	83	81	78	75	73	71	68	127
128	97	94	91	89	86	83	81	78	76	73	71	68	128
129	97	94	91	89	86	83	81	78	76	73	71	69	129
130	97	94	91	89	86	83	81	78	76	74	71	69	130
131	97	94	92	89	86	84	81	79	76	74	71	69	131
132	97	94	92	89	86	84	81	79	76	74	72	69	132
133	97	94	92	89	86	84	81	79	76	74	72	69	133
134	97	94	92	89	86	84	81	79	76	74	72	70	134
135	97	94	92	89	86	84	81	79	77	74	72	70	135
136	97	94	92	89	87	84	82	79	77	74	72	70	136
137	97	94	92	89	87	84	82	79	77	74	72	70	137
138	97	95	92	89	87	84	82	79	77	74	73	70	138
139	97	95	92	89	87	84	82	79	77	75	73	70	139
140	97	95	92	89	87	84	82	79	77	75	73	71	140
<i>t</i>	1° 0	2° 0	3° 0	4° 0	5° 0	6° 0	7° 0	8° 0	9° 0	10° 0	11° 0	12° 0	<i>t</i>

Relative humidity, per cent.

<i>t</i> (Dry ther.)	Difference between the dry and wet thermometers (<i>t-t'</i>).													<i>t'</i> (Dry ther.)
	12° 0	13° 0	14° 0	15° 0	16° 0	17° 0	18° 0	19° 0	20° 0	21° 0	22° 0	23° 0	24° 0	
80	54	51	47	44	41	38	35	32	29	26	23	20	18	80
81	54	51	48	44	41	38	35	33	30	27	24	21	19	81
82	55	52	48	45	42	39	36	33	31	28	25	22	20	82
83	55	52	49	46	43	40	37	34	31	29	26	23	21	83
84	56	53	49	46	44	41	38	35	32	29	27	24	22	84
85	56	53	50	47	44	41	38	36	33	30	28	25	22	85
86	57	54	51	48	45	42	39	36	34	31	29	26	23	86
87	57	54	51	48	45	42	40	37	34	32	30	27	24	87
88	58	55	52	49	46	43	40	38	35	32	30	27	25	88
89	58	55	52	49	46	44	41	38	36	33	31	28	26	89
90	59	56	53	50	47	44	41	39	36	34	32	29	26	90
91	59	56	53	50	47	45	42	39	37	35	33	30	27	91
92	59	56	54	51	48	45	43	40	37	35	33	30	28	92
93	60	57	54	51	48	46	43	41	38	36	34	31	29	93
94	60	57	54	52	49	46	44	41	39	36	34	31	29	94
95	60	58	55	52	49	47	44	42	39	37	35	32	30	95
96	61	58	55	53	50	47	45	42	40	37	36	33	30	96
97	61	58	56	53	50	48	45	43	40	38	36	33	31	97
98	61	59	56	53	51	48	46	43	41	38	37	34	32	98
99	62	59	56	54	51	49	46	44	41	39	37	34	32	99
100	62	59	57	54	51	49	47	44	42	39	37	35	33	100
101	62	60	57	54	52	49	47	45	42	40	38	36	33	101
102	63	60	57	55	52	50	47	45	43	40	38	36	34	102
103	63	60	58	55	53	50	48	45	43	41	39	37	34	103
104	63	61	58	55	53	51	48	46	44	41	39	37	35	104
105	64	61	58	56	53	51	49	46	44	42	40	38	35	105
106	64	61	59	56	54	51	49	47	44	42	40	38	36	106
107	64	62	59	57	54	52	49	47	45	43	41	38	36	107
108	64	62	59	57	54	52	50	47	45	43	41	39	37	108
109	65	62	60	57	55	52	50	48	46	44	41	39	37	109
110	65	62	60	57	55	53	50	48	46	44	42	40	38	110
111	65	63	60	58	55	53	51	49	46	44	42	40	38	111
112	65	63	60	58	56	53	51	49	47	45	43	40	39	112
113	66	63	61	58	56	54	51	49	47	45	43	41	39	113
114	66	63	61	59	56	54	52	50	48	45	44	41	39	114
115	66	64	61	59	57	54	52	50	48	46	44	42	40	115
116	66	64	61	59	57	55	52	50	48	46	44	42	40	116
117	66	64	62	59	57	55	53	51	49	46	44	43	41	117
118	67	64	62	60	57	55	53	51	49	47	45	43	41	118
119	67	64	62	60	58	55	53	51	49	47	45	43	41	119
120	67	65	62	60	58	56	54	51	49	47	45	44	42	120
121	67	65	63	60	58	56	54	52	50	48	46	44	42	121
122	67	65	63	61	58	56	54	52	50	48	46	44	42	122
123	68	65	63	61	59	57	54	52	50	48	46	45	43	123
124	68	66	63	61	59	57	55	53	51	49	47	45	43	124
125	68	66	64	62	59	57	55	53	51	49	47	45	43	125
126	68	66	64	62	59	57	55	53	51	49	47	46	44	126
127	68	66	64	62	60	58	55	54	52	50	48	46	44	127
128	68	66	64	62	60	58	56	54	52	50	48	46	44	128
129	69	66	64	62	60	58	56	54	52	50	48	46	45	129
130	69	67	65	62	60	58	56	54	52	50	49	47	45	130
131	69	67	65	63	60	58	56	54	53	51	49	47	46	131
132	69	67	65	63	61	59	57	55	53	51	49	47	46	132
133	69	67	65	63	61	59	57	55	53	51	49	48	46	133
134	70	67	65	63	61	59	57	55	53	51	50	48	46	134
135	70	68	65	63	61	59	57	55	53	51	50	48	46	135
136	70	68	66	64	61	59	58	56	54	52	50	48	47	136
137	70	68	66	64	62	60	58	56	54	52	50	49	47	137
138	70	68	66	64	62	60	58	56	54	52	51	49	47	138
139	70	68	66	64	62	60	58	56	54	53	51	49	47	139
140	71	68	66	64	62	60	58	56	55	53	51	49	48	140
<i>t</i>	12° 0	13° 0	14° 0	15° 0	16° 0	17° 0	18° 0	19° 0	20° 0	21° 0	22° 0	23° 0	24° 0	<i>t</i>

Relative humidity, per cent.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').												t (Dry ther.)	
	24° 0	25° 0	26° 0	27° 0	28° 0	29° 0	30° 0	31° 0	32° 0	33° 0	34° 0	35° 0		36° 0
80	18	15	13	10	7	5	3	1						80
81	19	16	14	11	9	6	4	2						81
82	20	17	15	12	10	7	5	3	1					82
83	21	18	16	13	11	8	6	4	2					83
84	22	19	17	14	12	9	7	5	3	1				84
85	22	20	17	15	13	10	8	6	4	2				85
86	23	21	18	16	14	11	9	7	5	3	1			86
87	24	22	19	17	15	12	10	8	6	4	2			87
88	25	22	20	18	16	13	11	9	7	5	3	1		88
89	26	23	21	19	16	14	12	10	8	6	4	2	0	89
90	26	24	22	20	17	15	13	11	9	7	5	3	1	90
91	27	25	23	20	18	16	14	12	10	8	6	4	2	91
92	28	26	23	21	19	17	15	13	11	9	7	5	3	92
93	29	26	24	22	20	18	16	14	12	10	8	6	4	93
94	29	27	25	23	21	18	16	14	13	11	9	7	5	94
95	30	28	25	23	21	19	17	15	13	11	10	8	6	95
96	30	28	26	24	22	20	18	16	14	12	10	9	7	96
97	31	29	27	25	23	21	19	17	15	13	11	10	8	97
98	32	29	27	25	23	21	19	18	16	14	12	10	9	98
99	32	30	28	26	24	22	20	18	16	15	13	11	9	99
100	33	31	29	27	25	23	21	19	17	15	14	12	10	100
101	33	31	29	27	25	23	21	20	18	16	14	13	11	101
102	34	32	30	28	26	24	22	20	19	17	15	13	12	102
103	34	32	30	28	26	25	23	21	19	17	16	14	12	103
104	35	33	31	29	27	25	23	22	20	18	16	15	13	104
105	35	33	31	30	28	26	24	22	20	19	17	15	14	105
106	36	34	32	30	28	26	25	23	21	19	18	16	14	106
107	36	34	32	31	29	27	25	23	22	20	18	17	15	107
108	37	35	33	31	29	27	26	24	22	21	19	17	16	108
109	37	35	33	32	30	28	26	25	23	21	20	18	16	109
110	38	36	34	32	30	28	27	25	23	22	20	19	17	110
111	38	36	34	33	31	29	27	26	24	22	21	19	18	111
112	39	37	35	33	31	29	28	26	24	23	21	20	18	112
113	39	37	35	33	32	30	28	27	25	23	22	20	19	113
114	39	38	36	34	32	30	29	27	25	24	22	21	19	114
115	40	38	36	34	33	31	29	28	26	24	23	21	20	115
116	40	39	37	35	33	31	30	28	26	25	23	22	20	116
117	41	39	37	35	33	32	30	29	27	25	24	22	21	117
118	41	39	37	36	34	32	31	29	27	26	24	23	21	118
119	41	40	38	36	34	33	31	29	28	26	25	23	22	119
120	42	40	38	36	35	33	31	30	28	27	25	24	22	120
121	42	40	38	37	35	33	32	30	29	27	26	24	23	121
122	42	41	39	37	35	34	32	31	29	28	26	25	23	122
123	43	41	39	37	36	34	33	31	29	28	26	25	24	123
124	43	41	39	38	36	35	33	31	30	28	27	25	24	124
125	43	42	40	38	37	35	33	32	30	29	27	26	24	125
126	44	42	40	39	37	35	34	32	31	29	28	26	25	126
127	44	42	41	39	37	36	34	32	31	30	28	27	25	127
128	44	43	41	39	38	36	34	33	31	30	29	27	26	128
129	45	43	41	40	38	36	35	33	32	30	29	28	26	129
130	45	43	42	40	38	37	35	33	32	31	29	28	27	130
131	45	44	42	40	39	37	35	34	32	31	30	28	27	131
132	46	44	42	40	39	37	36	34	33	31	30	29	27	132
133	46	44	42	41	39	38	36	35	33	32	30	29	28	133
134	46	44	43	41	39	38	36	35	33	32	31	29	28	134
135	46	45	43	41	40	38	37	35	34	32	31	30	28	135
136	47	45	43	42	40	39	37	36	34	33	31	30	29	136
137	47	45	44	42	40	39	37	36	34	33	32	30	29	137
138	47	45	44	42	41	39	38	36	35	33	32	31	30	138
139	47	46	44	42	41	39	38	37	35	34	32	31	30	139
140	48	46	44	43	41	40	38	37	35	34	33	31	30	140

Relative humidity, per cent.

t (Dry ther.)	Difference between the dry and wet thermometers (t-t').												t (Dry ther.)	
	36°.0	37°.0	38°.0	39°.0	40°.0	41°.0	42°.0	43°.0	44°.0	45°.0	46°.0	47°.0		48°.0
89	0													89
90	1													90
91	2	1												91
92	3	2												92
93	4	2	1											93
94	5	3	2											94
95	6	4	3	1										95
96	7	5	3	2	0									96
97	8	6	4	3	1	1								97
98	9	7	5	4	2	1								98
99	9	8	5	5	3	1								99
100	10	9	7	5	4	2	1							100
101	11	9	8	6	5	3	2							101
102	12	10	9	7	5	4	2	1						102
103	12	11	9	8	6	4	2	1	1					103
104	13	12	10	8	7	5	3	2	1					104
105	14	12	11	9	8	6	5	4	2	1				105
106	14	13	11	10	8	7	6	4	3	0				106
107	15	14	12	11	9	8	6	5	4	3	1			107
108	16	14	13	11	10	9	7	6	4	3	2	1		108
109	16	15	13	12	10	9	8	6	5	4	3	1	0	109
110	17	15	14	13	11	10	8	7	6	5	4	2	1	110
111	18	16	15	13	12	10	9	8	7	5	4	3	1	111
112	18	17	15	14	12	11	10	8	7	6	5	4	2	112
113	19	17	16	14	13	12	10	9	8	7	5	4	3	113
114	19	18	16	15	14	12	11	10	8	7	6	5	4	114
115	20	18	17	16	14	13	12	10	9	8	7	5	4	115
116	20	19	17	16	15	13	12	11	10	8	7	6	5	116
117	21	19	18	17	15	14	13	11	10	9	8	7	6	117
118	21	20	18	17	16	15	13	12	11	10	8	7	6	118
119	22	20	19	18	16	15	14	12	11	10	9	8	7	119
120	22	21	19	18	17	16	14	13	12	11	10	9	8	120
121	23	21	20	18	17	16	15	13	12	11	10	9	8	121
122	23	22	20	19	18	17	15	14	13	12	11	10	9	122
123	24	22	21	19	18	17	16	14	13	12	11	10	9	123
124	24	23	21	20	19	18	16	15	14	13	12	11	9	124
125	24	23	22	20	19	18	17	15	14	13	12	11	10	125
126	25	23	22	21	20	19	17	16	15	14	13	12	10	126
127	25	24	23	21	20	19	18	16	15	14	13	12	11	127
128	26	24	23	22	21	19	18	17	16	15	14	13	11	128
129	26	25	24	22	21	20	19	17	16	15	14	13	12	129
130	27	25	24	23	21	20	19	18	17	16	15	14	12	130
131	27	26	24	23	22	21	19	18	17	16	15	14	13	131
132	27	26	25	23	22	21	20	19	18	16	15	14	13	132
133	28	26	25	24	23	21	20	19	18	17	16	15	14	133
134	28	27	25	24	23	22	21	19	18	17	16	15	14	134
135	28	27	26	24	23	22	21	20	19	18	17	16	15	135
136	29	27	26	25	24	22	21	20	19	18	17	16	15	136
137	29	28	26	25	24	23	22	20	19	18	17	16	15	137
138	29	28	27	25	24	23	22	21	20	19	18	17	16	138
139	30	28	27	26	25	24	22	21	20	19	18	17	16	139
140	30	29	28	26	25	24	23	22	21	20	18	17	16	140
t	36°.0	37°.0	38°.0	39°.0	40°.0	41°.0	42°.0	43°.0	44°.0	45°.0	46°.0	47°.0	48°.0	t

Vapor pressure, in inches.

Dry thermom-eter.	Vapor pressure.	Dry thermom-eter.	Vapor pressure.	Dry thermom-eter.	Vapor pressure.	Dry thermom-eter.	Vapor pressure.	Dry thermom-eter.	Vapor pressure.	Dry thermom-eter.	Vapor pressure.	Dry thermom-eter.	Vapor pressure.
—30	.0097	0	.045	30	.166	60	.517	90	1.408	120	3.425		
—29	.010	1	.047	31	.173	61	.536	91	1.453	121	3.522		
—28	.011	2	.049	32	.180	62	.555	92	1.499	122	3.621		
—27	.011	3	.052	33	.187	63	.575	93	1.546	123	3.723		
—26	.012	4	.054	34	.195	64	.585	94	1.595	124	3.827		
—25	.021	5	.057	35	.203	65	.616	95	1.645	125	3.933		
—24	.013	6	.059	36	.211	66	.638	96	1.696	126	4.042		
—23	.014	7	.062	37	.219	67	.661	97	1.749	127	4.154		
—22	.015	8	.065	38	.228	68	.684	98	1.803	128	4.268		
—21	.016	9	.068	39	.237	69	.707	99	1.859	129	4.385		
—20	.017	10	.071	40	.246	70	.732	100	1.916	130	4.504		
—19	.018	11	.074	41	.256	71	.757	101	1.975	131	4.627		
—18	.018	12	.078	42	.266	72	.783	102	2.035	132	4.752		
—17	.019	13	.081	43	.277	73	.810	103	2.097	133	4.880		
—16	.020	14	.085	44	.288	74	.838	104	2.160	134	5.011		
—15	.022	15	.088	45	.298	75	.866	105	2.225	135	5.145		
—14	.023	16	.092	46	.310	76	.896	106	2.292	136	5.282		
—13	.024	17	.096	47	.322	77	.926	107	2.360	137	5.422		
—12	.025	18	.101	48	.334	78	.957	108	2.431	138	5.565		
—11	.026	19	.105	49	.347	79	.989	109	2.502	139	5.712		
—10	.028	20	.110	50	.360	80	1.022	110	2.576	140	5.862		
—9	.029	21	.114	51	.373	81	1.056	111	2.652				
—8	.031	22	.119	52	.387	82	1.091	112	2.730				
—7	.032	23	.124	53	.402	83	1.127	113	2.810				
—6	.034	24	.130	54	.417	84	1.163	114	2.891				
—5	.035	25	.135	55	.432	85	1.202	115	2.975				
—4	.037	26	.141	56	.448	86	1.241	116	3.061				
—3	.039	27	.147	57	.465	87	1.281	117	3.149				
—2	.041	28	.153	58	.481	88	1.322	118	3.239				
—1	.043	29	.159	59	.499	89	1.364	119	3.331				

Vapor Pressure.

Correction of dew point for pressure.

$\frac{1}{P}$	30''.	29''.	28''.	27''.	26''.	25''.	24''.	23''.	22''.	21''.	20''.	19''.	18''.	$\frac{1}{P}$
1	.000	.000	+.001	+.001	+.001	+.002	+.002	+.003	+.003	+.003	+.004	+.004	+.004	1
2	.000	.000	.001	.002	.002	.003	.004	.005	.006	.007	.007	.008	.009	2
3	.001	.000	.001	.002	.003	.004	.006	.007	.008	.009	.010	.011	.012	3
4	.001	.000	.002	.003	.005	.006	.008	.009	.011	.012	.014	.015	.017	4
5	.001	+.001	.002	.004	.006	.008	.010	.012	.014	.015	.017	.019	.021	5
6	.001	.001	.003	.005	.008	.010	.012	.014	.016	.019	.021	.023	.025	6
7	.001	.001	.003	.006	.009	.012	.014	.017	.019	.022	.024	.027	.030	7
8	.001	.001	.004	.007	.010	.013	.016	.019	.022	.025	.028	.031	.034	8
9	.001	.002	.005	.008	.012	.015	.018	.022	.025	.028	.032	.035	.038	9
10	.002	.002	.005	.009	.013	.017	.020	.024	.027	.031	.035	.039	.043	10
11	.002	.002	.006	.010	.014	.018	.022	.026	.031	.035	.039	.043	.047	11
12	.003	.002	.006	.011	.015	.019	.024	.028	.032	.037	.041	.046	.050	12
13	.003	.002	.006	.010	.016	.021	.026	.030	.035	.040	.045	.050	.055	13
14	.004	.002	.007	.012	.017	.022	.028	.033	.038	.043	.048	.054	.059	14
15	.004	.002	.007	.013	.019	.024	.030	.035	.041	.046	.052	.058	.063	15
16	.004	.002	.008	.014	.020	.026	.032	.038	.044	.049	.055	.061	.067	16
17	.004	.002	.008	.015	.021	.027	.034	.040	.046	.053	.059	.065	.072	17
18	.004	.002	.009	.016	.022	.029	.036	.042	.049	.056	.062	.069	.076	18
19	.005	.002	.009	.017	.024	.031	.038	.045	.052	.059	.066	.073	.080	19
20	.005	.003	.010	.018	.026	.033	.041	.048	.055	.063	.070	.078	.085	20
21	.005	.003	.011	.019	.027	.034	.042	.050	.057	.066	.073	.081	.089	21
22	.005	.003	.011	.020	.028	.036	.044	.052	.061	.069	.077	.085	.093	22
23	.005	.003	.012	.021	.029	.038	.046	.055	.063	.072	.081	.089	.098	23
24	.005	.004	.013	.021	.030	.039	.048	.057	.066	.075	.084	.093	.102	24
25	.006	.004	.013	.022	.032	.041	.050	.060	.069	.078	.088	.097	.106	25
26	.006	.004	.013	.023	.033	.043	.052	.062	.072	.081	.091	.101	.111	26
27	.006	.004	.014	.024	.034	.044	.054	.065	.075	.085	.095	.105	.115	27
28	.006	.004	.015	.025	.036	.046	.056	.067	.077	.088	.098	.109	.119	28
29	.007	.004	.015	.026	.037	.048	.059	.069	.080	.091	.102	.113	.124	29
30	.007	.004	.016	.027	.038	.049	.061	.072	.083	.094	.105	.117	.128	30
31	.007	.005	.016	.028	.039	.051	.063	.074	.086	.097	.109	.121	.132	31
32	.007	.005	.017	.029	.041	.053	.065	.077	.089	.101	.113	.125	.137	32
33	.007	.005	.017	.030	.042	.054	.067	.079	.092	.104	.116	.129	.141	33
34	.008	.005	.018	.031	.043	.056	.069	.082	.094	.107	.120	.133	.145	34
35	.008	.005	.018	.032	.045	.058	.071	.084	.097	.110	.123	.137	.150	35
36	.008	.005	.019	.032	.046	.059	.073	.086	.100	.114	.127	.141	.154	36
37	.008	.006	.019	.033	.047	.061	.075	.089	.103	.117	.131	.145	.158	37
38	.009	.006	.020	.034	.049	.063	.077	.091	.106	.120	.134	.149	.163	38
39	.009	.006	.021	.035	.050	.065	.079	.094	.109	.123	.138	.153	.167	39
40	.009	.006	.021	.036	.051	.066	.081	.096	.111	.126	.142	.157	.172	40

Dew point
Pressure
Correction.