

HYGROMETRIC TABLES

(700 mbs)

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INTRODUCTION

The most convenient method of determining the humidity of the air for meteorological purposes is by the use of wet and dry thermometers.

August's modification of Regnault's formula for deriving the vapour pressure, which has been in use in the India Meteorological Department from 1876, (with temperatures in °C instead of °F) is as follows:

For temperature of the Wet Bulb below 0°C

$$x = f' - \frac{0.480(T-T')}{671-T'} \times p$$

For temperature of Wet Bulb above 0°C

$$x = f' - \frac{0.480(T-T')}{610-T'} \times p$$

where x = pressure of vapour present in the air
 f' = saturation vapour pressure at temperature T' °C of the Wet Bulb
 T = Temperature of the Dry Bulb in °C
 T' = Temperature of the Wet Bulb in °C
 p = pressure of air.

It is well known that the readings of the Wet Bulb thermometer depend not only on the humidity but also on the strength of the wind which flows past the bulb, so that, at a particular humidity of air, the depression of Wet Bulb below the Dry Bulb is less in still air than when the air is in movement. For temperatures of Wet Bulb higher than 0°C, Pernter modified Regnault's equation so as to correspond to (i) calm, (ii) light wind and (iii) strong wind. Under the conditions of exposure obtaining in a Stevenson Screen, the velocity of air past the Wet Bulb generally comes under 'light wind'. Pernter's modification of Regnault's formula for 'light wind' conditions almost exactly agrees with August's formula referred to earlier in this introduction. August's equation has, therefore, been used in the India Meteorological Department for a long time for calculating the hygrometric tables.

It must be remembered that these tables are strictly applicable only when the thermometers are in a Stevenson Screen or are exposed

to a gentle breeze at the time of observation. They are not to be used with any form of artificially ventilated psychrometers.

The relative humidity is given by the equation

$$U = \frac{x}{f} \times 100$$

where U = relative humidity

f = saturation vapour pressure at temperature T °C of the Dry Bulb.

The Dew Point temperature is the temperature to which the air should be cooled in order just to cause condensation, or the temperature at which the saturation vapour pressure is equal to the pressure of the vapour present in the air.

In the Hygrometric Tables published by the India Meteorological Department in 1949, the two arguments used viz., the Dry Bulb temperature and the depression of the Wet Bulb, as also the Dew Point temperatures were given in °F. With the adoption of the metric system of units in the India Meteorological Department and the supply of thermometers reading directly in °C to observatories, it has become necessary to provide the observers with tables in which the temperatures appear in °C instead of in °F. The tables published in 1949 have been recast accordingly and brought out in this Revised Edition.

In this edition of the Tables, Dew Point temperatures are given in addition to Relative Humidity values as in the previous edition. The following important modifications should, however, be noted:

- 1) The Dry Bulb and Wet Bulb temperatures, instead of Dry Bulb and depression of the Wet Bulb, form the two arguments of the tables,
- 2) Values have been provided in steps of 0.2°C both in the Dry and Wet Bulb temperatures, as against 1°F for Dry Bulb and 0.5°F for depression of Wet Bulb in the previous edition.

The tables provide for ranges of Dry Bulb temperature from -24.0 to 30°C and Wet Bulb temperatures -24°C to 16°C. The values of the saturation vapour pressure used are those given in tables 94 and 96 of the Smithsonian Met. Tables, sixth revised edition 1951.

(Contd.)

Wet Bulb below the Freezing Point

When the Wet Bulb temperature falls below the freezing point it may be either covered with ice or with supercooled water. Alternative tables have been provided for use in either contingency.

For use when the Wet Bulb is covered with ice, a table is given for the range of Wet Bulb temperature -24°C to 0°C . In calculating the Relative Humidity in this table the saturation vapour pressure over ice has been used as the standard of reference for Dry Bulb temperature below 0°C . The Dew Point in this table is the temperature at which the saturation vapour pressure over ice is equal to the actual vapour present in the air. This temperature is the hoar frost point.

For use when the Wet Bulb is covered with supercooled water, the main table has been extended down to a Wet Bulb temperature of -24°C , the vapour pressure over supercooled water being used as the standard of reference for calculating Relative Humidity. Dew Point temperatures below 0°C in the main table represent the temperature at which the saturation vapour pressure over supercooled water is equal to the actual vapour pressure.

INSTRUCTIONS FOR USING THE TABLES

The tables are calculated for a pressure of 700 mbs. and are meant for use at stations whose heights above mean sea level are above 9,000 feet (2743.2 metres).

Dew Point temperatures and Relative Humidities corresponding to specified values of Dry Bulb and Wet Bulb temperatures, at intervals of 0.2°C , are printed at the top of each page. The Dew Point temperatures are given on the left side and Relative Humidities on the right side on each page.

The different ranges of Wet Bulb and Dry Bulb temperatures occurring on one and the same page have been clearly divided by suitable headings. The tables can be entered directly with readings of Dry Bulb and Wet Bulb temperatures, depression of the Wet Bulb need not be separately calculated for using the tables.

In order to find the Relative Humidity or the Dew Point turn to the page which contains the values of the Wet Bulb temperature and

Dry Bulb temperature for which either of these is required. (In both cases, the values can be read off directly from the body of the tables, if the temperatures are the actual values contained there. Otherwise interpolation should be made to the nearest 0.1°C in both cases). It should be remembered that both the Dry Bulb and Wet Bulb readings should be corrected for instrumental errors before using the tables.

The Dew Point and Relative Humidity from the values of Dry Bulb and Wet Bulb temperatures can be read directly from the tables when the decimal in the Dry Bulb and Wet Bulb are even numbers. When one or both of them are odd the values can be got by simple interpolation of values on either side.

The following examples are given for completeness:

S. No.	Dry Bulb in $^{\circ}\text{C}$	Wet Bulb in $^{\circ}\text{C}$	Page No.	Dew Point in $^{\circ}\text{C}$	Relative Humidity (%)	Remarks
1	14.8	10.4	55	7.2	60	
2	22.1	11.8	56	3.9	31	By interpolation of D.B.
3	15.6	8.9	51	3.1	43	By interpolation of W.B.
4	5.3	1.3	39	-4.1	51	By interpolation of both D.B. and W.B.

When Wet Bulb is covered with ice

1	-10.6	-12.8	9	-21.0	38	
2	-6.3	-8.2	11	-12.3	59	By interpolation of D.B.
3	+0.2	-4.5	15	-13.7	30	By interpolation of W.B.
4	-2.7	-4.9	15	-8.5	61	By interpolation of both D.B. and W.B.

Table for use when Wet Bulb is covered with Ice

Wet Bulb -24.0 to -22.2
Dry Bulb -24.0 to -20.6
Dew Point °C

Relative Humidity (%)

Dry Bulb °C	Wet Bulb °C					Wet Bulb °C				
	-24.0	-23.8	-23.6	-23.4	-23.2	-24.0	-23.8	-23.6	-23.4	-23.2
-24.0	-24.0					100				
-23.8	-25.5	-23.8				84	100			
-23.6	-27.1	-25.2	-23.6			70	85	100		
-23.4	-29.3	-26.9	-25.0	-23.4		55	70	85	100	
-23.2	-31.9	-29.0	-26.8	-24.9	-23.2	41	56	70	85	100
-23.0	-35.6	-31.3	-28.6	-26.4	-24.6	27	43	57	71	85
-22.8	-40.6	-34.7	-31.1	-28.4	-26.2	15	29	43	57	71
-22.6	-55.3	-39.9	-34.3	-30.8	-27.9	2	16	30	44	59
-22.4		-49.9	-38.6	-33.6	-30.3		5	18	32	45
-22.2			-48.0	-38.0	-33.2			6	19	32
-22.0				-46.5	-37.0				7	21
-21.8					-44.1					9

Dry Bulb °C	Wet Bulb °C					Wet Bulb °C				
	-23.0	-22.8	-22.6	-22.4	-22.2	-23.0	-22.8	-22.6	-22.4	-22.2
-23.0	-23.0					100				
-22.8	-24.4	-22.8				85	100			
-22.6	-25.9	-24.1	-22.6			72	86	100		
-22.4	-27.7	-25.7	-24.0	-22.4		59	72	86	100	
-22.2	-30.0	-27.3	-25.4	-23.7	-22.2	46	60	73	86	100
-22.0	-32.6	-29.5	-27.1	-25.2	-23.4	34	47	60	73	87
-21.8	-36.5	-32.2	-29.3	-26.8	-24.9	22	35	47	61	74
-21.6	-43.1	-35.6	-31.6	-28.8	-26.6	10	24	36	49	61
-21.4		-41.4	-35.1	-31.3	-28.4		12	24	37	50
-21.2			-60.6	-40.6	-34.3		1	13	26	38
-21.0				-52.2	-39.2			3	15	27
-20.8					-49.9				4	17
-20.6					-46.5					6

Wet Bulb -22.0 to -20.2
Dry Bulb -22.0 to -18.2
Dew Point °C

Relative Humidity (%)

Dry Bulb °C	Wet Bulb °C					Wet Bulb °C				
	-22.0	-21.8	-21.6	-21.4	-21.2	-22.0	-21.8	-21.6	-21.4	-21.2
-22.0	-22.0					100				
-21.8	-23.3	-21.8				87	100			
-21.6	-24.6	-23.0	-21.6			75	87	100		
-21.4	-26.2	-24.4	-22.8	-21.4		62	74	88	100	
-21.2	-28.1	-25.9	-24.1	-22.6	-21.2	50	63	75	87	100
-21.0	-30.3	-27.7	-25.7	-23.8	-22.4	39	51	63	75	88
-20.8	-33.2	-30.0	-27.3	-25.4	-23.7	28	40	52	64	75
-20.6	-37.5	-32.9	-29.5	-27.1	-25.0	17	29	41	52	65
-20.4	-45.2	-36.5	-32.2	-29.0	-26.8	7	19	30	42	53
-20.2		-43.1	-36.0	-31.6	-28.8		9	20	32	42
-20.0			-41.4	-35.1	-31.1				11	21
-19.8			-60.6	-40.6	-34.3				1	11
-19.6				-52.2	-39.2					3
-19.4					-48.0					5

Dry Bulb °C	Wet Bulb °C					Wet Bulb °C				
	-21.0	-20.8	-20.6	-20.4	-20.2	-21.0	-20.8	-20.6	-20.4	-20.2
-21.0	-21.0					100				
-20.8	-22.1	-20.8				88	100			
-20.6	-23.4	-21.9	-20.6			76	88	100		
-20.4	-24.7	-23.1	-21.6	-20.4		65	77	89	100	
-20.2	-26.4	-24.6	-22.9	-21.4	-20.2	54	65	77	89	100
-20.0	-28.4	-26.0	-24.3	-22.6	-21.3	44	55	66	78	88
-19.8	-30.8	-27.9	-25.7	-24.0	-22.4	33	45	56	67	78
-19.6	-33.6	-30.3	-27.5	-25.5	-23.7	24	35	46	56	67
-19.4	-38.0	-32.9	-29.7	-27.1	-25.2	15	26	36	47	57
-19.2	-46.5	-37.0	-32.6	-29.3	-26.8	5	16	26	37	48
-19.0		-44.1	-36.0	-31.9	-28.8		7	18	27	38
-18.8			-42.2	-35.1	-31.3			9	19	29
-18.6				-40.6	-34.7				10	20
-18.4					-55.3				2	12
-18.2										3

Wet Bulb -20.0 to -18.2
Dry Bulb -20.0 to -15.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-20.0	-19.8	-19.6	-19.4	-19.2	-19.0	-18.8	-18.6	-18.4	-18.2
-20.0	-20.0									
-19.8	-21.1	-19.8								
-19.6	-22.1	-20.9	-19.6							
-19.4	-23.4	-21.9	-20.6	-19.4						
-19.2	-24.9	-23.1	-21.6	-20.4	-19.2					
-19.0	-26.4	-24.6	-22.9	-21.4	-20.1	-19.0				
-18.8	-28.4	-26.0	-24.3	-22.6	-21.2	-19.9	-18.8			
-18.6	-30.8	-27.9	-25.7	-24.0	-22.4	-21.0	-19.7	-18.6		
-18.4	-34.0	-30.3	-27.5	-25.4	-23.7	-22.1	-20.7	-19.5	-18.4	
-18.2	-38.0	-33.2	-29.7	-27.1	-25.0	-23.3	-21.9	-20.5	-19.3	-18.2
-18.0	-46.5	-37.0	-32.6	-29.3	-26.8	-24.7	-23.0	-21.5	-20.2	-19.0
-17.8		-44.1	-36.0	-31.9	-28.8	-26.4	-24.4	-22.8	-21.3	-20.0
-17.6			-42.2	-35.1	-31.1	-28.4	-26.0	-24.1	-22.5	-21.1
-17.4				-40.6	-34.3	-30.5	-27.7	-25.7	-23.8	-22.2
-17.2				-55.3	-39.2	-33.6	-30.0	-27.3	-25.2	-23.4
-17.0					-49.9	-38.0	-32.9	-29.5	-26.9	-24.9
-16.8						-46.5	-37.0	-32.2	-29.0	-26.6
-16.6							-43.1	-36.0	-31.6	-28.4
-16.4								-41.4	-34.7	-30.8
-16.2								-60.6	-39.9	-34.0
-16.0									-52.2	-38.6
-15.8										-48.0

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-20.0	-19.8	-19.6	-19.4	-19.2	-19.0	-18.8	-18.6	-18.4	-18.2
-20.0	100									
-19.8	88	100								
-19.6	78	89	100							
-19.4	68	79	89	100						
-19.2	57	68	79	89	100					
-19.0	48	58	69	79	90	100				
-18.8	39	49	59	69	80	90	100			
-18.6	30	40	50	59	70	80	90	100		
-18.4	21	31	41	51	60	70	80	90	100	
-18.2	13	22	32	42	51	61	70	80	90	100
-18.0	5	14	23	33	42	52	62	71	81	91
-17.8		6	16	24	34	43	53	62	72	81
-17.6			8	17	26	35	44	53	62	72
-17.4				9	18	27	36	45	54	63
-17.2				1	10	19	28	37	46	55
-17.0					3	12	20	29	38	47
-16.8						4	13	21	30	39
-16.6							6	14	22	32
-16.4								8	16	24
-16.2								1	9	17
-16.0									2	10
-15.8										3

Wet Bulb -18.0 to -16.2
Dry Bulb -18.0 to -13.4

Dew Point °C

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-18.0	-17.8	-17.6	-17.4	-17.2	-17.0	-16.8	-16.6	-16.4	-16.2
-18.0	-18.0									
-17.8	-18.9	-17.8								
-17.6	-19.8	-18.7	-17.6							
-17.4	-20.7	-19.5	-18.4	-17.4						
-17.2	-21.9	-20.5	-19.3	-18.2	-17.2					
-17.0	-23.1	-21.6	-20.3	-19.1	-18.0	-17.0				
-16.8	-24.6	-22.9	-21.3	-20.0	-18.9	-17.8	-16.8			
-16.6	-26.0	-24.1	-22.5	-21.1	-19.8	-18.6	-17.6	-16.6		
-16.4	-27.9	-25.7	-23.8	-22.2	-20.9	-19.5	-18.4	-17.3	-16.4	
-16.2	-30.3	-27.5	-25.4	-23.6	-21.9	-20.5	-19.3	-18.2	-17.2	-16.2
-16.0	-33.2	-29.7	-26.9	-24.9	-23.1	-21.6	-20.2	-19.0	-17.9	-16.9
-15.8	-37.0	-32.2	-29.0	-26.6	-24.6	-22.9	-21.3	-20.0	-18.8	-17.7
-15.6	-44.1	-36.0	-31.6	-28.6	-26.2	-24.1	-22.5	-21.0	-19.7	-18.6
-15.4		-42.2	-35.1	-31.1	-27.9	-25.7	-23.8	-22.1	-20.7	-19.4
-15.2			-39.9	-34.0	-30.3	-27.5	-25.2	-23.4	-21.9	-20.4
-15.0			-52.2	-38.6	-33.2	-29.7	-26.9	-24.9	-23.0	-21.5
-14.8				-48.0	-37.5	-32.2	-29.0	-26.6	-24.4	-22.8
-14.6					-44.1	-36.0	-31.6	-28.4	-26.0	-24.0
-14.4						-42.2	-35.1	-30.8	-27.9	-25.5
-14.2							-39.9	-34.0	-30.0	-27.3
-14.0								-52.2	-38.6	-32.9
-13.8									-46.5	-37.0
-13.6										-44.1
-13.4										-41.4
-13.2										-60.6

Dry Bulb °C	Wet Bulb °C									
	-18.0	-17.8	-17.6	-17.4	-17.2	-17.0	-16.8	-16.6	-16.4	-16.2
-18.0	100									
-17.8	90	100								
-17.6	81	90	100							
-17.4	73	82	91	100						
-17.2	64	73	82	91	100					
-17.0	55	64	73	82	91	100				
-16.8	47	56	65	74	82	91	100			
-16.6	40	48	57	65	74	83	91	100		
-16.4	32	41	49	57	65	74	83	91	100	
-16.2	25	33	41	49	58	66	74	83	91	100
-16.0	18	26	35	42	50	58	67	75	84	92
-15.8	12	20	27	35	43	51	59	67	76	83
-15.6	5	13	20	28	36	44	52	60	68	76
-15.4		6	14	21	30	37	45	53	60	68
-15.2			8	15	23	30	38	46	53	61
-15.0			2	9	16	24	31	39	47	54
-14.8				3	10	18	25	32	40	47
-14.6					5	12	19	26	33	41
-14.4						6	13	20	27	34
-14.2							7	14	21	28
-14.0								2	8	15
-13.8									3	10
-13.6										4
-13.4										6
-13.2										1

Wet Bulb -16.0 to -14.2
 Dry Bulb -16.0 to -10.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-16.0	-15.8	-15.6	-15.4	-15.2	-15.0	-14.8	-14.6	-14.4	-14.2
-16.0	-16.0									
-15.8	-16.7	-15.8								
-15.6	-17.5	-16.5	-15.6							
-15.4	-18.3	-17.2	-16.3	-15.4						
-15.2	-19.2	-18.1	-17.0	-16.1	-15.2					
-15.0	-20.1	-19.0	-17.8	-16.8	-15.9	-15.0				
-14.8	-21.2	-19.9	-18.7	-17.6	-16.6	-15.7	-14.8			
-14.6	-22.4	-20.9	-19.6	-18.4	-17.3	-16.3	-15.4	-14.6		
-14.4	-23.7	-22.0	-20.6	-19.3	-18.2	-17.1	-16.1	-15.2	-14.4	
-14.2	-25.0	-23.3	-21.6	-20.3	-19.0	-17.9	-16.9	-15.9	-15.0	-14.2
-14.0	-26.8	-24.7	-22.9	-21.3	-20.0	-18.8	-17.7	-16.6	-15.7	-14.8
-13.8	-28.8	-26.2	-24.3	-22.5	-21.0	-19.7	-18.5	-17.4	-16.4	-15.5
-13.6	-31.3	-28.1	-25.9	-23.8	-22.1	-20.6	-19.3	-18.2	-17.2	-16.2
-13.4	-34.7	-30.5	-27.5	-25.4	-23.4	-21.8	-20.3	-19.0	-17.9	-16.9
-13.2	-39.2	-33.6	-29.7	-26.9	-24.9	-23.0	-21.4	-20.0	-18.8	-17.7
-13.0	-49.9	-38.0	-32.6	-29.0	-26.6	-24.4	-22.6	-21.1	-19.7	-18.5
-12.8		-45.2	-36.5	-31.6	-28.4	-26.0	-24.0	-22.2	-20.7	-19.4
-12.6			-43.1	-35.1	-30.8	-27.7	-25.4	-23.6	-21.9	-20.4
-12.4				-40.6	-34.0	-30.0	-27.1	-24.9	-23.0	-21.4
-12.2				-52.2	-38.6	-32.9	-29.3	-26.6	-24.4	-22.6
-12.0					-48.0	-37.0	-31.9	-28.6	-26.0	-24.0
-11.8						-44.1	-35.6	-31.1	-27.9	-25.5
-11.6							-40.6	-34.3	-30.3	-27.3
-11.4							-55.3	-38.6	-32.9	-29.5
-11.2								-48.0	-37.0	-31.9
-11.0									-44.1	-35.6
-10.8										-41.4
-10.6										-60.6

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-16.0	-15.8	-15.6	-15.4	-15.2	-15.0	-14.8	-14.6	-14.4	-14.2
-16.0	100									
-15.8	92	100								
-15.6	84	92	100							
-15.4	76	84	92	100						
-15.2	68	76	84	92	100					
-15.0	62	69	77	85	92	100				
-14.8	55	62	70	77	85	92	100			
-14.6	48	55	62	70	78	85	93	100		
-14.4	41	49	56	63	70	78	85	93	100	
-14.2	35	42	49	56	64	71	78	85	93	100
-14.0	29	36	43	50	57	64	71	78	86	93
-13.8	23	30	37	44	51	57	65	72	79	86
-13.6	18	24	31	38	45	52	59	65	72	79
-13.4	12	19	26	32	39	45	52	59	66	73
-13.2	7	13	20	27	33	40	46	53	60	66
-13.0	2	8	15	21	27	34	40	47	53	60
-12.8		3	9	16	22	28	35	41	48	54
-12.6			4	11	17	23	30	35	42	48
-12.4				6	12	18	24	31	37	43
-12.2				1	7	13	19	25	31	38
-12.0					2	8	14	20	26	32
-11.8						4	9	15	21	27
-11.6							5	11	16	22
-11.4								7	12	17
-11.2									8	13
-11.0										9
-10.8										5
-10.6										

Wet Bulb -14.0 to -12.2
Dry Bulb -14.0 to -8.0

Dew Point °C

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-14.0	-13.8	-13.6	-13.4	-13.2	-13.0	-12.8	-12.6	-12.4	-12.2
-14.0	-14.0									
-13.8	-14.6	-13.8								
-13.6	-15.3	-14.4	-13.6							
-13.4	-15.9	-15.0	-14.2	-13.4						
-13.2	-16.6	-15.7	-14.8	-14.0	-13.2					
-13.0	-17.4	-16.4	-15.5	-14.6	-13.8	-13.0				
-12.8	-18.2	-17.2	-16.1	-15.2	-14.4	-13.5	-12.8			
-12.6	-19.1	-17.9	-16.9	-15.9	-15.0	-14.1	-13.4	-12.6		
-12.4	-20.0	-18.8	-17.7	-16.6	-15.6	-14.8	-13.9	-13.1	-12.4	
-12.2	-21.1	-19.7	-18.5	-17.4	-16.3	-15.4	-14.5	-13.7	-12.9	-12.2
-12.0	-22.2	-20.7	-19.4	-18.2	-17.1	-16.1	-15.1	-14.3	-13.5	-12.7
-11.8	-23.6	-21.9	-20.4	-19.0	-17.9	-16.9	-15.8	-14.9	-14.1	-13.2
-11.6	-25.0	-23.1	-21.4	-20.0	-18.8	-17.6	-16.6	-15.5	-14.7	-13.8
-11.4	-26.6	-24.4	-22.6	-21.1	-19.7	-18.4	-17.3	-16.3	-15.3	-14.4
-11.2	-28.6	-26.0	-24.0	-22.2	-20.6	-19.3	-18.2	-17.0	-16.0	-15.1
-11.0	-31.1	-27.9	-25.5	-23.6	-21.8	-20.3	-19.0	-17.8	-16.7	-15.8
-10.8	-34.3	-30.3	-27.3	-24.9	-23.0	-21.4	-19.9	-18.7	-17.5	-16.5
-10.6	-39.2	-33.2	-29.3	-26.6	-24.4	-22.5	-21.0	-19.6	-18.3	-17.2
-10.4	-48.0	-37.0	-31.9	-28.6	-26.0	-23.8	-22.1	-20.5	-19.2	-18.0
-10.2		-44.1	-35.6	-31.1	-27.9	-25.4	-23.4	-21.6	-20.2	-18.9
-10.0			-41.4	-34.3	-30.0	-27.1	-24.9	-22.9	-21.3	-19.8
-9.8			-60.6	-38.6	-32.9	-29.3	-26.4	-24.3	-22.4	-20.9
-9.6				-48.0	-37.0	-31.9	-28.4	-25.9	-23.7	-22.0
-9.4					-44.1	-35.1	-30.8	-27.7	-25.2	-23.1
-9.2						-40.6	-34.0	-29.7	-26.9	-24.6
-9.0						-55.3	-38.6	-32.6	-29.0	-26.2
-8.8							-48.0	-36.5	-31.6	-28.1
-8.6								-43.1	-34.7	-30.5
-8.4									-39.9	-33.6
-8.2									-52.2	-37.5
-8.0										-45.2

Dry Bulb °C	Wet Bulb °C									
	-14.0	-13.8	-13.6	-13.4	-13.2	-13.0	-12.8	-12.6	-12.4	-12.2
-14.0	100									
-13.8	93	100								
-13.6	86	93	100							
-13.4	79	86	93	100						
-13.2	73	80	86	93	100					
-13.0	67	73	80	87	93	100				
-12.8	60	67	74	80	87	93	100			
-12.6	54	61	68	74	80	87	93	100		
-12.4	49	55	62	68	74	81	87	94	100	
-12.2	44	50	56	62	68	75	81	87	94	100
-12.0	38	44	50	57	63	69	75	81	87	94
-11.8	33	39	45	51	57	63	69	75	81	88
-11.6	28	34	40	46	52	58	64	70	76	82
-11.4	24	29	35	41	46	52	58	64	70	76
-11.2	19	24	30	36	42	47	53	59	64	70
-11.0	14	20	25	31	37	42	48	53	59	65
-10.8	10	15	21	26	32	37	43	48	54	60
-10.6	6	11	17	22	27	33	38	43	49	55
-10.4	2	7	12	18	23	28	34	39	44	50
-10.2		3	8	13	18	24	29	34	40	45
-10.0			4	9	15	20	25	30	35	40
-9.8				6	11	16	21	26	31	36
-9.6				2	7	12	17	22	27	32
-9.4					3	8	13	18	23	28
-9.2						4	9	14	19	24
-9.0						1	5	10	15	20
-8.8							2	7	11	16
-8.6								3	8	12
-8.4									4	9
-8.2									1	6
-8.0										2

Wet Bulb -12.0 to -10.2
 Dry Bulb -12.0 to -6.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-12.0	-12.0									
-11.8	-12.5	-11.8								
-11.6	-13.0	-12.3	-11.6							
-11.4	-13.6	-12.9	-12.1	-11.4						
-11.2	-14.2	-13.4	-12.6	-11.9	-11.2					
-11.0	-14.8	-13.9	-13.1	-12.4	-11.7	-11.0				
-10.8	-15.5	-14.6	-13.7	-12.9	-12.2	-11.5	-10.8			
-10.6	-16.2	-15.2	-14.3	-13.5	-12.7	-12.0	-11.3	-10.6		
-10.4	-16.9	-15.9	-14.9	-14.1	-13.2	-12.5	-11.8	-11.1	-10.4	
-10.2	-17.7	-16.6	-15.6	-14.7	-13.8	-13.0	-12.3	-11.6	-10.8	-10.2
-10.0	-18.5	-17.3	-16.3	-15.3	-14.4	-13.6	-12.8	-12.0	-11.3	-10.7
-9.8	-19.4	-18.2	-17.0	-16.0	-15.1	-14.2	-13.3	-12.5	-11.8	-11.1
-9.6	-20.4	-19.0	-17.8	-16.7	-15.7	-14.8	-13.9	-13.1	-12.3	-11.6
-9.4	-21.5	-20.0	-18.7	-17.5	-16.4	-15.4	-14.5	-13.6	-12.9	-12.1
-9.2	-22.8	-21.1	-19.6	-18.3	-17.2	-16.1	-15.1	-14.3	-13.4	-12.6
-9.0	-24.0	-22.2	-20.6	-19.2	-18.0	-16.9	-15.8	-14.9	-13.9	-13.1
-8.8	-25.5	-23.6	-21.8	-20.2	-18.9	-17.7	-16.6	-15.5	-14.6	-13.7
-8.6	-27.3	-24.9	-23.0	-21.3	-19.8	-18.5	-17.3	-16.2	-15.2	-14.3
-8.4	-29.5	-26.6	-24.3	-22.5	-20.9	-19.4	-18.1	-16.9	-15.9	-14.9
-8.2	-32.2	-28.6	-25.9	-23.7	-21.9	-20.3	-19.0	-17.7	-16.6	-15.6
-8.0	-36.0	-31.1	-27.7	-25.2	-23.1	-21.4	-19.9	-18.6	-17.4	-16.3
-7.8	-41.4	-34.3	-30.0	-26.9	-24.6	-22.6	-21.0	-19.5	-18.2	-17.0
-7.6	-60.6	-39.2	-32.9	-29.0	-26.2	-24.0	-22.1	-20.5	-19.0	-17.8
-7.4		-48.0	-37.0	-31.6	-28.1	-25.5	-23.4	-21.6	-20.0	-18.7
-7.2			-43.1	-35.1	-30.5	-27.3	-24.9	-22.8	-21.1	-19.6
-7.0				-39.9	-33.2	-29.3	-26.4	-24.1	-22.2	-20.6
-6.8				-52.2	-37.5	-31.9	-28.4	-25.7	-23.6	-21.8
-6.6					-45.2	-35.6	-30.8	-27.5	-25.0	-22.9
-6.4						-41.4	-34.0	-29.7	-26.8	-24.3
-6.2						-60.6	-38.6	-32.6	-28.8	-25.9

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-12.0	100									
-11.8	94	100								
-11.6	88	94	100							
-11.4	82	88	94	100						
-11.2	76	82	88	94	100					
-11.0	71	77	82	88	94	100				
-10.8	65	71	77	83	88	94	100			
-10.6	60	66	71	77	83	89	94	100		
-10.4	55	61	66	72	77	83	89	94	100	
-10.2	51	56	61	67	72	78	83	89	94	100
-10.0	46	51	56	62	67	72	78	84	89	94
-9.8	41	47	52	57	62	67	73	78	84	89
-9.6	37	42	47	52	58	63	68	73	78	84
-9.4	32	38	43	48	53	58	63	68	73	79
-9.2	28	33	38	43	48	53	58	64	69	74
-9.0	25	29	34	39	44	49	54	59	64	69
-8.8	21	25	30	35	40	45	50	54	60	64
-8.6	17	22	26	31	36	40	45	50	55	60
-8.4	13	18	23	27	32	36	41	46	51	56
-8.2	10	14	19	24	28	33	37	42	47	51
-8.0	6	11	15	20	25	29	34	38	43	47
-7.8	3	8	12	16	21	25	30	34	39	43
-7.6		4	9	13	17	22	26	31	35	40
-7.4		2	6	10	14	18	23	27	32	36
-7.2			3	7	11	15	19	24	28	32
-7.0				4	8	12	16	20	25	29
-6.8				1	5	9	13	17	21	25
-6.6					2	6	10	14	18	22
-6.4						3	7	11	15	19
-6.2							4	8	12	16

Wet Bulb -12.9 to -10.2
Dry Bulb -6.0 to -5.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-6.0							-48.0	-36.5	-31.1	-27.7
-5.8								-42.2	-34.3	-30.0
-5.6									-39.2	-32.9
-5.4									-49.9	-37.0
-5.2										-43.1

Wet Bulb -10.0 to -8.2
Dry Bulb -10.0 to -6.2

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-10.0	-10.0									
-9.8	-10.4	-9.8								
-9.6	-10.9	-10.2	-9.6							
-9.4	-11.4	-10.7	-10.0	-9.4						
-9.2	-11.9	-11.1	-10.5	-9.8	-9.2					
-9.0	-12.4	-11.6	-10.9	-10.3	-9.6	-9.0				
-8.8	-12.9	-12.1	-11.4	-10.7	-10.0	-9.4	-8.8			
-8.6	-13.4	-12.6	-11.9	-11.2	-10.5	-9.8	-9.2	-8.6		
-8.4	-14.0	-13.2	-12.4	-11.6	-10.9	-10.3	-9.6	-9.0	-8.4	
-8.2	-14.6	-13.8	-12.9	-12.1	-11.4	-10.7	-10.0	-9.4	-8.8	-8.2
-8.0	-15.3	-14.3	-13.5	-12.6	-11.9	-11.2	-10.5	-9.8	-9.2	-8.6
-7.8	-16.0	-14.9	-14.1	-13.2	-12.4	-11.7	-10.9	-10.3	-9.6	-8.9
-7.6	-16.7	-15.6	-14.7	-13.8	-12.9	-12.1	-11.4	-10.7	-10.0	-9.4
-7.4	-17.5	-16.3	-15.3	-14.4	-13.5	-12.6	-11.9	-11.1	-10.4	-9.8
-7.2	-18.2	-17.1	-16.0	-15.0	-14.1	-13.2	-12.4	-11.6	-10.9	-10.2
-7.0	-19.1	-17.9	-16.7	-15.7	-14.7	-13.8	-12.9	-12.1	-11.4	-10.7
-6.8	-20.1	-18.8	-17.5	-16.3	-15.3	-14.4	-13.5	-12.6	-11.9	-11.1
-6.6	-21.2	-19.7	-18.3	-17.1	-16.0	-15.0	-14.1	-13.2	-12.4	-11.6
-6.4	-22.4	-20.6	-19.2	-17.9	-16.8	-15.7	-14.7	-13.8	-12.9	-12.1
-6.2	-23.7	-21.8	-20.2	-18.8	-17.5	-16.4	-15.3	-14.4	-13.5	-12.6

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-6.0							1	5	9	13
-5.8								3	6	10
-5.6									4	7
-5.4									1	5
-5.2										2

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-10.0	100									
-9.8	95	100								
-9.6	89	95	100							
-9.4	84	89	95	100						
-9.2	79	84	89	95	100					
-9.0	74	79	84	90	95	100				
-8.8	69	74	80	84	90	95	100			
-8.6	65	70	75	80	85	90	95	100		
-8.4	61	65	70	75	80	85	90	95	100	
-8.2	56	61	66	71	75	80	85	90	95	100
-8.0	52	57	61	66	71	76	80	85	90	95
-7.8	48	53	57	62	67	71	76	81	85	90
-7.6	44	49	53	58	62	67	71	76	81	86
-7.4	40	45	49	54	58	63	67	72	77	81
-7.2	37	41	45	50	54	59	63	68	72	77
-7.0	33	37	42	46	50	55	59	64	68	73
-6.8	30	34	38	42	47	51	55	60	64	68
-6.6	26	30	35	39	43	47	51	56	60	64
-6.4	23	27	31	35	39	44	48	52	56	60
-6.2	20	24	28	32	36	40	44	48	52	57

Wet Bulb -10.0 to -8.2
 Dry Bulb -6.0 to -2.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-6.0	-25.2	-23.0	-21.3	-19.7	-18.3	-17.2	-16.0	-15.0	-14.1	-13.2
-5.8	-26.9	-24.4	-22.5	-20.7	-19.2	-17.9	-16.7	-15.7	-14.6	-13.7
-5.6	-28.3	-26.0	-23.7	-21.9	-20.2	-18.8	-17.5	-16.3	-15.3	-14.3
-5.4	-31.3	-27.9	-25.2	-23.1	-21.3	-19.7	-18.3	-17.1	-16.0	-14.9
-5.2	-34.7	-30.3	-26.9	-24.4	-22.5	-20.7	-19.2	-17.9	-16.7	-15.6
-5.0	-39.9	-32.9	-29.0	-26.0	-23.8	-21.9	-20.2	-18.8	-17.5	-16.3
-4.8	-52.2	-37.0	-31.6	-27.9	-25.4	-23.1	-21.3	-19.7	-18.3	-17.1
-4.6		-44.1	-35.1	-30.3	-27.1	-24.6	-22.5	-20.7	-19.2	-17.9
-4.4			-40.6	-33.2	-29.0	-26.2	-23.8	-21.9	-20.2	-18.8
-4.2			-52.2	-37.5	-31.6	-27.9	-25.4	-23.1	-21.3	-19.7
-4.0				-45.2	-35.1	-30.3	-26.9	-24.6	-22.5	-20.6
-3.8					-40.6	-33.2	-29.0	-26.0	-23.7	-21.8
-3.6					-55.3	-37.5	-31.6	-27.9	-25.2	-23.0
-3.4						-45.2	-35.1	-30.3	-26.9	-24.4
-3.2							-40.6	-33.2	-29.0	-26.0
-3.0							-55.3	-37.5	-31.6	-27.9
-2.8								-45.2	-35.1	-30.3
-2.6									-40.6	-33.2
-2.4									-55.3	-37.5
-2.2										-45.2

Wet Bulb -8.0 to -6.2
 Dry Bulb -8.0 to -7.2

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-8.0	-8.0									
-7.8	-8.4	-7.8								
-7.6	-8.8	-8.2	-7.6							
-7.4	-9.1	-8.6	-8.0	-7.4						
-7.2	-9.6	-8.9	-8.3	-7.8	-7.2					

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-6.0	17	21	25	29	33	37	41	45	49	53
-5.8	14	18	22	26	30	34	38	41	46	50
-5.6	11	15	19	23	26	30	34	38	42	46
-5.4	9	12	16	20	23	27	31	35	39	43
-5.2	6	9	13	17	21	24	28	32	36	40
-5.0	3	7	10	14	18	21	25	29	33	36
-4.8	1	4	8	12	15	19	22	26	30	33
-4.6		2	5	9	12	16	19	23	27	30
-4.4			3	6	10	13	17	20	24	27
-4.2			1	4	7	11	14	18	21	25
-4.0				2	5	8	12	15	19	22
-3.8					3	6	9	13	16	20
-3.6						4	7	10	14	17
-3.4						2	5	8	11	15
-3.2							3	6	9	12
-3.0								4	7	10
-2.8								1	5	8
-2.6									2	5
-2.4										3
-2.2										1

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-8.0	100									
-7.8	95	100								
-7.6	90	95	100							
-7.4	86	90	95	100						
-7.2	81	86	91	95	100					

Wet Bulb -8.0 to -6.2
Dry Bulb -7.0 to -1.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-7.0	-10.0	-9.3	-8.7	-8.1	-7.6	-7.0				
-6.8	-10.4	-9.7	-9.1	-8.5	-7.9	-7.3	-6.8			
-6.6	-10.9	-10.2	-9.5	-8.9	-8.3	-7.7	-7.1	-6.6		
-6.4	-11.3	-10.6	-9.9	-9.3	-8.7	-8.1	-7.5	-6.9	-6.4	
-6.2	-11.8	-11.1	-10.4	-9.7	-9.0	-8.4	-7.8	-7.3	-6.7	-6.2
-6.0	-12.3	-11.6	-10.8	-10.1	-9.4	-8.8	-8.2	-7.6	-7.1	-6.5
-5.8	-12.9	-12.1	-11.3	-10.6	-9.9	-9.2	-8.6	-8.0	-7.4	-6.9
-5.6	-13.4	-12.6	-11.8	-11.0	-10.3	-9.6	-9.0	-8.4	-7.8	-7.2
-5.4	-14.0	-13.1	-12.3	-11.5	-10.7	-10.0	-9.4	-8.8	-8.1	-7.5
-5.2	-14.6	-13.6	-12.8	-12.0	-11.2	-10.5	-9.8	-9.1	-8.5	-7.9
-5.0	-15.3	-14.3	-13.4	-12.5	-11.7	-10.9	-10.2	-9.5	-8.9	-8.3
-4.8	-16.0	-14.9	-13.9	-13.0	-12.2	-11.4	-10.7	-9.9	-9.3	-8.6
-4.6	-16.7	-15.5	-14.6	-13.6	-12.7	-11.9	-11.1	-10.4	-9.7	-9.0
-4.4	-17.4	-16.3	-15.2	-14.2	-13.3	-12.4	-11.6	-10.8	-10.1	-9.4
-4.2	-18.2	-17.0	-15.9	-14.8	-13.9	-13.0	-12.1	-11.3	-10.6	-9.9
-4.0	-19.1	-17.8	-16.6	-15.5	-14.4	-13.5	-12.6	-11.8	-11.0	-10.3
-3.8	-20.1	-18.7	-17.3	-16.2	-15.1	-14.1	-13.2	-12.3	-11.5	-10.7
-3.6	-21.2	-19.6	-18.2	-16.9	-15.8	-14.8	-13.8	-12.9	-12.0	-11.2
-3.4	-22.4	-20.6	-19.0	-17.7	-16.5	-15.4	-14.4	-13.4	-12.5	-11.7
-3.2	-23.7	-21.8	-20.0	-18.6	-17.2	-16.0	-15.0	-14.0	-13.1	-12.2
-3.0	-25.2	-22.9	-21.2	-19.5	-18.1	-16.8	-15.7	-14.6	-13.6	-12.7
-2.8	-26.9	-24.3	-22.2	-20.4	-19.0	-17.6	-16.3	-15.3	-14.3	-13.3
-2.6	-28.8	-25.9	-23.6	-21.5	-19.9	-18.4	-17.1	-15.9	-14.8	-13.8
-2.4	-31.3	-27.7	-25.0	-22.8	-21.0	-19.3	-17.9	-16.6	-15.5	-14.4
-2.2	-34.7	-30.0	-26.8	-24.1	-22.1	-20.3	-18.8	-17.4	-16.2	-15.1
-2.0	-39.9	-32.9	-28.6	-25.7	-23.4	-21.4	-19.7	-18.2	-16.9	-15.8
-1.8	-52.2	-37.0	-31.1	-27.5	-24.7	-22.6	-20.7	-19.1	-17.7	-16.5
-1.6		-44.1	-34.3	-29.7	-26.4	-24.0	-21.9	-20.1	-18.6	-17.2
-1.4			-39.2	-32.6	-28.4	-25.5	-23.1	-21.2	-19.5	-18.1
-1.2			-49.9	-36.5	-30.8	-27.3	-24.6	-22.4	-20.5	-19.0

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-7.0	77	82	86	91	95	100				
-6.8	73	77	82	86	91	95	100			
-6.6	69	73	77	82	86	91	95	100		
-6.4	65	69	73	78	82	87	91	96	100	
-6.2	61	65	69	74	78	82	87	91	96	100
-6.0	57	61	66	70	74	78	82	87	91	96
-5.8	54	58	62	66	70	74	78	83	87	91
-5.6	50	54	58	62	66	71	74	79	83	87
-5.4	47	51	55	59	63	67	71	75	79	83
-5.2	43	47	51	55	59	63	67	71	75	79
-5.0	40	44	48	52	56	60	64	67	71	75
-4.8	37	41	45	48	52	56	60	64	68	72
-4.6	34	38	41	45	49	53	57	60	64	68
-4.4	31	35	38	42	46	49	53	57	61	65
-4.2	28	32	35	39	43	46	50	54	57	61
-4.0	26	29	33	36	40	43	47	51	54	58
-3.8	23	26	30	33	37	40	44	47	51	55
-3.6	20	24	27	31	34	37	41	44	48	52
-3.4	18	21	25	28	31	35	38	42	45	48
-3.2	15	19	22	25	29	32	35	39	42	46
-3.0	13	16	20	23	26	29	33	36	39	43
-2.8	11	14	17	20	24	27	30	33	37	40
-2.6	9	12	15	18	21	24	28	31	34	37
-2.4	7	10	13	16	19	22	25	28	32	35
-2.2	5	7	10	14	17	20	23	26	29	32
-2.0	3	5	9	11	14	17	20	24	27	30
-1.8	1	3	6	9	12	15	18	21	24	27
-1.6		1	4	7	10	13	16	19	22	25
-1.4			3	5	8	11	14	17	20	23
-1.2			1	3	6	9	12	15	18	21

Wet Bulb -8.0 to -6.2
Dry Bulb -1.0 to +1.0

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-1.0				-43.1	-34.0	-29.3	-26.2	-23.7	-21.6	-19.9
-0.8					-38.6	-31.9	-28.1	-25.2	-22.9	-21.0
-0.6					-48.0	-35.6	-30.5	-26.9	-24.3	-22.1
-0.4						-41.4	-33.2	-29.0	-25.9	-23.4
-0.2						-60.6	-37.5	-31.3	-27.7	-24.9
0.0							-45.2	-34.7	-29.7	-26.4
0.2								-39.9	-32.6	-28.4
0.4								-52.2	-36.5	-30.8
0.6									-43.1	-34.0
0.8										-38.6
1.0										-48.0

Wet Bulb -6.0 to -4.2
Dry Bulb -6.0 to -3.2

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-6.0	-6.0									
-5.8	-6.3	-5.8								
-5.6	-6.6	-6.1	-5.6							
-5.4	-7.0	-6.4	-5.9	-5.4						
-5.2	-7.3	-6.8	-6.2	-5.7	-5.2					
-5.0	-7.7	-7.1	-6.5	-6.0	-5.5	-5.0				
-4.8	-8.0	-7.5	-6.9	-6.3	-5.8	-5.3	-4.8			
-4.6	-8.4	-7.8	-7.2	-6.7	-6.1	-5.6	-5.1	-4.6		
-4.4	-8.8	-8.2	-7.6	-7.0	-6.4	-5.9	-5.4	-4.9	-4.4	
-4.2	-9.2	-8.6	-7.9	-7.3	-6.8	-6.2	-5.7	-5.2	-4.7	-4.2
-4.0	-9.6	-8.9	-8.3	-7.7	-7.1	-6.5	-6.0	-5.5	-5.0	-4.5
-3.8	-10.0	-9.4	-8.7	-8.1	-7.5	-6.9	-6.3	-5.8	-5.3	-4.8
-3.6	-10.5	-9.7	-9.1	-8.4	-7.8	-7.2	-6.6	-6.1	-5.5	-5.0
-3.4	-10.9	-10.2	-9.5	-8.8	-8.2	-7.6	-7.0	-6.4	-5.9	-5.3
-3.2	-11.4	-10.6	-9.9	-9.2	-8.6	-7.9	-7.3	-6.7	-6.2	-5.6

Relative Humidity (%) (700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-1.0				2	4	7	10	13	16	18
-0.8					3	5	8	11	14	16
-0.6					1	4	6	9	12	14
-0.4						2	5	7	10	13
-0.2							3	5	8	11
0.0							1	4	6	9
0.2								2	5	7
0.4									3	6
0.6									1	4
0.8										2
1.0										1

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-6.0	100									
-5.8	96	100								
-5.6	92	96	100							
-5.4	87	92	96	100						
-5.2	83	87	92	96	100					
-5.0	79	83	88	92	96	100				
-4.8	76	80	84	88	92	96	100			
-4.6	72	76	80	84	88	92	96	100		
-4.4	68	72	76	80	84	88	92	96	100	
-4.2	65	69	73	76	80	84	88	92	96	100
-4.0	62	65	69	73	77	81	84	88	92	96
-3.8	58	62	66	69	73	77	81	85	88	92
-3.6	55	59	62	66	70	73	77	81	85	88
-3.4	52	56	59	63	66	70	74	77	81	85
-3.2	49	53	56	60	63	67	70	74	78	81

Wet Bulb -6.0 to -4.2
Dry Bulb -3.0 to +2.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-3.0	-11.9	-11.1	-10.3	-9.6	-8.9	-8.3	-7.7	-7.1	-6.5	-6.0
-2.8	-12.4	-11.6	-10.8	-10.0	-9.4	-8.7	-8.0	-7.4	-6.8	-6.3
-2.6	-12.9	-12.1	-11.3	-10.5	-9.7	-9.1	-8.4	-7.8	-7.2	-6.6
-2.4	-13.5	-12.6	-11.8	-10.9	-10.2	-9.5	-8.8	-8.1	-7.5	-6.9
-2.2	-14.1	-13.1	-12.3	-11.4	-10.6	-9.9	-9.2	-8.5	-7.9	-7.3
-2.0	-14.7	-13.7	-12.7	-11.9	-11.1	-10.3	-9.6	-8.9	-8.3	-7.6
-1.8	-15.3	-14.3	-13.3	-12.4	-11.6	-10.8	-10.0	-9.3	-8.6	-8.0
-1.6	-16.0	-14.9	-13.9	-13.0	-12.1	-11.2	-10.5	-9.7	-9.0	-8.4
-1.4	-16.8	-15.6	-14.5	-13.5	-12.6	-11.7	-10.9	-10.2	-9.4	-8.8
-1.2	-17.6	-16.3	-15.1	-14.1	-13.1	-12.2	-11.4	-10.6	-9.9	-9.1
-1.0	-18.4	-17.1	-15.8	-14.8	-13.7	-12.7	-11.9	-11.1	-10.3	-9.5
-0.8	-19.3	-17.8	-16.6	-15.4	-14.3	-13.3	-12.4	-11.6	-10.7	-9.9
-0.6	-20.3	-18.7	-17.3	-16.1	-14.9	-13.9	-12.9	-12.1	-11.2	-10.4
-0.4	-21.3	-19.6	-18.2	-16.8	-15.6	-14.5	-13.5	-12.5	-11.7	-10.8
-0.2	-22.5	-20.6	-19.0	-17.6	-16.3	-15.1	-14.1	-13.1	-12.2	-11.3
0.0	-23.8	-21.8	-20.0	-18.4	-17.1	-15.8	-14.7	-13.6	-12.7	-11.8
0.2	-25.4	-23.0	-21.1	-19.3	-17.9	-16.6	-15.3	-14.3	-13.2	-12.3
0.4	-27.1	-24.4	-22.2	-20.3	-18.8	-17.3	-16.0	-14.9	-13.8	-12.9
0.6	-29.3	-26.0	-23.6	-21.4	-19.7	-18.2	-16.8	-15.5	-14.4	-13.4
0.8	-31.9	-27.9	-25.0	-22.6	-20.6	-19.0	-17.6	-16.3	-15.1	-14.0
1.0	-35.6	-30.3	-26.6	-24.0	-21.8	-20.0	-18.4	-17.0	-15.8	-14.6
1.2	-41.4	-33.2	-28.6	-25.5	-23.0	-21.1	-19.3	-17.8	-16.5	-15.3
1.4	-60.6	-37.5	-31.1	-27.3	-24.4	-22.2	-20.3	-18.7	-17.2	-16.0
1.6		-45.2	-34.3	-29.5	-26.0	-23.6	-21.4	-19.6	-18.1	-16.7
1.8			-39.2	-32.2	-27.9	-24.9	-22.6	-20.6	-19.0	-17.5
2.0			-49.9	-36.0	-30.3	-26.6	-24.0	-21.8	-19.9	-18.3
2.2				-42.2	-33.2	-28.6	-25.5	-23.0	-21.0	-19.2
2.4					-37.5	-31.1	-27.3	-24.4	-22.1	-20.2
2.6					-45.2	-34.3	-29.5	-26.0	-23.4	-21.3
2.8						-39.2	-31.9	-27.9	-24.9	-22.5

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-3.0	46	50	53	57	60	63	67	71	74	78
-2.8	43	47	50	54	57	60	64	67	71	74
-2.6	41	44	47	51	54	57	61	64	68	71
-2.4	38	41	44	48	51	54	58	61	65	68
-2.2	35	39	42	45	48	52	55	58	62	65
-2.0	33	36	39	42	46	49	52	55	59	62
-1.8	30	33	37	40	43	46	49	52	56	59
-1.6	28	31	34	37	40	44	47	50	53	56
-1.4	26	29	32	35	38	41	44	47	50	53
-1.2	24	26	29	32	35	39	41	44	48	51
-1.0	21	24	27	30	33	36	39	42	45	48
-0.8	19	22	25	28	31	34	37	40	43	46
-0.6	17	20	23	26	29	31	34	37	40	43
-0.4	15	18	21	24	26	29	32	35	38	41
-0.2	13	16	19	22	24	27	30	33	36	38
0.0	12	14	17	20	22	25	28	31	33	36
0.2	10	12	15	18	20	23	26	29	31	34
0.4	8	11	13	16	18	21	24	27	29	32
0.6	6	9	11	14	17	19	22	25	27	30
0.8	5	7	10	12	15	17	20	23	25	28
1.0	3	6	8	11	13	16	18	21	23	26
1.2	2	4	7	9	12	14	17	19	22	24
1.4		3	5	7	10	12	15	17	20	22
1.6		1	4	6	8	11	13	16	18	21
1.8			2	4	7	9	12	14	16	19
2.0			1	3	5	8	10	12	15	17
2.2				1	4	6	8	11	13	16
2.4					2	5	7	9	12	14
2.6					1	3	5	8	10	12
2.8						2	4	6	9	11

Wet Bulb -6.0 to -4.2
Dry Bulb +3.0 to +4.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
3.0						-49.9	-35.6	-30.3	-26.6	-23.7
3.2							-41.4	-32.9	-28.4	-25.2
3.4							-60.6	-37.0	-30.8	-26.9
3.6								-44.1	-34.0	-29.0
3.8									-38.6	-31.6
4.0									-48.0	-35.1
4.2										-40.6
4.4										-55.3

Wet Bulb -4.0 to -2.2
Dry Bulb -4.0 to -0.2

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
-4.0	-4.0									
-3.8	-4.3	-3.8								
-3.6	-4.6	-4.1	-3.6							
-3.4	-4.8	-4.3	-3.9	-3.4						
-3.2	-5.1	-4.6	-4.1	-3.7	-3.2					
-3.0	-5.4	-4.9	-4.4	-3.9	-3.5	-3.0				
-2.8	-5.7	-5.2	-4.7	-4.2	-3.7	-3.2	-2.8			
-2.6	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.6		
-2.4	-6.3	-5.8	-5.3	-4.8	-4.3	-3.8	-3.3	-2.8	-2.4	
-2.2	-6.7	-6.1	-5.5	-5.0	-4.5	-4.0	-3.6	-3.1	-2.6	-2.2
-2.0	-7.0	-6.4	-5.9	-5.3	-4.8	-4.3	-3.8	-3.3	-2.9	-2.4
-1.8	-7.3	-6.8	-6.2	-5.6	-5.1	-4.6	-4.1	-3.6	-3.1	-2.7
-1.6	-7.7	-7.1	-6.5	-6.0	-5.4	-4.9	-4.4	-3.9	-3.4	-2.9
-1.4	-8.1	-7.5	-6.8	-6.3	-5.7	-5.2	-4.6	-4.1	-3.7	-3.2
-1.2	-8.4	-7.8	-7.2	-6.6	-6.0	-5.5	-4.9	-4.4	-3.9	-3.4
-1.0	-8.8	-8.2	-7.5	-6.9	-6.3	-5.8	-5.2	-4.7	-4.2	-3.7
-0.8	-9.2	-8.6	-7.9	-7.3	-6.7	-6.1	-5.5	-5.0	-4.5	-4.0
-0.6	-9.6	-8.9	-8.3	-7.6	-7.0	-6.4	-5.8	-5.3	-4.8	-4.2
-0.4	-10.1	-9.4	-8.6	-8.0	-7.3	-6.7	-6.1	-5.6	-5.0	-4.5
-0.2	-10.5	-9.8	-9.0	-8.3	-7.7	-7.1	-6.5	-5.9	-5.3	-4.8

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
3.0						1	3	5	7	10
3.2							1	4	6	8
3.4								2	4	7
3.6								1	3	5
3.8									2	4
4.0									1	3
4.2										1

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
-4.0	100									
-3.8	96	100								
-3.6	92	96	100							
-3.4	88	92	96	100						
-3.2	85	89	92	96	100					
-3.0	81	85	89	92	96	100				
-2.8	78	82	85	89	93	96	100			
-2.6	75	78	82	85	89	93	96	100		
-2.4	72	75	79	82	86	89	93	96	100	
-2.2	68	72	75	79	82	86	89	93	96	100
-2.0	65	69	72	75	79	82	86	89	93	96
-1.8	62	66	69	72	76	79	83	86	89	93
-1.6	59	63	66	69	73	76	79	83	86	90
-1.4	57	60	63	66	69	73	76	79	83	86
-1.2	54	57	60	63	67	70	73	76	80	83
-1.0	51	54	57	60	64	67	70	73	76	80
-0.8	49	52	55	58	61	64	67	70	73	77
-0.6	46	49	52	55	58	61	64	67	71	74
-0.4	44	47	50	53	56	59	62	65	68	71
-0.2	41	44	47	50	53	56	59	62	65	68

Wet Bulb -4.0 to -2.2
 Dry Bulb -0.0 to +5.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
0.0	-11.0	-10.2	-9.4	-8.7	-8.1	-7.4	-6.8	-6.2	-5.6	-5.1
0.2	-11.5	-10.6	-9.9	-9.1	-8.4	-7.8	-7.1	-6.5	-5.9	-5.4
0.4	-12.0	-11.1	-10.3	-9.5	-8.8	-8.1	-7.5	-6.9	-6.2	-5.7
0.6	-12.5	-11.6	-10.7	-9.9	-9.2	-8.5	-7.8	-7.2	-6.6	-6.0
0.8	-13.0	-12.1	-11.2	-10.4	-9.6	-8.9	-8.2	-7.6	-6.9	-6.3
1.0	-13.6	-12.6	-11.7	-10.8	-10.1	-9.3	-8.6	-7.9	-7.2	-6.6
1.2	-14.2	-13.1	-12.2	-11.3	-10.5	-9.7	-9.0	-8.3	-7.6	-7.0
1.4	-14.8	-13.7	-12.7	-11.8	-10.9	-10.2	-9.4	-8.7	-8.0	-7.3
1.6	-15.5	-14.3	-13.3	-12.3	-11.4	-10.6	-9.8	-9.0	-8.3	-7.7
1.8	-16.2	-14.9	-13.9	-12.9	-11.9	-11.1	-10.3	-9.4	-8.7	-8.0
2.0	-16.9	-15.6	-14.5	-13.4	-12.4	-11.6	-10.7	-9.9	-9.1	-8.4
2.2	-17.7	-16.3	-15.1	-14.0	-13.0	-12.1	-11.2	-10.3	-9.5	-8.8
2.4	-18.5	-17.1	-15.8	-14.6	-13.5	-12.5	-11.7	-10.7	-9.9	-9.2
2.6	-19.4	-17.9	-16.6	-15.3	-14.1	-13.1	-12.1	-11.2	-10.2	-9.6
2.8	-20.4	-18.8	-17.2	-16.0	-14.8	-13.6	-12.6	-11.7	-10.8	-10.0
3.0	-21.5	-19.7	-18.1	-16.7	-15.4	-14.3	-13.2	-12.2	-11.3	-10.5
3.2	-22.8	-20.7	-19.0	-17.5	-16.1	-14.9	-13.8	-12.7	-11.8	-10.9
3.4	-24.1	-21.9	-19.9	-18.3	-16.9	-15.5	-14.4	-13.3	-12.3	-11.4
3.6	-25.7	-23.1	-21.0	-19.2	-17.7	-16.3	-15.0	-13.9	-12.9	-11.9
3.8	-27.5	-24.6	-22.1	-20.2	-18.5	-17.0	-15.7	-14.5	-13.4	-12.4
4.0	-29.7	-26.2	-23.4	-21.3	-19.4	-17.8	-16.4	-15.1	-14.0	-13.0
4.2	-32.6	-28.1	-24.9	-22.5	-20.4	-18.7	-17.2	-15.8	-14.6	-13.5
4.4	-36.5	-30.5	-26.6	-23.8	-21.5	-19.6	-18.0	-16.6	-15.3	-14.1
4.6	-43.1	-33.6	-28.6	-25.4	-22.8	-20.6	-18.9	-17.3	-16.0	-14.8
4.8		-37.5	-31.1	-27.1	-24.1	-21.8	-19.8	-18.2	-16.7	-15.4
5.0		-45.2	-34.3	-29.0	-25.7	-23.0	-20.9	-19.0	-17.5	-16.1
5.2			-39.2	-31.6	-27.5	-24.4	-22.0	-20.0	-18.3	-16.9
5.4			-49.9	-35.1	-29.7	-26.0	-23.3	-21.1	-19.2	-17.7
5.6				-40.6	-32.6	-27.9	-24.7	-22.2	-20.2	-18.5
5.8				-55.3	-36.5	-30.3	-26.4	-23.6	-21.3	-19.4

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
0.0	39	42	45	48	50	53	56	59	62	65
0.2	37	40	42	45	48	51	54	57	60	63
0.4	35	38	40	43	46	49	52	54	57	60
0.6	33	35	38	41	44	46	49	52	55	58
0.8	31	33	36	39	41	44	47	50	53	55
1.0	29	31	34	37	39	42	45	48	50	53
1.2	27	29	32	35	37	40	43	45	48	51
1.4	25	28	30	33	35	38	41	43	46	49
1.6	23	26	28	31	33	36	39	41	44	47
1.8	21	24	26	29	31	34	37	39	42	44
2.0	20	22	25	27	30	32	35	37	40	42
2.2	18	20	23	25	28	30	33	35	38	40
2.4	16	19	21	24	26	29	31	33	36	38
2.6	15	17	19	22	24	27	29	32	34	37
2.8	13	16	18	20	23	25	27	30	32	35
3.0	12	14	16	19	21	23	26	28	30	33
3.2	10	12	15	17	19	22	24	26	29	31
3.4	9	11	13	16	18	20	22	25	27	29
3.6	7	10	12	14	16	19	21	23	25	28
3.8	6	8	10	13	15	17	19	22	24	26
4.0	5	7	9	11	13	16	18	20	22	24
4.2	4	6	8	10	12	14	16	19	21	23
4.4	2	4	6	8	11	13	15	17	19	21
4.6	1	3	5	7	9	11	14	16	18	20
4.8		2	4	6	8	10	12	14	16	18
5.0		1	3	5	7	9	11	13	15	17
5.2			2	4	6	8	10	12	14	16
5.4				2	4	6	8	10	12	14
5.6				1	3	5	7	9	11	13
5.8					2	4	6	8	10	12

Wet Bulb -4.0 to -2.2
 Dry Bulb +6.0 to +7.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
6.0					-43.1	-33.2	-28.4	-25.0	-22.5	-20.4
6.2						-37.5	-30.8	-26.8	-23.8	-21.5
6.4						-45.2	-34.0	-28.8	-25.4	-22.8
6.6							-38.6	-31.3	-27.1	-24.1
6.8							-48.0	-34.7	-29.3	-25.5
7.0								-39.9	-31.9	-27.3
7.2								-52.2	-35.6	-29.5
7.4									-41.4	-32.2
7.6									-60.6	-36.0
7.8										-42.2

Wet Bulb -2.0 to -0.2
 Dry Bulb -2.0 to +0.8

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
-2.0	-2.0									
-1.8	-2.2	-1.8								
-1.6	-2.5	-2.0	-1.6							
-1.4	-2.7	-2.3	-1.8	-1.4						
-1.2	-3.0	-2.5	-2.1	-1.6	-1.2					
-1.0	-3.2	-2.7	-2.3	-1.8	-1.4	-1.0				
-0.8	-3.5	-3.0	-2.5	-2.1	-1.6	-1.2	-0.8			
-0.6	-3.7	-3.2	-2.8	-2.3	-1.9	-1.4	-1.0	-0.6		
-0.4	-4.0	-3.5	-3.0	-2.6	-2.1	-1.7	-1.2	-0.8	-0.4	
-0.2	-4.3	-3.8	-3.3	-2.8	-2.3	-1.9	-1.4	-1.0	-0.6	-0.2
0.0	-4.6	-4.0	-3.5	-3.0	-2.6	-2.1	-1.7	-1.2	-0.8	-0.4
0.2	-4.8	-4.5	-3.8	-3.3	-2.8	-2.4	-1.9	-1.5	-1.0	-0.6
0.4	-5.1	-4.6	-4.1	-3.6	-3.1	-2.6	-2.1	-1.7	-1.2	-0.8
0.6	-5.4	-4.9	-4.5	-3.8	-3.3	-2.8	-2.4	-1.9	-1.5	-1.0
0.8	-5.7	-5.2	-4.6	-4.1	-3.6	-3.1	-2.6	-2.1	-1.7	-1.2

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
6.0					1	3	5	7	9	11
6.2						2	4	6	7	9
6.4						1	3	4	6	8
6.6							2	3	5	7
6.8							1	2	4	6
7.0								1	3	5
7.2									2	4
7.4									1	3
7.6										2
7.8										1

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
-2.0	100									
-1.8	96	100								
-1.6	93	96	100							
-1.4	90	93	97	100						
-1.2	86	90	93	97	100					
-1.0	83	86	90	93	97	100				
-0.8	80	83	87	90	93	97	100			
-0.6	77	80	83	87	90	93	97	100		
-0.4	74	77	80	84	87	90	93	97	100	
-0.2	71	74	77	81	84	87	90	93	97	100
0.0	68	71	75	78	81	84	87	90	94	97
0.2	66	69	72	75	78	81	84	87	91	94
0.4	63	66	69	72	75	78	81	84	88	91
0.6	61	64	67	70	73	76	79	82	85	88
0.8	58	61	64	67	70	73	76	79	82	85

Wet Bulb -2.0 to -0.2
Dry Bulb +1.0 to +6.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
1.0	-6.0	-5.5	-4.9	-4.4	-3.8	-3.3	-2.8	-2.4	-1.9	-1.5
1.2	-6.3	-5.8	-5.2	-4.6	-4.1	-3.6	-3.1	-2.6	-2.1	-1.7
1.4	-6.7	-6.1	-5.5	-4.9	-4.4	-3.9	-3.3	-2.9	-2.4	-1.9
1.6	-7.0	-6.4	-5.8	-5.2	-4.7	-4.1	-3.6	-3.1	-2.6	-2.1
1.8	-7.3	-6.7	-6.1	-5.5	-5.0	-4.4	-3.9	-3.4	-2.9	-2.4
2.0	-7.7	-7.1	-6.4	-5.8	-5.3	-4.7	-4.1	-3.6	-3.1	-2.6
2.2	-8.1	-7.4	-6.8	-6.1	-5.5	-5.0	-4.4	-3.9	-3.4	-2.9
2.4	-8.4	-7.8	-7.1	-6.5	-5.9	-5.3	-4.7	-4.2	-3.6	-3.1
2.6	-8.8	-8.1	-7.5	-6.8	-6.2	-5.6	-5.0	-4.4	-3.9	-3.4
2.8	-9.2	-8.5	-7.8	-7.1	-6.5	-5.9	-5.3	-4.7	-4.2	-3.6
3.0	-9.6	-8.9	-8.2	-7.5	-6.8	-6.2	-5.6	-5.0	-4.4	-3.9
3.2	-10.1	-9.3	-8.6	-7.8	-7.2	-6.5	-5.9	-5.3	-4.7	-4.2
3.4	-10.5	-9.7	-8.9	-8.2	-7.5	-6.9	-6.2	-5.6	-5.0	-4.5
3.6	-11.0	-10.2	-9.4	-8.6	-7.9	-7.2	-6.5	-5.9	-5.3	-4.8
3.8	-11.5	-10.6	-9.8	-9.0	-8.3	-7.6	-6.9	-6.2	-5.6	-5.0
4.0	-12.0	-11.1	-10.2	-9.4	-8.6	-7.9	-7.2	-6.6	-5.9	-5.3
4.2	-12.5	-11.6	-10.7	-9.8	-9.0	-8.3	-7.6	-6.9	-6.2	-5.6
4.4	-13.0	-12.1	-11.1	-10.3	-9.4	-8.7	-7.9	-7.2	-6.6	-6.0
4.6	-13.6	-12.6	-11.6	-10.7	-9.9	-9.1	-8.3	-7.6	-6.9	-6.3
4.8	-14.2	-13.1	-12.1	-11.2	-10.3	-9.5	-8.7	-8.0	-7.2	-6.6
5.0	-14.8	-13.7	-12.6	-11.7	-10.7	-9.9	-9.1	-8.3	-7.6	-6.9
5.2	-15.5	-14.3	-13.2	-12.2	-11.2	-10.3	-9.5	-8.7	-8.0	-7.3
5.4	-16.2	-14.9	-13.8	-12.7	-11.7	-10.8	-9.9	-9.1	-8.3	-7.6
5.6	-16.9	-15.6	-14.4	-13.2	-12.2	-11.3	-10.3	-9.5	-8.7	-8.0
5.8	-17.7	-16.3	-15.0	-13.8	-12.7	-11.8	-10.8	-9.9	-9.1	-8.4
6.0	-18.6	-17.1	-15.7	-14.4	-13.3	-12.3	-11.3	-10.4	-9.5	-8.8
6.2	-19.5	-17.9	-16.4	-15.1	-13.9	-12.8	-11.8	-10.8	-9.9	-9.1
6.4	-20.5	-18.8	-17.2	-15.8	-14.5	-13.4	-12.3	-11.3	-10.4	-9.6
6.6	-21.6	-19.6	-18.0	-16.5	-15.1	-13.9	-12.8	-11.8	-10.8	-10.0
6.8	-22.9	-20.6	-18.9	-17.2	-15.8	-14.6	-13.4	-12.3	-11.3	-10.4

Relative Humidity (%)

(700 mb)

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
1.0	56	59	62	65	67	70	73	76	79	82
1.2	54	56	59	62	65	68	71	74	77	80
1.4	52	54	57	60	63	65	68	71	74	77
1.6	49	52	55	57	60	63	66	69	72	75
1.8	47	50	52	55	58	61	64	66	69	72
2.0	45	48	50	53	56	58	61	64	67	70
2.2	43	46	48	51	54	56	59	62	64	67
2.4	41	44	46	49	51	54	57	59	62	65
2.6	39	42	44	47	49	52	55	57	60	63
2.8	37	40	42	45	47	50	52	55	58	60
3.0	35	38	40	43	45	48	50	53	56	58
3.2	34	36	38	41	43	46	48	51	53	56
3.4	32	34	37	39	41	44	46	49	51	54
3.6	30	32	35	37	40	42	45	47	49	52
3.8	28	31	33	35	38	40	43	45	48	50
4.0	27	29	31	34	36	38	41	43	46	48
4.2	25	27	30	32	34	37	39	41	44	46
4.4	24	26	28	30	33	35	37	40	42	44
4.6	22	24	27	29	31	33	36	38	40	42
4.8	21	23	25	27	29	32	34	36	38	41
5.0	19	21	24	26	28	30	32	35	37	39
5.2	18	20	22	24	26	29	31	33	35	37
5.4	17	19	21	23	25	27	29	31	34	36
5.6	15	17	19	21	23	26	28	30	32	34
5.8	14	16	18	20	22	24	26	28	30	33
6.0	13	15	17	19	21	23	25	27	29	31
6.2	11	13	15	17	19	21	23	25	28	30
6.4	10	12	14	16	18	20	22	24	26	28
6.6	9	11	13	15	17	19	21	23	25	27
6.8	8	10	12	14	15	17	19	21	23	25

Wet Bulb -2.0 to -0.2
Dry Bulb +7.0 to +11.6

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
7.0	-24.3	-21.8	-19.8	-18.1	-16.6	-15.2	-13.9	-12.9	-11.8	-10.9
7.2	-25.9	-23.0	-20.9	-19.0	-17.3	-15.9	-14.6	-13.4	-12.3	-11.4
7.4	-27.7	-24.4	-22.0	-19.9	-18.2	-16.6	-15.2	-14.0	-12.9	-11.9
7.6	-30.0	-26.0	-23.3	-21.0	-19.0	-17.4	-15.9	-14.6	-13.4	-12.4
7.8	-32.9	-27.9	-24.7	-22.1	-20.0	-18.2	-16.6	-15.3	-14.0	-12.9
8.0	-37.0	-30.3	-26.4	-23.4	-21.1	-19.1	-17.4	-16.0	-14.6	-13.5
8.2	-44.1	-33.2	-28.4	-24.9	-22.2	-20.1	-18.2	-16.7	-15.3	-14.1
8.4		-37.5	-30.8	-26.6	-23.6	-21.2	-19.1	-17.5	-16.0	-14.7
8.6		-45.2	-34.0	-28.6	-25.0	-22.4	-20.1	-18.3	-16.7	-15.3
8.8			-38.6	-31.1	-26.8	-23.7	-21.2	-19.2	-17.5	-16.0
9.0			-48.0	-34.3	-28.8	-25.2	-22.4	-20.2	-18.3	-16.8
9.2				-39.2	-31.3	-26.9	-23.7	-21.3	-19.2	-17.6
9.4				-49.9	-34.7	-29.0	-25.2	-22.5	-20.2	-18.4
9.6					-39.9	-31.6	-26.9	-23.8	-21.3	-19.3
9.8					-52.2	-35.1	-29.0	-25.4	-22.6	-20.3
10.0						-40.6	-31.6	-27.1	-24.0	-21.4
10.2						-55.3	-35.1	-29.3	-25.5	-22.6
10.4							-40.6	-31.9	-27.3	-24.0
10.6							-55.3	-35.6	-29.5	-25.5
10.8								-41.4	-32.2	-27.3
11.0								-60.6	-36.0	-29.5
11.2									-42.2	-32.2
11.4										-36.0
11.6										-42.2

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
7.0	7	9	10	12	14	16	18	20	22	24
7.2	6	8	9	11	13	15	17	19	21	23
7.4	5	7	8	10	12	14	16	18	20	21
7.6	4	5	7	9	11	13	15	16	18	20
7.8	3	4	6	8	10	12	13	15	17	19
8.0	2	3	5	7	9	10	12	14	16	18
8.2	1	2	4	6	8	9	11	13	15	17
8.4		2	3	5	7	8	10	12	14	15
8.6		1	2	4	6	7	9	11	13	14
8.8			1	3	5	6	8	10	12	13
9.0				2	4	5	7	9	11	12
9.2				1	3	4	6	8	10	11
9.4					2	4	5	7	9	10
9.6					1	3	4	6	8	9
9.8						2	3	5	7	8
10.0						1	3	4	6	7
10.2							2	3	5	6
10.4							1	2	4	6
10.6								2	3	5
10.8								1	2	4
11.0									2	3
11.2									1	2
11.4										1
11.6										1

Table for Use when Wet Bulb is covered with Water

Wet Bulb -24.0 to -22.2
Dry Bulb -24.0 to -20.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-24.0	-23.8	-23.6	-23.4	-23.2	-23.0	-22.8	-22.6	-22.4	-22.2
-24.0	-24.0									
-23.8	-25.2	-23.8								
-23.6	-26.7	-25.1	-23.6							
-23.4	-28.4	-26.4	-24.8	-23.4						
-23.2	-30.2	-28.1	-26.3	-24.7	-23.2					
-23.0	-32.5	-30.0	-27.9	-26.0	-24.4	-23.0				
-22.8	-35.5	-32.3	-29.6	-27.5	-25.8	-24.2	-22.8			
-22.6	-39.0	-34.8	-31.8	-29.4	-27.2	-25.5	-23.9	-22.6		
-22.4	-45.1	-38.5	-34.5	-31.3	-29.0	-27.0	-25.2	-23.8	-22.4	
-22.2		-44.3	-37.7	-33.9	-31.1	-28.6	-26.7	-25.0	-23.5	-22.2
-22.0			-42.9	-37.3	-33.3	-30.6	-28.4	-26.4	-24.8	-23.3
-21.8				-41.6	-36.5	-33.0	-30.2	-28.1	-26.1	-24.6
-21.6					-41.0	-35.8	-32.5	-29.8	-27.7	-26.0
-21.4						-48.0	-40.0	-35.5	-32.0	-29.6
-21.2							-46.9	-39.0	-34.8	-31.5
-21.0								-45.1	-38.5	-34.2
-20.8									-43.5	-37.7
-20.6										-42.2
-20.4										
-20.2										

Wet Bulb -22.0 to -20.2
Dry Bulb -22.0 to -21.2

Dry Bulb °C	Wet Bulb °C									
	-22.0	-21.8	-21.6	-21.4	-21.2	-21.0	-20.8	-20.6	-20.4	-20.2
-22.0	-22.0									
-21.8	-23.1	-21.8								
-21.6	-24.3	-22.8	-21.6							
-21.4	-25.7	-24.0	-22.7	-21.4						
-21.2	-27.0	-25.4	-23.8	-22.5	-21.2					

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-24.0	-23.8	-23.6	-23.4	-23.2	-23.0	-22.8	-22.6	-22.4	-22.2
-24.0	100									
-23.8	88	100								
-23.6	75	87	100							
-23.4	63	76	88	100						
-23.2	53	64	76	88	100					
-23.0	41	53	64	77	88	100				
-22.8	31	42	54	65	77	89	100			
-22.6	21	32	43	54	66	77	89	100		
-22.4	11	22	32	44	55	66	78	89	100	
-22.2	1	12	23	34	44	56	67	78	89	100
-22.0		3	13	24	35	46	56	67	78	89
-21.8			4	15	25	35	47	57	68	78
-21.6				5	16	27	37	48	58	68
-21.4					7	17	27	38	48	59
-21.2						8	19	28	39	49
-21.0							10	19	30	39
-20.8							1	11	21	31
-20.6								3	13	22
-20.4									4	13
-20.2										6

Dry Bulb °C	Wet Bulb °C									
	-22.0	-21.8	-21.6	-21.4	-21.2	-21.0	-20.8	-20.6	-20.4	-20.2
-22.0	100									
-21.8	90	100								
-21.6	79	90	100							
-21.4	68	79	90	100						
-21.2	59	69	80	90	100					

Wet Bulb -22.0 to -20.2
Dry Bulb -21.0 to -17.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-22.0	-21.8	-21.6	-21.4	-21.2	-21.0	-20.8	-20.6	-20.4	-20.2
-21.0	-28.8	-26.9	-25.1	-23.5	-22.3	-21.0				
-20.8	-30.8	-28.4	-26.6	-24.8	-23.3	-22.0	-20.8			
-20.6	-33.0	-30.4	-28.1	-26.3	-24.6	-23.1	-21.8	-20.6		
-20.4	-36.1	-32.8	-30.0	-27.7	-26.0	-24.3	-22.8	-21.6	-20.4	
-20.2	-40.5	-35.5	-32.3	-29.6	-27.5	-25.7	-24.0	-22.6	-21.4	-20.2
-20.0	-48.0	-39.5	-34.8	-31.8	-29.2	-27.2	-25.4	-23.8	-22.4	-21.1
-19.8		-46.0	-38.5	-34.5	-31.3	-28.8	-26.9	-25.1	-23.5	-22.1
-19.6			-44.3	-37.7	-33.9	-30.8	-28.4	-26.6	-24.8	-23.3
-19.4				-42.9	-36.9	-33.3	-30.4	-28.1	-26.1	-24.6
-19.2					-41.6	-36.1	-32.8	-30.0	-27.7	-25.8
-19.0						-40.5	-35.5	-32.3	-29.6	-27.4
-18.8						-48.0	-39.5	-34.8	-31.8	-29.2
-18.6							-46.0	-38.5	-34.2	-31.3
-18.4								-44.3	-37.7	-33.6
-18.2									-42.9	-36.9
-18.0										-41.6
-17.8										-49.2

Wet Bulb -20.0 to -18.2
Dry Bulb -20.0 to -18.2

Dry Bulb °C	Wet Bulb °C									
	-20.0	-19.8	-19.6	-19.4	-19.2	-19.0	-18.8	-18.6	-18.4	-18.2
-20.0	-20.0									
-19.8	-20.9	-19.8								
-19.6	-21.9	-20.7	-19.6							
-19.4	-23.1	-21.7	-20.5	-19.4						
-19.2	-24.3	-22.8	-21.5	-20.3	-19.2					
-19.0	-25.5	-23.9	-22.5	-21.2	-20.0	-19.0				
-18.8	-27.0	-25.2	-23.7	-22.3	-21.0	-19.9	-18.8			
-18.6	-28.8	-26.7	-25.0	-23.4	-22.0	-20.8	-19.7	-18.6		
-18.4	-30.6	-28.4	-26.4	-24.7	-23.2	-21.8	-20.5	-19.4	-18.4	
-18.2	-33.0	-30.2	-27.9	-26.0	-24.3	-22.8	-21.5	-20.3	-19.2	-18.2

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-22.0	-21.8	-21.6	-21.4	-21.2	-21.0	-20.8	-20.6	-20.4	-20.2
-21.0	50	59	70	80	90	100				
-20.8	40	50	60	70	80	90	100			
-20.6	32	41	51	60	71	81	90	100		
-20.4	23	32	42	52	61	71	81	90	100	
-20.2	15	24	33	43	52	62	71	81	90	100
-20.0	6	16	26	34	44	53	62	72	81	91
-19.8		8	17	26	35	45	53	63	72	82
-19.6		1	9	18	27	36	45	54	63	72
-19.4			2	11	20	28	37	46	55	64
-19.2				3	12	21	29	38	47	56
-19.0					4	13	22	30	39	48
-18.8						6	14	23	31	40
-18.6							7	16	24	32
-18.4								8	17	25
-18.2								1	10	18
-18.0									3	11
-17.8										5

Dry Bulb °C	Wet Bulb °C									
	-20.0	-19.8	-19.6	-19.4	-19.2	-19.0	-18.8	-18.6	-18.4	-18.2
-20.0	100									
-19.8	91	100								
-19.6	82	91	100							
-19.4	73	82	91	100						
-19.2	64	73	82	91	100					
-19.0	56	65	74	83	91	100				
-18.8	48	57	65	74	83	91	100			
-18.6	40	49	57	66	74	83	91	100		
-18.4	33	41	49	58	66	74	83	92	100	
-18.2	26	34	42	51	59	67	75	83	92	100

Wet Bulb -20.0 to -18.2
Dry Bulb -18.0 to -15.4

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-20.0	-19.8	-19.6	-19.4	-19.2	-19.0	-18.8	-18.6	-18.4	-18.2
-18.0	-36.1	-32.5	-29.8	-27.5	-25.7	-24.0	-22.6	-21.3	-20.1	-19.0
-17.8	-40.5	-35.5	-32.0	-29.4	-27.2	-25.4	-23.8	-22.4	-21.0	-19.9
-17.6	-46.9	-39.0	-34.8	-31.5	-29.0	-26.9	-25.0	-23.4	-22.0	-20.8
-17.4		-45.1	-38.1	-33.9	-30.8	-28.4	-26.4	-24.7	-23.2	-21.8
-17.2			-43.5	-37.3	-33.3	-30.4	-28.1	-26.1	-24.4	-22.8
-17.0				-42.2	-36.5	-32.8	-30.0	-27.7	-25.7	-24.0
-16.8					-41.0	-35.8	-32.0	-29.4	-27.2	-25.4
-16.6					-48.0	-39.5	-34.8	-31.5	-29.0	-26.9
-16.4						-46.0	-38.5	-34.2	-31.1	-28.4
-16.2							-44.3	-37.7	-33.3	-30.4
-16.0								-42.2	-36.5	-32.8
-15.8									-41.0	-35.8
-15.6									-49.2	-39.5
-15.4										-46.0

Wet Bulb -18.0 to -16.2
Dry Bulb -18.0 to -16.2

Dry Bulb °C	Wet Bulb °C									
	-18.0	-17.8	-17.6	-17.4	-17.2	-17.0	-16.8	-16.6	-16.4	-16.2
-18.0	-18.0									
-17.8	-18.8	-17.8								
-17.6	-19.7	-18.5	-17.6							
-17.4	-20.5	-19.4	-18.4	-17.4						
-17.2	-21.5	-20.3	-19.2	-18.1	-17.2					
-17.0	-22.6	-21.3	-20.0	-19.0	-18.0	-17.0				
-16.8	-23.8	-22.3	-21.0	-19.9	-18.7	-17.7	-16.8			
-16.6	-25.1	-23.4	-22.0	-20.8	-19.6	-18.5	-17.5	-16.6		
-16.4	-26.4	-24.7	-23.2	-21.7	-20.5	-19.3	-18.3	-17.3	-16.4	
-16.2	-28.1	-26.1	-24.3	-22.8	-21.5	-20.2	-19.1	-18.1	-17.1	-16.2

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-20.0	-19.8	-19.6	-19.4	-19.2	-19.0	-18.8	-18.6	-18.4	-18.2
-18.0	19	27	35	43	51	59	67	75	83	92
-17.8	12	20	28	36	44	52	59	67	76	84
-17.6	6	14	21	29	36	44	53	60	68	76
-17.4		7	15	22	30	38	45	53	61	68
-17.2		1	8	16	23	31	38	46	53	62
-17.0			2	9	17	24	32	39	47	54
-16.8				3	10	18	26	33	40	47
-16.6					5	12	19	26	33	41
-16.4						6	13	20	27	35
-16.2							7	14	21	28
-16.0								2	9	15
-15.8									3	10
-15.6										4
-15.4										5

Dry Bulb °C	Wet Bulb °C									
	-18.0	-17.8	-17.6	-17.4	-17.2	-17.0	-16.8	-16.6	-16.4	-16.2
-18.0	100									
-17.8	92	100								
-17.6	84	92	100							
-17.4	77	84	92	100						
-17.2	69	77	84	92	100					
-17.0	62	69	77	85	92	100				
-16.8	55	63	70	77	85	92	100			
-16.6	48	56	63	70	78	85	93	100		
-16.4	42	49	56	63	71	78	85	93	100	
-16.2	35	42	50	57	64	71	78	86	93	100

Wet Bulb -18.0 to -16.2
Dry Bulb -16.0 to -12.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-18.0	-17.8	-17.6	-17.4	-17.2	-17.0	-16.8	-16.6	-16.4	-16.2
-16.0	-30.0	-27.5	-25.7	-24.0	-22.5	-21.2	-19.9	-18.9	-17.8	-16.9
-15.8	-32.3	-29.4	-27.2	-25.4	-23.7	-22.3	-20.9	-19.8	-18.6	-17.6
-15.6	-34.8	-31.5	-29.0	-26.7	-25.0	-23.4	-21.9	-20.6	-19.5	-18.4
-15.4	-38.5	-34.2	-30.8	-28.4	-26.4	-24.6	-23.1	-21.6	-20.4	-19.2
-15.2	-44.3	-37.7	-33.3	-30.4	-27.9	-26.0	-24.3	-22.7	-21.3	-20.1
-15.0		-42.2	-36.5	-32.8	-29.8	-27.5	-25.5	-23.9	-22.4	-21.1
-14.8			-41.0	-35.5	-32.0	-29.4	-27.0	-25.2	-23.5	-22.0
-14.6			-48.0	-39.5	-34.8	-31.3	-28.8	-26.6	-24.8	-23.2
-14.4				-46.0	-38.5	-33.9	-30.8	-28.2	-26.3	-24.4
-14.2					-43.5	-37.3	-33.0	-30.2	-27.7	-25.8
-14.0						-42.2	-36.1	-32.5	-29.6	-27.2
-13.8							-40.5	-35.1	-31.8	-29.0
-13.6							-48.0	-39.0	-34.5	-31.1
-13.4								-45.1	-37.7	-33.6
-13.2									-42.9	-36.9
-13.0										-41.0
-12.8										-49.2

Wet Bulb -16.0 to -14.2
Dry Bulb -16.0 to -14.2

Dry Bulb °C	Wet Bulb °C									
	-16.0	-15.8	-15.6	-15.4	-15.2	-15.0	-14.8	-14.6	-14.4	-14.2
-16.0	-16.0									
-15.8	-16.7	-15.8								
-15.6	-17.4	-16.5	-15.6							
-15.4	-18.1	-17.2	-16.3	-15.4						
-15.2	-19.0	-17.9	-17.0	-16.1	-15.2					
-15.0	-19.9	-18.7	-17.7	-16.8	-15.9	-15.0				
-14.8	-20.8	-19.6	-18.5	-17.4	-16.6	-15.7	-14.8			
-14.6	-21.8	-20.5	-19.3	-18.2	-17.2	-16.3	-15.4	-14.6		
-14.4	-22.8	-21.5	-20.2	-19.1	-18.0	-17.0	-16.1	-15.2	-14.4	
-14.2	-24.0	-22.5	-21.2	-19.9	-18.8	-17.7	-16.8	-15.9	-15.0	-14.2

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-18.0	-17.8	-17.6	-17.4	-17.2	-17.0	-16.8	-16.6	-16.4	-16.2
-16.0	29	36	43	50	57	64	72	78	86	93
-15.8	23	30	37	44	51	58	65	72	79	86
-15.6	18	24	31	38	45	51	58	65	72	79
-15.4	12	18	25	32	38	45	52	59	65	72
-15.2	6	13	20	26	33	39	46	53	60	66
-15.0	1	8	14	20	27	33	40	47	53	60
-14.8		3	9	15	22	28	34	41	47	54
-14.6			4	10	16	23	29	35	42	48
-14.4				5	11	17	23	30	36	42
-14.2					6	12	19	24	31	37
-14.0					1	7	13	19	26	32
-13.8						3	9	15	20	27
-13.6							4	10	15	21
-13.4								5	11	17
-13.2									6	12
-13.0										8
-12.8									2	3

Dry Bulb °C	Wet Bulb °C									
	-16.0	-15.8	-15.6	-15.4	-15.2	-15.0	-14.8	-14.6	-14.4	-14.2
-16.0	100									
-15.8	93	100								
-15.6	86	93	100							
-15.4	79	86	93	100						
-15.2	73	80	86	93	100					
-15.0	66	73	80	86	93	100				
-14.8	60	67	74	80	86	93	100			
-14.6	54	61	67	74	80	87	94	100		
-14.4	49	55	61	68	74	81	87	94	100	
-14.2	43	49	55	62	68	74	81	87	94	100

Wet Bulb -16.0 to -14.2
Dry Bulb -14.0 to -10.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-16.0	-15.8	-15.6	-15.4	-15.2	-15.0	-14.8	-14.6	-14.4	-14.2
-14.0	-25.4	-23.7	-22.1	-20.9	-19.7	-18.5	-17.5	-16.6	-15.7	-14.8
-13.8	-26.9	-25.0	-23.3	-21.8	-20.6	-19.4	-18.3	-17.3	-16.3	-15.4
-13.6	-28.4	-26.4	-24.6	-22.9	-21.5	-20.2	-19.1	-18.0	-17.0	-16.1
-13.4	-30.4	-27.9	-26.0	-24.2	-22.6	-21.2	-19.9	-18.8	-17.7	-16.8
-13.2	-32.8	-29.8	-27.5	-25.5	-23.8	-22.3	-20.9	-19.7	-18.5	-17.5
-13.0	-35.8	-32.0	-29.2	-27.0	-25.1	-23.4	-21.9	-20.6	-19.4	-18.3
-12.8	-40.0	-34.8	-31.3	-28.6	-26.4	-24.7	-23.1	-21.6	-20.3	-19.1
-12.6	-46.0	-38.5	-33.9	-30.6	-28.1	-26.0	-24.2	-22.6	-21.2	-19.9
-12.4		-43.5	-37.3	-33.0	-30.0	-27.5	-25.5	-23.8	-22.3	-20.9
-12.2			-41.6	-36.1	-32.3	-29.4	-27.0	-25.1	-23.4	-21.9
-12.0				-40.0	-35.1	-31.5	-28.8	-26.6	-24.7	-23.1
-11.8				-46.9	-38.5	-34.2	-30.8	-28.2	-26.1	-24.3
-11.6					-44.3	-37.3	-33.0	-30.0	-27.5	-25.5
-11.4						-42.2	-36.1	-32.3	-29.4	-27.0
-11.2							-40.5	-35.1	-31.5	-28.8
-11.0							-48.0	-39.0	-34.2	-30.8
-10.8								-45.1	-37.7	-33.3
-10.6									-42.2	-36.1
-10.4										-40.5
-10.2										-48.0

Wet Bulb -14.0 to -12.2
Dry Bulb -14.0 to -13.2

Dry Bulb °C	Wet Bulb °C									
	-14.0	-13.8	-13.6	-13.4	-13.2	-13.0	-12.8	-12.6	-12.4	-12.2
-14.0	-14.0									
-13.8	-14.6	-13.8								
-13.6	-15.2	-14.4	-13.6							
-13.4	-15.9	-15.0	-14.2	-13.4						
-13.2	-16.6	-15.6	-14.8	-14.0	-13.2					

Relative Humidity (%) (700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-16.0	-15.8	-15.6	-15.4	-15.2	-15.0	-14.8	-14.6	-14.4	-14.2
-14.0	38	44	50	56	62	68	75	81	87	94
-13.8	32	38	45	51	56	63	69	75	81	88
-13.6	28	33	39	45	51	57	63	69	76	82
-13.4	22	28	34	40	46	52	58	64	70	76
-13.2	18	23	29	35	41	46	52	58	64	70
-13.0	13	19	24	30	36	41	47	53	59	64
-12.8	8	14	20	25	31	36	42	48	53	59
-12.6	4	9	15	21	26	32	37	43	49	54
-12.4		6	11	16	22	27	33	38	44	49
-12.2		11	7	12	17	22	28	33	39	44
-12.0			2	8	13	18	23	29	34	39
-11.8				4	9	14	19	24	29	35
-11.6					5	10	15	20	25	31
-11.4					1	6	11	16	21	26
-11.2						2	7	12	17	22
-11.0							3	8	13	18
-10.8								4	9	14
-10.6								1	5	10
-10.4									2	6
-10.2										3

Dry Bulb °C	Wet Bulb °C									
	-14.0	-13.8	-13.6	-13.4	-13.2	-13.0	-12.8	-12.6	-12.4	-12.2
-14.0	100									
-13.8	94	100								
-13.6	88	94	100							
-13.4	82	88	94	100						
-13.2	76	82	88	94	100					

Wet Bulb -14.0 to -12.2
Dry Bulb -13.0 to -7.4

Dew Point °C

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-14.0	-13.8	-13.6	-13.4	-13.2	-13.0	-12.8	-12.6	-12.4	-12.2
-13.0	-17.2	-16.3	-15.4	-14.6	-13.7	-13.0				
-12.8	-18.0	-17.0	-16.1	-15.2	-14.3	-13.6	-12.8			
-12.6	-18.8	-17.7	-16.8	-15.8	-14.9	-14.1	-13.3	-12.6		
-12.4	-19.7	-18.5	-17.4	-16.5	-15.6	-14.7	-13.9	-13.1	-12.4	
-12.2	-20.6	-19.4	-18.2	-17.2	-16.3	-15.3	-14.5	-13.7	-12.9	-12.2
-12.0	-21.6	-20.2	-19.1	-18.0	-16.9	-16.0	-15.1	-14.3	-13.5	-12.7
-11.8	-22.6	-21.2	-19.9	-18.8	-17.7	-16.7	-15.7	-14.9	-14.0	-13.2
-11.6	-23.8	-22.3	-20.9	-19.6	-18.5	-17.4	-16.4	-15.5	-14.6	-13.8
-11.4	-25.1	-23.4	-21.9	-20.5	-19.3	-18.1	-17.1	-16.1	-15.3	-14.4
-11.2	-26.6	-24.7	-22.9	-21.5	-20.2	-19.0	-17.9	-16.8	-15.9	-15.0
-11.0	-28.2	-26.0	-24.2	-22.6	-21.2	-19.9	-18.7	-17.6	-16.6	-15.7
-10.8	-30.0	-27.5	-25.5	-23.8	-22.1	-20.8	-19.5	-18.4	-17.3	-16.3
-10.6	-32.3	-29.4	-27.0	-25.1	-23.3	-21.8	-20.4	-19.2	-18.1	-17.0
-10.4	-35.1	-31.5	-28.8	-26.4	-24.6	-22.9	-21.4	-20.1	-18.9	-17.7
-10.2	-39.0	-34.2	-30.6	-28.1	-26.0	-24.0	-22.5	-21.0	-19.8	-18.5
-10.0	-45.1	-37.3	-33.0	-30.0	-27.5	-25.4	-23.7	-22.0	-20.7	-19.4
-9.8		-42.2	-36.1	-32.3	-29.2	-26.9	-25.0	-23.2	-21.6	-20.3
-9.6			-40.5	-35.1	-31.3	-28.6	-26.3	-24.4	-22.7	-21.3
-9.4			-48.0	-38.5	-33.9	-30.6	-27.9	-25.8	-23.9	-22.4
-9.2				-44.3	-37.3	-33.0	-29.8	-27.4	-25.2	-23.4
-9.0					-42.2	-35.8	-32.0	-29.0	-26.7	-24.7
-8.8						-40.0	-34.8	-31.1	-28.4	-26.1
-8.6						-46.9	-38.5	-33.6	-30.2	-27.7
-8.4							-43.5	-36.9	-32.5	-29.6
-8.2								-41.6	-35.5	-31.8
-8.0									-39.5	-34.2
-7.8									-46.0	-37.7
-7.6										-42.9

Dry Bulb °C	Wet Bulb °C									
	-14.0	-13.8	-13.6	-13.4	-13.2	-13.0	-12.8	-12.6	-12.4	-12.2
-13.0	71	76	82	88	94	100				
-12.8	65	71	76	82	88	94	100			
-12.6	60	65	71	77	83	89	94	100		
-12.4	55	60	66	72	77	83	89	94	100	
-12.2	50	55	61	66	72	77	83	89	94	100
-12.0	45	50	56	61	67	72	78	83	89	94
-11.8	40	46	51	56	62	67	73	78	83	89
-11.6	36	41	46	52	57	62	67	73	78	84
-11.4	31	36	41	47	52	57	62	68	73	78
-11.2	27	32	37	42	47	53	58	63	68	73
-11.0	23	28	33	38	43	48	53	58	64	68
-10.8	19	24	29	33	39	44	49	54	59	64
-10.6	15	20	25	29	34	39	44	49	54	59
-10.4	11	16	21	26	30	35	40	45	50	55
-10.2	7	12	17	22	26	31	36	41	45	50
-10.0	4	9	13	18	22	27	32	37	41	46
-9.8	1	5	10	14	19	23	28	33	37	42
-9.6		2	6	10	15	20	24	29	34	38
-9.4			3	7	12	16	21	25	30	34
-9.2				4	8	12	17	21	26	31
-9.0					5	9	14	18	22	27
-8.8					2	6	10	15	19	23
-8.6						3	7	11	16	20
-8.4							4	8	12	16
-8.2								1	5	9
-8.0									2	6
-7.8										3
-7.6										4
										1

Wet Bulb -12.0 to -10.2
Dry Bulb -12.0 to -6.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-12.0	-12.0									
-11.8	-12.5	-11.8								
-11.6	-13.1	-12.3	-11.6							
-11.4	-13.6	-12.8	-12.1	-11.4						
-11.2	-14.2	-13.3	-12.6	-11.9	-11.2					
-11.0	-14.8	-13.9	-13.1	-12.4	-11.7	-11.0				
-10.8	-15.4	-14.5	-13.7	-12.9	-12.2	-11.5	-10.8			
-10.6	-16.1	-15.1	-14.3	-13.5	-12.7	-12.0	-11.3	-10.6		
-10.4	-16.8	-15.8	-14.9	-14.0	-13.2	-12.5	-11.8	-11.1	-10.4	
-10.2	-17.4	-16.5	-15.5	-14.6	-13.8	-13.0	-12.3	-11.6	-10.9	-10.2
-10.0	-18.2	-17.2	-16.2	-15.3	-14.4	-13.6	-12.8	-12.1	-11.3	-10.6
-9.8	-19.1	-17.9	-16.9	-15.9	-15.0	-14.2	-13.3	-12.5	-11.8	-11.1
-9.6	-19.9	-18.7	-17.6	-16.6	-15.7	-14.8	-13.9	-13.1	-12.3	-11.6
-9.4	-20.9	-19.6	-18.4	-17.3	-16.3	-15.3	-14.5	-13.6	-12.8	-12.1
-9.2	-21.9	-20.5	-19.2	-18.1	-17.0	-16.0	-15.1	-14.2	-13.4	-12.6
-9.0	-22.9	-21.5	-20.1	-18.9	-17.7	-16.7	-15.7	-14.8	-14.0	-13.1
-8.8	-24.2	-22.6	-21.1	-19.8	-18.5	-17.4	-16.4	-15.5	-14.6	-13.7
-8.6	-25.5	-23.7	-22.1	-20.7	-19.4	-18.2	-17.1	-16.1	-15.1	-14.3
-8.4	-27.0	-25.0	-23.2	-21.7	-20.3	-19.1	-17.9	-16.8	-15.8	-14.9
-8.2	-28.8	-26.4	-24.4	-22.7	-21.3	-19.9	-18.6	-17.5	-16.5	-15.5
-8.0	-30.8	-28.1	-25.8	-23.9	-22.3	-20.8	-19.5	-18.3	-17.2	-16.2
-7.8	-33.3	-30.0	-27.4	-25.2	-23.4	-21.8	-20.4	-19.1	-18.0	-16.9
-7.6	-36.1	-32.3	-29.2	-26.7	-24.7	-22.9	-21.4	-20.0	-18.8	-17.6
-7.4	-40.5	-34.8	-31.3	-28.4	-26.1	-24.2	-22.5	-21.0	-19.7	-18.4
-7.2	-48.0	-38.5	-33.9	-30.4	-27.7	-25.5	-23.7	-22.0	-20.5	-19.2
-7.0		-44.3	-36.9	-32.8	-29.6	-27.0	-25.0	-23.2	-21.5	-20.1
-6.8			-41.6	-35.5	-31.5	-28.8	-26.3	-24.3	-22.6	-21.1
-6.6				-39.5	-34.2	-30.6	-27.9	-25.7	-23.8	-22.1
-6.4				-46.0	-37.7	-33.0	-29.8	-27.2	-25.1	-23.3
-6.2					-42.9	-36.1	-32.0	-29.0	-26.6	-24.4

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-12.0	100									
-11.8	94	100								
-11.6	89	94	100							
-11.4	84	89	94	100						
-11.2	79	84	89	95	100					
-11.0	74	79	84	89	95	100				
-10.8	69	74	79	84	90	95	100			
-10.6	64	69	74	79	85	90	95	100		
-10.4	59	65	70	75	80	85	90	95	100	
-10.2	55	60	65	70	75	80	85	90	95	100
-10.0	51	56	60	65	70	75	80	85	90	95
-9.8	47	52	56	61	66	70	75	80	85	90
-9.6	43	47	52	57	61	66	71	76	81	85
-9.4	39	43	48	53	57	62	67	71	76	81
-9.2	35	39	44	49	53	58	62	67	72	76
-9.0	31	36	40	45	49	54	58	63	67	72
-8.8	28	32	36	41	45	50	54	58	63	68
-8.6	24	28	33	37	41	46	50	54	59	64
-8.4	21	25	29	33	38	42	46	51	55	59
-8.2	17	22	26	30	34	38	43	47	51	56
-8.0	14	18	22	27	31	35	39	43	47	52
-7.8	11	15	19	23	27	31	36	40	44	48
-7.6	8	12	16	20	24	28	32	36	40	45
-7.4	5	9	13	17	21	25	29	33	37	41
-7.2	2	6	10	14	18	22	26	29	34	38
-7.0		3	7	11	15	19	22	26	30	34
-6.8		1	4	8	12	16	20	23	27	31
-6.6			2	5	9	13	17	20	24	28
-6.4				3	6	10	14	17	21	25
-6.2					4	7	11	15	18	22

Wet Bulb -12.0 to -10.2
Dry Bulb -6.0 to -4.6

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-6.0						-40.5	-34.8	-31.1	-28.2	-25.8
-5.8						-48.0	-38.5	-33.6	-30.0	-27.4
-5.6							-44.3	-36.9	-32.3	-29.2
-5.4								-41.0	-35.1	-31.3
-5.2								-49.2	-39.0	-33.9
-5.0									-45.1	-37.3
-4.8										-42.2

Wet Bulb -10.0 to -8.2
Dry Bulb -10.0 to -7.2

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-10.0	-10.0									
-9.8	-10.5	-9.8								
-9.6	-10.9	-10.2	-9.6							
-9.4	-11.4	-10.7	-10.0	-9.4						
-9.2	-11.9	-11.2	-10.5	-9.8	-9.2					
-9.0	-12.4	-11.7	-10.9	-10.3	-9.6	-9.0				
-8.8	-12.9	-12.2	-11.4	-10.7	-10.1	-9.4	-8.8			
-8.6	-13.5	-12.6	-11.9	-11.2	-10.5	-9.8	-9.2	-8.6		
-8.4	-14.0	-13.2	-12.4	-11.7	-11.0	-10.3	-9.6	-9.0	-8.4	
-8.2	-14.6	-13.7	-13.0	-12.2	-11.5	-10.7	-10.1	-9.4	-8.8	-8.2
-8.0	-15.2	-14.3	-13.5	-12.7	-11.9	-11.2	-10.5	-9.8	-9.2	-8.6
-7.8	-15.9	-14.9	-14.0	-13.2	-12.4	-11.7	-11.0	-10.3	-9.6	-9.0
-7.6	-16.6	-15.6	-14.6	-13.8	-13.0	-12.2	-11.5	-10.7	-10.1	-9.4
-7.4	-17.3	-16.3	-15.3	-14.4	-13.5	-12.7	-12.0	-11.2	-10.5	-9.8
-7.2	-18.1	-16.9	-15.9	-15.0	-14.1	-13.2	-12.4	-11.7	-11.0	-10.3

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-12.0	-11.8	-11.6	-11.4	-11.2	-11.0	-10.8	-10.6	-10.4	-10.2
-6.0					1	5	8	12	15	19
-5.8						2	6	9	13	16
-5.6							3	6	10	14
-5.4							1	4	8	11
-5.2								2	5	8
-5.0									3	6
-4.8										4
-4.6										1

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-10.0	100									
-9.8	95	100								
-9.6	90	95	100							
-9.4	86	90	95	100						
-9.2	81	86	91	95	100					
-9.0	77	81	86	90	95	100				
-8.8	72	77	81	86	91	95	100			
-8.6	68	73	77	82	86	91	95	100		
-8.4	64	68	73	77	82	86	91	96	100	
-8.2	60	64	69	73	77	82	86	91	96	100
-8.0	56	60	65	69	73	78	82	87	91	96
-7.8	52	56	61	65	69	74	78	82	87	91
-7.6	49	53	57	61	65	70	74	78	83	87
-7.4	45	49	53	57	62	66	70	74	78	83
-7.2	42	46	50	54	58	62	66	70	74	79

Wet Bulb -10.0 to -8.2
 Dry Bulb -7.0 to -1.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-7.0	-18.9	-17.7	-16.6	-15.6	-14.7	-13.8	-13.0	-12.2	-11.5	-10.7
-6.8	-19.8	-18.5	-17.4	-16.3	-15.3	-14.4	-13.5	-12.7	-12.0	-11.2
-6.6	-20.6	-19.3	-18.1	-17.0	-16.0	-15.0	-14.1	-13.2	-12.4	-11.7
-6.4	-21.6	-20.2	-19.0	-17.7	-16.6	-15.7	-14.7	-13.8	-13.0	-12.2
-6.2	-22.7	-21.2	-19.8	-18.5	-17.4	-16.3	-15.3	-14.4	-13.5	-12.7
-6.0	-23.9	-22.3	-20.7	-19.4	-18.1	-17.1	-16.0	-15.0	-14.1	-13.2
-5.8	-25.2	-23.4	-21.7	-20.3	-19.0	-17.7	-16.7	-15.7	-14.7	-13.8
-5.6	-26.7	-24.6	-22.8	-21.3	-19.9	-18.5	-17.4	-16.3	-15.3	-14.4
-5.4	-28.4	-26.0	-24.0	-22.3	-20.8	-19.4	-18.1	-17.1	-16.0	-15.0
-5.2	-30.4	-27.5	-25.4	-23.4	-21.8	-20.3	-19.0	-17.8	-16.7	-15.7
-5.0	-32.5	-29.4	-26.9	-24.7	-22.9	-21.3	-19.9	-18.5	-17.4	-16.3
-4.8	-35.5	-31.5	-28.6	-26.1	-24.0	-22.4	-20.8	-19.4	-18.1	-17.1
-4.6	-39.5	-34.2	-30.4	-27.7	-25.4	-23.5	-21.8	-20.3	-19.0	-17.7
-4.4	-46.0	-37.7	-32.8	-29.6	-26.9	-24.8	-22.9	-21.3	-19.9	-18.5
-4.2		-42.9	-35.8	-31.8	-28.6	-26.1	-24.2	-22.4	-20.8	-19.4
-4.0			-40.0	-34.5	-30.6	-27.7	-25.5	-23.5	-21.8	-20.3
-3.8			-46.9	-37.7	-33.0	-29.6	-27.0	-24.8	-22.9	-21.3
-3.6				-42.9	-36.1	-31.8	-28.6	-26.3	-24.2	-22.4
-3.4					-40.5	-34.5	-30.6	-27.9	-25.5	-23.5
-3.2						-48.0	-38.1	-33.0	-29.6	-24.8
-3.0							-43.5	-36.1	-31.8	-28.8
-2.8								-40.5	-34.5	-30.6
-2.6								-48.0	-38.1	-33.0
-2.4									-43.5	-36.1
-2.2										-40.5
-2.0										
-1.8										

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-10.0	-9.8	-9.6	-9.4	-9.2	-9.0	-8.8	-8.6	-8.4	-8.2
-7.0	38	42	46	50	54	58	62	66	70	75
-6.8	35	39	43	47	51	55	59	63	67	71
-6.6	32	36	39	43	47	51	55	59	63	67
-6.4	29	32	36	40	44	48	52	56	60	64
-6.2	26	29	33	37	41	44	48	52	56	60
-6.0	23	26	30	34	38	41	45	49	53	57
-5.8	20	23	27	31	35	38	42	46	49	53
-5.6	17	21	24	28	32	35	39	42	46	50
-5.4	14	18	22	25	29	32	36	39	43	47
-5.2	12	15	19	22	26	29	33	36	40	44
-5.0	9	13	16	20	23	27	30	34	37	41
-4.8	7	10	14	17	21	24	27	31	34	38
-4.6	5	8	11	15	18	21	25	28	32	35
-4.4	2	5	9	12	15	19	22	25	29	32
-4.2		3	6	10	13	16	19	23	26	29
-4.0		1	4	7	11	14	17	20	24	27
-3.8			2	5	8	11	15	18	21	24
-3.6				3	6	9	12	15	19	22
-3.4				1	4	7	10	13	16	19
-3.2					2	5	8	11	14	17
-3.0						3	6	9	12	15
-2.8						1	4	7	10	13
-2.6							2	5	8	11
-2.4								3	5	8
-2.2								1	3	6
-2.0									2	4
-1.8										2
-1.6										1

Wet Bulb -8.0 to -6.2
Dry Bulb -8.0 to -2.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-8.0	-8.0									
-7.8	-8.4	-7.8								
-7.6	-8.8	-8.2	-7.6							
-7.4	-9.2	-8.6	-8.0	-7.4						
-7.2	-9.6	-9.0	-8.3	-7.8	-7.2					
-7.0	-10.1	-9.4	-8.7	-8.1	-7.6	-7.0				
-6.8	-10.5	-9.8	-9.2	-8.5	-8.0	-7.4	-6.8			
-6.6	-10.9	-10.2	-9.6	-8.9	-8.3	-7.7	-7.2	-6.6		
-6.4	-11.4	-10.7	-10.0	-9.4	-8.7	-8.1	-7.5	-7.0	-6.4	
-6.2	-11.9	-11.2	-10.5	-9.8	-9.1	-8.5	-7.9	-7.3	-6.7	-6.2
-6.0	-12.4	-11.7	-10.9	-10.2	-9.5	-8.9	-8.3	-7.7	-7.1	-6.5
-5.8	-13.0	-12.2	-11.4	-10.6	-10.0	-9.3	-8.7	-8.1	-7.5	-6.9
-5.6	-13.5	-12.7	-11.9	-11.1	-10.4	-9.7	-9.1	-8.5	-7.8	-7.2
-5.4	-14.1	-13.2	-12.4	-11.6	-10.9	-10.2	-9.5	-8.8	-8.2	-7.6
-5.2	-14.7	-13.8	-12.9	-12.1	-11.4	-10.6	-9.9	-9.2	-8.6	-8.0
-5.0	-15.3	-14.4	-13.5	-12.6	-11.9	-11.1	-10.4	-9.7	-9.0	-8.4
-4.8	-15.9	-14.9	-14.0	-13.2	-12.4	-11.6	-10.8	-10.1	-9.4	-8.8
-4.6	-16.6	-15.6	-14.6	-13.7	-12.9	-12.1	-11.3	-10.6	-9.8	-9.2
-4.4	-17.4	-16.3	-15.3	-14.3	-13.4	-12.6	-11.8	-11.0	-10.3	-9.6
-4.2	-18.1	-17.0	-15.9	-14.9	-14.0	-13.1	-12.3	-11.5	-10.7	-10.1
-4.0	-19.0	-17.7	-16.6	-15.6	-14.6	-13.7	-12.8	-12.0	-11.2	-10.5
-3.8	-19.9	-18.5	-17.4	-16.3	-15.2	-14.3	-13.3	-12.5	-11.7	-10.9
-3.6	-20.8	-19.4	-18.1	-16.9	-15.9	-14.9	-13.9	-13.1	-12.2	-11.4
-3.4	-21.8	-20.3	-19.0	-17.7	-16.6	-15.5	-14.5	-13.6	-12.7	-11.9
-3.2	-22.9	-21.3	-19.8	-18.5	-17.3	-16.2	-15.1	-14.2	-13.3	-12.4
-3.0	-24.2	-22.4	-20.7	-19.3	-18.1	-16.8	-15.8	-14.8	-13.9	-13.0
-2.8	-25.4	-23.4	-21.7	-20.2	-18.9	-17.6	-16.5	-15.4	-14.5	-13.5
-2.6	-26.9	-24.7	-22.8	-21.2	-19.8	-18.4	-17.2	-16.1	-15.1	-14.1
-2.4	-28.6	-26.1	-24.0	-22.3	-20.7	-19.2	-18.0	-16.8	-15.7	-14.7
-2.2	-30.6	-27.7	-25.4	-23.4	-21.6	-20.1	-18.8	-17.5	-16.3	-15.3

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-8.0	100									
-7.8	96	100								
-7.6	91	96	100							
-7.4	87	91	96	100						
-7.2	83	87	91	96	100					
-7.0	79	83	87	91	96	100				
-6.8	75	79	83	87	91	96	100			
-6.6	71	75	79	83	88	92	96	100		
-6.4	68	72	75	79	84	88	92	96	100	
-6.2	64	68	72	76	80	84	88	92	96	100
-6.0	60	64	68	72	76	80	84	88	92	96
-5.8	57	61	65	69	72	76	80	84	88	92
-5.6	54	57	61	65	69	73	76	80	84	88
-5.4	50	54	58	62	65	69	73	77	80	84
-5.2	47	51	55	58	62	66	69	73	77	81
-5.0	44	48	51	55	59	62	66	70	73	77
-4.8	41	45	48	52	55	59	63	66	70	74
-4.6	38	42	45	49	52	56	59	63	67	70
-4.4	36	39	42	46	49	53	56	60	63	67
-4.2	33	36	40	43	46	50	53	57	60	64
-4.0	30	33	37	40	44	47	50	54	57	61
-3.8	28	31	34	37	41	44	47	51	54	58
-3.6	25	28	31	35	38	41	45	48	51	55
-3.4	23	26	29	32	35	38	42	45	48	52
-3.2	20	23	27	30	33	36	39	42	46	49
-3.0	18	21	24	27	30	33	37	40	43	46
-2.8	16	19	22	25	28	31	34	37	40	43
-2.6	13	16	19	22	25	29	32	35	38	41
-2.4	11	14	17	20	23	26	29	32	35	38
-2.2	9	12	15	18	21	24	27	30	33	36

Wet Bulb -8.0 to -6.2
Dry Bulb -2.0 to +1.4

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-2.0	-33.0	-29.6	-26.9	-24.7	-22.7	-21.1	-19.7	-18.3	-17.1	-16.0
-1.8	-36.1	-31.8	-28.6	-26.1	-23.9	-22.1	-20.5	-19.1	-17.8	-16.7
-1.6	-40.5	-34.5	-30.6	-27.7	-25.2	-23.3	-21.5	-20.0	-18.6	-17.4
-1.4	-48.0	-38.1	-33.0	-29.4	-26.7	-24.6	-22.6	-21.0	-19.5	-18.1
-1.2		-43.5	-35.8	-31.5	-28.4	-26.0	-23.8	-22.0	-20.4	-19.0
-1.0			-40.0	-34.2	-30.4	-27.5	-25.1	-23.2	-21.4	-19.9
-0.8			-46.9	-37.7	-32.8	-29.4	-26.6	-24.4	-22.5	-20.8
-0.6				-42.9	-35.8	-31.3	-28.2	-25.7	-23.7	-21.8
-0.4					-40.0	-33.9	-30.2	-27.2	-25.0	-22.9
-0.2					-46.9	-37.3	-32.5	-29.0	-26.4	-24.2
0.0						-42.2	-35.5	-31.1	-28.1	-25.5
0.2							-39.5	-33.6	-30.0	-27.0
0.4							-46.0	-36.9	-32.0	-28.8
0.6								-41.6	-34.8	-30.8
0.8									-38.5	-33.3
1.0									-44.3	-36.5
1.2										-41.0
1.4										-48.0

Wet Bulb -6.0 to -4.2
Dry Bulb -6.0 to -5.2

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-6.0	-6.0									
-5.8	-6.3	-5.8								
-5.6	-6.7	-6.1	-5.6							
-5.4	-7.0	-6.5	-5.9	-5.4						
-5.2	-7.4	-6.8	-6.3	-5.7	-5.2					

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-8.0	-7.8	-7.6	-7.4	-7.2	-7.0	-6.8	-6.6	-6.4	-6.2
-2.0	7	10	13	16	19	22	24	27	31	33
-1.8	5	8	11	14	17	19	22	25	28	31
-1.6	3	6	9	12	15	17	20	23	26	29
-1.4	1	4	7	10	13	15	18	21	24	27
-1.2		2	5	8	11	13	16	19	22	24
-1.0		1	3	6	9	11	14	17	20	22
-0.8			2	4	7	9	12	15	18	20
-0.6				2	5	8	10	13	16	18
-0.4				1	3	6	8	11	14	16
-0.2					1	4	7	9	12	14
0.0						2	5	8	10	13
0.2						1	3	6	8	11
0.4							2	4	7	9
0.6								3	5	7
0.8								1	3	6
1.0									2	4
1.2										3
1.4										1

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-6.0	100									
-5.8	96	100								
-5.6	92	96	100							
-5.4	88	92	96	100						
-5.2	85	88	92	96	100					

Wet Bulb -6.0 to -4.2
 Dry Bulb -5.0 to +0.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-5.0	-7.8	-7.2	-6.6	-6.1	-5.5	-5.0				
-4.8	-8.1	-7.5	-7.0	-6.4	-5.9	-5.3	-4.8			
-4.6	-8.5	-7.9	-7.3	-6.7	-6.2	-5.6	-5.1	-4.6		
-4.4	-8.9	-8.3	-7.7	-7.1	-6.5	-6.0	-5.4	-4.9	-4.4	
-4.2	-9.4	-8.7	-8.1	-7.5	-6.9	-6.3	-5.8	-5.2	-4.7	-4.2
-4.0	-9.8	-9.1	-8.5	-7.8	-7.2	-6.6	-6.1	-5.5	-5.0	-4.5
-3.8	-10.2	-9.5	-8.9	-8.2	-7.6	-7.0	-6.4	-5.9	-5.3	-4.8
-3.6	-10.7	-10.0	-9.3	-8.6	-8.0	-7.4	-6.8	-6.2	-5.7	-5.1
-3.4	-11.1	-10.4	-9.7	-9.0	-8.3	-7.7	-7.1	-6.5	-6.0	-6.0
-3.2	-11.6	-10.8	-10.1	-9.4	-8.7	-8.1	-7.5	-6.9	-6.3	-5.8
-3.0	-12.1	-11.3	-10.6	-9.8	-9.2	-8.5	-7.9	-7.2	-6.7	-6.1
-2.8	-12.6	-11.8	-11.0	-10.3	-9.6	-8.9	-8.3	-7.6	-7.0	-6.4
-2.6	-13.2	-12.3	-11.5	-10.7	-10.0	-9.3	-8.6	-8.0	-7.4	-6.8
-2.4	-13.7	-12.8	-12.0	-11.2	-10.5	-9.7	-9.0	-8.4	-7.7	-7.1
-2.2	-14.3	-13.4	-12.5	-11.7	-10.9	-10.2	-9.4	-8.8	-8.1	-7.5
-2.0	-14.9	-14.0	-13.1	-12.2	-11.4	-10.6	-9.9	-9.2	-8.5	-7.9
-1.8	-15.6	-14.6	-13.6	-12.7	-11.9	-11.1	-10.3	-9.6	-8.9	-8.3
-1.6	-16.3	-15.2	-14.2	-13.3	-12.4	-11.6	-10.8	-10.1	-9.3	-8.7
-1.4	-17.0	-15.9	-14.8	-13.9	-13.0	-12.1	-11.3	-10.5	-9.7	-9.1
-1.2	-17.7	-16.6	-15.5	-14.5	-13.5	-12.6	-11.8	-11.0	-10.2	-9.5
-1.0	-18.5	-17.3	-16.1	-15.1	-14.1	-13.1	-12.3	-11.5	-10.6	-9.9
-0.8	-19.3	-18.1	-16.8	-15.7	-14.6	-13.7	-12.8	-12.0	-11.1	-10.3
-0.6	-20.2	-18.9	-17.6	-16.4	-15.3	-14.3	-13.3	-12.4	-11.6	-10.8
-0.4	-21.2	-19.7	-18.4	-17.1	-15.9	-14.9	-13.9	-13.0	-12.1	-11.3
-0.2	-22.3	-20.6	-19.1	-17.8	-16.6	-15.5	-14.5	-13.5	-12.6	-11.8
0.0	-23.4	-21.6	-20.0	-18.6	-17.4	-16.2	-15.1	-14.1	-13.2	-12.3
0.2	-24.7	-22.7	-21.0	-19.5	-18.1	-16.9	-15.8	-14.7	-13.7	-12.8
0.4	-26.1	-23.9	-22.0	-20.4	-19.0	-17.7	-16.5	-15.3	-14.3	-13.3
0.6	-27.7	-25.2	-23.2	-21.4	-19.9	-18.5	-17.2	-16.0	-14.9	-13.9
0.8	-29.6	-26.7	-24.4	-22.5	-20.8	-19.3	-18.0	-16.7	-15.6	-14.5

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
-5.0	81	85	88	92	96	100				
-4.8	77	81	85	89	92	96	100			
-4.6	74	78	81	85	89	93	96	100		
-4.4	71	74	78	81	85	89	93	96	100	
-4.2	67	71	74	78	82	85	89	93	96	100
-4.0	64	68	71	75	78	82	85	89	93	96
-3.8	61	64	68	71	75	78	82	86	89	93
-3.6	58	61	65	68	72	75	79	82	86	89
-3.4	55	58	62	65	69	72	75	79	82	86
-3.2	52	56	59	62	65	69	72	76	79	82
-3.0	49	53	56	59	62	66	69	72	76	79
-2.8	47	50	53	56	60	63	66	69	73	76
-2.6	44	47	50	54	57	60	63	66	70	73
-2.4	41	45	48	51	54	57	60	63	67	70
-2.2	39	42	45	48	51	54	58	61	64	67
-2.0	36	39	42	45	49	52	55	58	61	64
-1.8	34	37	40	43	46	49	52	55	58	61
-1.6	32	35	38	40	43	47	50	52	56	59
-1.4	29	32	35	38	41	44	47	50	53	56
-1.2	27	30	33	36	39	42	45	47	50	53
-1.0	25	28	31	33	36	39	42	45	48	51
-0.8	23	26	28	31	34	37	40	43	45	48
-0.6	21	24	26	29	32	35	37	40	43	46
-0.4	19	22	24	27	30	33	35	38	41	44
-0.2	17	20	22	25	28	30	33	36	39	41
0.0	15	18	20	23	26	28	31	34	36	39
0.2	13	16	19	21	24	26	29	32	34	37
0.4	12	14	17	19	22	24	27	30	32	35
0.6	10	12	15	17	20	22	25	28	30	33
0.8	8	11	13	16	18	21	23	26	28	31

Wet Bulb -6.0 to -4.2
Dry Bulb +1.0 to +4.6

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
1.0	-31.8	-28.4	-25.8	-23.7	-21.8	-20.2	-18.7	-17.4	-16.3	-15.1
1.2	-34.5	-30.4	-27.4	-25.0	-22.9	-21.2	-19.6	-18.2	-17.0	-15.8
1.4	-38.1	-32.8	-29.2	-26.4	-24.2	-22.3	-20.5	-19.1	-17.7	-16.5
1.6	-43.5	-35.8	-31.3	-28.1	-25.5	-23.4	-21.5	-19.9	-18.5	-17.2
1.8		-40.0	-33.9	-30.0	-27.0	-24.6	-22.6	-20.9	-19.3	-18.0
2.0		-46.9	-37.3	-32.3	-28.8	-26.0	-23.8	-21.9	-20.2	-18.8
2.2			-42.2	-35.1	-30.8	-27.5	-25.1	-23.1	-21.2	-19.7
2.4				-39.0	-33.3	-29.4	-26.6	-24.3	-22.3	-20.6
2.6				-44.3	-36.1	-31.5	-28.2	-25.7	-23.4	-21.6
2.8					-40.5	-34.2	-30.2	-27.2	-24.7	-22.7
3.0					-48.0	-37.7	-32.5	-29.0	-26.1	-23.9
3.2						-42.9	-35.5	-30.8	-27.7	-25.1
3.4							-39.5	-33.3	-29.6	-26.6
3.6							-46.0	-36.5	-31.8	-28.2
3.8								-41.0	-34.5	-30.2
4.0								-49.2	-38.1	-32.5
4.2									-43.5	-35.5
4.4										-39.5
4.6										-46.0

Wet Bulb -4.0 to -2.2
Dry Bulb -4.0 to -3.2

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
-4.0	-4.0									
-3.8	-4.3	-3.8								
-3.6	-4.6	-4.1	-3.6							
-3.4	-4.9	-4.4	-3.9	-3.4						
-3.2	-5.2	-4.7	-4.2	-3.7	-3.2					

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-6.0	-5.8	-5.6	-5.4	-5.2	-5.0	-4.8	-4.6	-4.4	-4.2
1.0	7	9	11	14	16	19	21	24	26	29
1.2	5	7	10	12	15	17	20	22	24	27
1.4	3	6	8	11	13	15	18	20	22	25
1.6	2	4	7	9	11	14	16	18	21	23
1.8		3	5	7	10	12	14	17	19	21
2.0		1	4	6	8	10	13	15	17	20
2.2			2	4	7	9	11	13	16	18
2.4			1	3	5	7	10	12	14	16
2.6				2	4	6	8	10	13	15
2.8					2	5	7	9	11	13
3.0					1	3	5	7	10	12
3.2						2	4	6	8	10
3.4						1	3	5	7	9
3.6							1	3	5	8
3.8								2	4	6
4.0									1	3
4.2										2
4.4										2
4.6										1

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
-4.0	100									
-3.8	96	100								
-3.6	93	96	100							
-3.4	89	93	96	100						
-3.2	86	90	93	96	100					

Wet Bulb	-4.0 to	-2.2
Dry Bulb	-3.0 to	+2.8

Dew Point °C

Relative Humidity (%) _____ (700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
-3.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0				
-2.8	-5.9	-5.3	-4.8	-4.3	-3.8	-3.3	-2.8			
-2.6	-6.2	-5.6	-5.1	-4.6	-4.0	-3.6	-3.1	-2.6		
-2.4	-6.5	-6.0	-5.4	-4.9	-4.3	-3.8	-3.4	-2.9	-2.4	
-2.2	-6.9	-6.3	-5.7	-5.2	-4.6	-4.1	-3.6	-3.1	-2.7	-2.2
-2.0	-7.2	-6.6	-6.1	-5.5	-5.0	-4.4	-3.9	-3.4	-2.9	-2.5
-1.8	-7.6	-7.0	-6.4	-5.8	-5.3	-4.7	-4.2	-3.7	-3.2	-2.7
-1.6	-8.0	-7.4	-6.7	-6.2	-5.6	-5.0	-4.5	-4.0	-3.5	-3.0
-1.4	-8.4	-7.7	-7.1	-6.5	-5.9	-5.4	-4.8	-4.3	-3.8	-3.3
-1.2	-8.8	-8.1	-7.5	-6.8	-6.3	-5.7	-5.1	-4.6	-4.1	-3.6
-1.0	-9.2	-8.5	-7.8	-7.2	-6.6	-6.0	-5.5	-4.9	-4.4	-3.8
-0.8	-9.6	-8.9	-8.2	-7.6	-7.0	-6.4	-5.8	-5.2	-4.7	-4.1
-0.6	-10.1	-9.3	-8.6	-8.0	-7.3	-6.7	-6.1	-5.5	-5.0	-4.4
-0.4	-10.5	-9.7	-9.0	-8.3	-7.7	-7.1	-6.5	-5.9	-5.3	-4.7
-0.2	-11.0	-10.2	-9.4	-8.7	-8.1	-7.4	-6.8	-6.2	-5.6	-5.0
0.0	-11.5	-10.6	-9.9	-9.2	-8.5	-7.8	-7.1	-6.5	-6.0	-5.4
0.2	-12.0	-11.1	-10.3	-9.6	-8.9	-8.2	-7.5	-6.9	-6.3	-5.7
0.4	-12.5	-11.6	-10.8	-10.0	-9.3	-8.6	-7.9	-7.2	-6.6	-6.0
0.6	-13.0	-12.1	-11.3	-10.5	-9.7	-9.0	-8.3	-7.6	-7.0	-6.4
0.8	-13.5	-12.6	-11.8	-10.9	-10.1	-9.4	-8.7	-8.0	-7.4	-6.7
1.0	-14.1	-13.2	-12.3	-11.4	-10.6	-9.8	-9.1	-8.4	-7.7	-7.1
1.2	-14.7	-13.7	-12.8	-11.9	-11.1	-10.3	-9.5	-8.8	-8.1	-7.4
1.4	-15.3	-14.3	-13.3	-12.4	-11.6	-10.7	-9.9	-9.2	-8.5	-7.8
1.6	-16.0	-14.9	-13.9	-13.0	-12.1	-11.2	-10.4	-9.6	-8.9	-8.2
1.8	-16.7	-15.5	-14.5	-13.5	-12.6	-11.7	-10.8	-10.1	-9.3	-8.6
2.0	-17.4	-16.2	-15.1	-14.1	-13.1	-12.2	-11.3	-10.5	-9.7	-9.0
2.2	-18.2	-16.9	-15.8	-14.7	-13.7	-12.7	-11.8	-11.0	-10.1	-9.4
2.4	-19.1	-17.7	-16.5	-15.3	-14.3	-13.2	-12.3	-11.5	-10.6	-9.8
2.6	-19.9	-18.5	-17.1	-16.0	-14.9	-13.8	-12.8	-12.0	-11.1	-10.3
2.8	-20.9	-19.3	-17.9	-16.6	-15.5	-14.4	-13.4	-12.5	-11.6	-10.7

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
-3.0	83	86	89	93	97	100				
-2.8	79	83	86	90	93	97	100			
-2.6	76	80	83	86	90	93	97	100		
-2.4	73	77	80	83	87	90	93	97	100	
-2.2	70	73	77	80	83	87	90	93	97	100
-2.0	67	71	74	77	80	83	87	90	93	97
-1.8	64	68	71	74	77	80	83	87	90	93
-1.6	62	65	68	71	74	77	80	84	87	90
-1.4	59	62	65	68	71	74	77	81	84	87
-1.2	56	59	62	65	68	71	75	78	81	84
-1.0	54	57	60	63	66	69	72	75	78	81
-0.8	51	54	57	60	63	66	69	72	75	78
-0.6	49	52	55	57	60	63	66	69	72	75
-0.4	46	49	52	55	58	61	64	67	69	72
-0.2	44	47	50	52	55	58	61	64	67	70
0.0	42	45	47	50	53	56	59	61	64	67
0.2	40	42	45	48	51	53	56	59	62	65
0.4	37	40	43	45	48	51	54	56	59	62
0.6	35	38	41	43	46	49	51	54	57	60
0.8	33	36	38	41	44	46	49	52	54	57
1.0	31	34	36	39	42	44	47	49	52	55
1.2	29	32	34	37	39	42	45	47	50	53
1.4	28	30	32	35	37	40	43	45	48	50
1.6	26	28	30	33	35	38	41	43	46	48
1.8	24	26	29	31	34	36	39	41	44	46
2.0	22	25	27	29	32	34	37	39	42	44
2.2	20	23	25	27	30	32	35	37	40	42
2.4	19	21	23	26	28	30	33	35	38	40
2.6	17	19	22	24	26	29	31	33	36	38
2.8	16	18	20	22	25	27	29	31	34	36

Wet Bulb -4.0 to -2.2
 Dry Bulb +3.0 to +8.0

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
3.0	-21.9	-20.2	-18.7	-17.4	-16.1	-15.0	-14.0	-13.0	-12.1	-11.2
3.2	-23.1	-21.2	-19.6	-18.1	-16.8	-15.7	-14.6	-13.6	-12.6	-11.7
3.4	-24.3	-22.3	-20.5	-19.0	-17.6	-16.3	-15.2	-14.2	-13.1	-12.2
3.6	-25.7	-23.4	-21.5	-19.9	-18.4	-17.1	-15.9	-14.8	-13.7	-12.7
3.8	-27.2	-24.7	-22.6	-20.8	-19.2	-17.8	-16.6	-15.4	-14.3	-13.3
4.0	-29.0	-26.1	-23.8	-21.8	-20.1	-18.6	-17.3	-16.1	-14.9	-13.9
4.2	-31.1	-27.7	-25.1	-22.9	-21.1	-19.5	-18.1	-16.8	-15.5	-14.5
4.4	-33.6	-29.6	-26.6	-24.2	-22.1	-20.4	-18.9	-17.5	-16.2	-15.1
4.6	-36.9	-31.8	-28.2	-25.5	-23.3	-21.4	-19.8	-18.3	-16.9	-15.7
4.8	-41.6	-34.5	-30.2	-27.0	-24.6	-22.5	-20.7	-19.1	-17.7	-16.4
5.0		-38.1	-32.5	-28.8	-26.0	-23.7	-21.7	-19.9	-18.5	-17.1
5.2		-43.5	-35.5	-30.8	-27.5	-25.0	-22.8	-20.9	-19.3	-17.9
5.4			-39.5	-33.3	-29.4	-26.4	-24.0	-21.9	-20.2	-18.7
5.6			-46.0	-36.5	-31.5	-28.1	-25.4	-23.1	-21.2	-19.6
5.8				-41.0	-34.2	-30.0	-26.9	-24.3	-22.3	-20.4
6.0				-49.2	-37.7	-32.3	-28.6	-25.7	-23.4	-21.4
6.2					-42.9	-35.1	-30.6	-27.2	-24.7	-22.5
6.4						-39.0	-33.0	-29.0	-26.1	-23.7
6.6						-45.1	-36.1	-31.1	-27.7	-25.0
6.8							-40.5	-33.6	-29.6	-26.4
7.0							-48.0	-36.9	-31.8	-28.1
7.2								-41.6	-34.5	-30.0
7.4									-38.1	-32.3
7.6									-43.5	-35.1
7.8										-39.0
8.0										-45.1

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-4.0	-3.8	-3.6	-3.4	-3.2	-3.0	-2.8	-2.6	-2.4	-2.2
3.0	14	16	18	21	23	25	27	30	32	34
3.2	12	15	17	19	21	24	26	28	30	33
3.4	11	13	15	18	20	22	24	26	29	31
3.6	10	12	14	16	18	20	23	25	27	29
3.8	8	10	12	15	17	19	21	23	25	27
4.0	7	9	11	13	15	17	19	22	24	26
4.2	6	8	10	12	14	16	18	20	22	24
4.4	4	6	8	10	12	14	17	19	21	23
4.6	3	5	7	9	11	13	15	17	19	21
4.8	2	4	6	8	10	12	14	16	18	20
5.0	1	3	5	7	8	10	12	14	16	18
5.2		1	3	5	7	9	11	13	15	17
5.4			2	4	6	8	10	12	14	16
5.6			1	3	5	7	9	11	12	14
5.8				2	4	6	7	9	11	13
6.0				1	3	4	6	8	10	12
6.2					1	3	5	7	9	11
6.4						2	4	6	8	9
6.6						1	3	5	6	8
6.8							2	4	5	7
7.0								1	3	4
7.2									2	3
7.4									1	2
7.6										1
7.8										
8.0										

Wet Bulb -2.0 to -0.2
 Dry Bulb -2.0 to +3.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
-2.0	-2.0									
-1.8	-2.2	-1.8								
-1.6	-2.5	-2.1	-1.6							
-1.4	-2.8	-2.3	-1.9	-1.4						
-1.2	-3.0	-2.6	-2.1	-1.7	-1.2					
-1.0	-3.3	-2.9	-2.4	-1.9	-1.4	-1.0				
-0.8	-3.6	-3.1	-2.6	-2.2	-1.7	-1.2	-0.8			
-0.6	-3.9	-3.4	-2.9	-2.4	-1.9	-1.5	-1.0	-0.6		
-0.4	-4.2	-3.7	-3.2	-2.7	-2.2	-1.7	-1.3	-0.8	-0.4	
-0.2	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0	-1.5	-1.1	-0.6	-0.2
0.0	-4.8	-4.3	-3.8	-3.2	-2.7	-2.2	-1.8	-1.3	-0.9	-0.4
0.2	-5.1	-4.6	-4.0	-3.5	-3.0	-2.5	-2.0	-1.6	-1.1	-0.7
0.4	-5.4	-4.9	-4.3	-3.8	-3.3	-2.8	-2.3	-1.8	-1.4	-0.9
0.6	-5.8	-5.2	-4.6	-4.1	-3.6	-3.0	-2.6	-2.1	-1.6	-1.1
0.8	-6.1	-5.5	-5.0	-4.4	-3.8	-3.3	-2.8	-2.3	-1.9	-1.4
1.0	-6.4	-5.8	-5.3	-4.7	-4.1	-3.6	-3.1	-2.6	-2.1	-1.6
1.2	-6.8	-6.2	-5.6	-5.0	-4.4	-3.9	-3.4	-2.9	-2.4	-1.9
1.4	-7.1	-6.5	-5.9	-5.3	-4.7	-4.2	-3.7	-3.1	-2.6	-2.1
1.6	-7.5	-6.8	-6.3	-5.7	-5.0	-4.5	-4.0	-3.4	-2.9	-2.4
1.8	-7.9	-7.2	-6.6	-6.0	-5.4	-4.8	-4.3	-3.7	-3.2	-2.7
2.0	-8.3	-7.6	-7.0	-6.3	-5.7	-5.1	-4.6	-4.0	-3.5	-2.9
2.2	-8.7	-8.0	-7.3	-6.7	-6.0	-5.4	-4.9	-4.3	-3.8	-3.2
2.4	-9.1	-8.3	-7.7	-7.0	-6.4	-5.8	-5.2	-4.6	-4.0	-3.5
2.6	-9.5	-8.7	-8.1	-7.4	-6.7	-6.1	-5.5	-4.9	-4.3	-3.8
2.8	-9.9	-9.2	-8.4	-7.7	-7.1	-6.4	-5.8	-5.2	-4.6	-4.1
3.0	-10.4	-9.6	-8.8	-8.1	-7.4	-6.8	-6.2	-5.5	-5.0	-4.4
3.2	-10.8	-10.0	-9.2	-8.5	-7.8	-7.1	-6.5	-5.9	-5.3	-4.7
3.4	-11.3	-10.5	-9.7	-8.9	-8.2	-7.5	-6.8	-6.2	-5.6	-5.0
3.6	-11.8	-10.9	-10.1	-9.3	-8.6	-7.9	-7.2	-6.5	-5.9	-5.3
3.8	-12.3	-11.4	-10.6	-9.7	-9.0	-8.3	-7.6	-6.9	-6.3	-5.6

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
-2.0	100									
-1.8	97	100								
-1.6	93	97	100							
-1.4	90	93	97	100						
-1.2	87	90	93	97	100					
-1.0	84	87	90	94	97	100				
-0.8	81	84	87	90	94	97	100			
-0.6	78	81	84	87	91	94	97	100		
-0.4	76	78	81	84	88	91	94	97	100	
-0.2	73	76	79	82	85	88	91	94	97	100
0.0	70	73	76	79	82	85	88	91	94	97
0.2	67	70	73	76	79	82	85	88	91	94
0.4	65	68	70	73	76	79	82	85	88	91
0.6	62	65	68	71	74	76	79	82	85	88
0.8	60	63	65	68	71	74	77	80	82	85
1.0	58	60	63	66	69	71	74	77	80	83
1.2	55	58	60	63	66	69	71	74	77	80
1.4	53	56	58	61	64	66	69	72	74	77
1.6	51	53	56	59	61	64	67	69	72	75
1.8	49	51	54	56	59	62	64	67	69	72
2.0	45	49	51	54	57	59	62	64	67	70
2.2	44	47	49	52	54	57	60	62	65	67
2.4	42	45	47	50	52	55	57	60	62	65
2.6	40	43	45	48	50	53	55	58	60	63
2.8	39	41	43	46	48	51	53	56	58	61
3.0	37	39	41	44	46	49	51	53	56	58
3.2	35	37	40	42	44	47	49	51	54	56
3.4	33	35	38	40	42	45	47	49	52	54
3.6	31	34	36	38	40	43	45	47	50	52
3.8	30	32	34	36	39	41	43	46	48	50

Wet Bulb -2.0 to -0.2
 Dry Bulb +4.0 to +9.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
4.0	-12.8	-11.9	-11.0	-10.2	-9.4	-8.7	-8.0	-7.2	-6.6	-6.0
4.2	-13.4	-12.4	-11.5	-10.6	-9.8	-9.1	-8.3	-7.6	-7.0	-6.3
4.4	-14.0	-13.0	-12.0	-11.1	-10.3	-9.5	-8.7	-8.0	-7.3	-6.6
4.6	-14.6	-13.5	-12.5	-11.6	-10.7	-9.9	-9.2	-8.4	-7.7	-7.0
4.8	-15.2	-14.1	-13.1	-12.1	-11.2	-10.4	-9.6	-8.8	-8.1	-7.4
5.0	-15.9	-14.7	-13.6	-12.6	-11.7	-10.8	-10.0	-9.2	-8.5	-7.7
5.2	-16.6	-15.3	-14.2	-13.2	-12.2	-11.3	-10.5	-9.7	-8.9	-8.1
5.4	-17.3	-16.0	-14.8	-13.7	-12.7	-11.8	-10.9	-10.1	-9.3	-8.5
5.6	-18.1	-16.7	-15.5	-14.3	-13.3	-12.3	-11.4	-10.6	-9.7	-8.9
5.8	-18.9	-17.4	-16.1	-14.9	-13.9	-12.8	-11.9	-11.0	-10.1	-9.3
6.0	-19.8	-18.2	-16.8	-15.6	-14.5	-13.4	-12.4	-11.5	-10.6	-9.7
6.2	-20.7	-19.1	-17.6	-16.3	-15.1	-14.0	-13.0	-12.0	-11.1	-10.2
6.4	-21.7	-19.9	-18.4	-17.0	-15.7	-14.6	-13.5	-12.5	-11.6	-10.6
6.6	-22.8	-20.9	-19.2	-17.7	-16.4	-15.2	-14.1	-13.1	-12.1	-11.1
6.8	-24.0	-21.9	-20.1	-18.5	-17.1	-15.9	-14.7	-13.6	-12.6	-11.6
7.0	-25.4	-23.1	-21.1	-19.4	-17.9	-16.6	-15.3	-14.2	-13.1	-12.1
7.2	-26.9	-24.3	-22.1	-20.3	-18.7	-17.3	-16.0	-14.8	-13.7	-12.6
7.4	-28.6	-25.7	-23.3	-21.3	-19.6	-18.1	-16.7	-15.5	-14.3	-13.2
7.6	-30.6	-27.2	-24.6	-22.4	-20.5	-18.9	-17.4	-16.1	-14.9	-13.8
7.8	-33.0	-29.0	-26.0	-23.5	-21.5	-19.8	-18.2	-16.8	-15.5	-14.4
8.0	-36.1	-31.1	-27.5	-24.8	-22.6	-20.7	-19.1	-17.6	-16.2	-15.0
8.2	-40.5	-33.6	-29.4	-26.3	-23.8	-21.7	-19.9	-18.4	-16.9	-15.7
8.4	-48.0	-36.9	-31.5	-27.9	-25.1	-22.8	-20.9	-19.2	-17.7	-16.3
8.6		-41.6	-34.2	-29.8	-26.6	-24.0	-21.9	-20.1	-18.5	-17.1
8.8			-37.7	-32.0	-28.2	-25.4	-23.1	-21.1	-19.3	-17.8
9.0			-42.9	-34.8	-30.2	-26.9	-24.3	-22.1	-20.2	-18.6
9.2				-38.5	-32.5	-28.6	-25.7	-23.3	-21.2	-19.5
9.4				-44.3	-35.5	-30.6	-27.2	-24.6	-22.3	-20.4
9.6					-39.5	-33.0	-29.0	-26.0	-23.4	-21.4
9.8					-46.0	-36.1	-31.1	-27.5	-24.7	-22.5

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
4.0	28	30	32	35	37	39	41	44	46	48
4.2	26	29	31	33	35	37	40	42	44	46
4.4	25	27	29	31	33	36	38	40	42	44
4.6	23	25	28	30	32	34	36	38	40	43
4.8	22	24	26	28	30	32	34	37	39	41
5.0	20	22	25	27	29	31	33	35	37	39
5.2	19	21	23	25	27	29	31	33	35	38
5.4	18	20	22	24	26	28	30	32	34	36
5.6	16	18	20	22	24	26	28	30	32	34
5.8	15	17	19	21	23	25	27	29	31	33
6.0	14	16	18	19	21	23	25	27	29	31
6.2	12	14	16	18	20	22	24	26	28	30
6.4	11	13	15	17	19	21	22	24	26	28
6.6	10	12	14	16	17	19	21	23	25	27
6.8	9	11	13	14	16	18	20	22	24	26
7.0	8	10	11	13	15	17	19	20	22	24
7.2	7	8	10	12	14	16	17	19	21	23
7.4	6	7	9	11	13	14	16	18	20	22
7.6	5	6	8	10	12	13	15	17	18	20
7.8	4	5	7	9	10	12	14	16	17	19
8.0	3	4	6	8	9	11	13	14	16	18
8.2	2	3	5	7	8	10	12	13	15	17
8.4	1	2	4	6	7	9	11	12	14	16
8.6		1	3	5	6	8	9	11	13	14
8.8		1	2	4	5	7	8	10	12	13
9.0			1	3	4	6	7	9	11	12
9.2				2	3	5	7	8	10	11
9.4				1	3	4	6	7	9	10
9.6					2	3	5	6	8	9
9.8					1	2	4	5	7	8

Wet Bulb -2.0 to -0.2
Dry Bulb +10.0 to +11.6

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
10.0						-40.5	-33.6	-29.4	-26.1	-23.7
10.2						-48.0	-36.9	-31.5	-27.7	-25.0
10.4							-41.6	-34.2	-29.6	-26.4
10.6								-37.7	-31.8	-28.1
10.8								-42.9	-34.5	-30.0
11.0									-38.1	-32.3
11.2									-43.5	-35.1
11.4										-39.0
11.6										-45.1

Wet Bulb 0.0 to +1.8
Dry Bulb 0.0 to +2.8

Dry Bulb °C	Wet Bulb °C									
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
0.0	0.0									
0.2	-0.2	0.2								
0.4	-0.5	0.0	0.4							
0.6	-0.8	-0.3	0.2	0.6						
0.8	-1.0	-0.5	-0.1	0.4	0.8					
1.0	-1.3	-0.8	-0.3	0.1	0.6	1.0				
1.2	-1.6	-1.1	-0.6	-0.1	0.3	0.8	1.2			
1.4	-1.8	-1.3	-0.9	-0.4	0.1	0.5	1.0	1.4		
1.6	-2.1	-1.6	-1.1	-0.6	-0.2	0.3	0.7	1.2	1.6	
1.8	-2.4	-1.9	-1.4	-0.9	-0.4	0.0	0.5	0.9	1.4	1.8
2.0	-2.7	-2.2	-1.7	-1.2	-0.7	-0.2	0.3	0.7	1.1	1.6
2.2	-3.0	-2.5	-1.9	-1.4	-0.9	-0.5	0.0	0.5	0.9	1.3
2.4	-3.3	-2.8	-2.2	-1.7	-1.2	-0.7	-0.2	0.2	0.7	1.1
2.6	-3.6	-3.1	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.4	0.9
2.8	-3.9	-3.4	-2.8	-2.3	-1.8	-1.3	-0.8	-0.3	0.2	0.6

Relative Humidity (%) (700 mb.)

Dry Bulb °C	Wet Bulb °C									
	-2.0	-1.8	-1.6	-1.4	-1.2	-1.0	-0.8	-0.6	-0.4	-0.2
10.0						1	3	4	6	7
10.2						1	2	4	5	7
10.4							1	3	4	6
10.6								2	3	5
10.8								1	3	4
11.0									2	3
11.2									1	2
11.4										2
11.6										1

Dry Bulb °C	Wet Bulb °C									
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
0.0	100									
0.2	97	100								
0.4	94	97	100							
0.6	91	94	97	100						
0.8	88	91	94	97	100					
1.0	85	88	91	94	97	100				
1.2	82	85	88	91	94	97	100			
1.4	79	82	85	88	91	94	97	100		
1.6	76	79	82	85	88	91	94	97	100	
1.8	74	77	79	82	85	88	91	94	97	100
2.0	71	74	77	79	82	85	88	91	94	97
2.2	68	71	74	77	80	82	85	88	91	94
2.4	66	69	72	74	77	80	83	86	88	91
2.6	64	66	69	72	74	77	80	83	86	88
2.8	61	64	66	69	72	75	77	80	83	86

Wet Bulb 0.0 to +1.8
Dry Bulb 3.0 to +8.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
3.0	-4.3	-3.7	-3.1	-2.6	-2.0	-1.5	-1.0	-0.5	-0.1	0.4
3.2	-4.6	-4.0	-3.4	-2.9	-2.3	-1.8	-1.3	-0.8	-0.3	0.2
3.4	-4.9	-4.3	-3.8	-3.2	-2.6	-2.1	-1.6	-1.1	-0.6	-0.1
3.6	-5.3	-4.7	-4.1	-3.5	-2.9	-2.4	-1.8	-1.3	-0.8	-0.3
3.8	-5.7	-5.0	-4.4	-3.8	-3.2	-2.7	-2.1	-1.6	-1.1	-0.6
4.0	-5.0	-5.4	-4.7	-4.1	-3.5	-3.0	-2.4	-1.9	-1.4	-0.9
4.2	-6.4	-5.7	-5.1	-4.5	-3.8	-3.3	-2.7	-2.2	-1.6	-1.1
4.4	-6.8	-6.1	-5.4	-4.8	-4.2	-3.6	-3.0	-2.5	-1.9	-1.4
4.6	-7.2	-6.5	-5.8	-5.1	-4.5	-3.9	-3.3	-2.8	-2.2	-1.7
4.8	-7.6	-6.8	-6.2	-5.5	-4.8	-4.2	-3.6	-3.0	-2.5	-1.9
5.0	-8.0	-7.2	-6.5	-5.9	-5.2	-4.6	-4.0	-3.4	-2.8	-2.2
5.2	-8.4	-7.7	-6.9	-6.2	-5.5	-4.9	-4.3	-3.7	-3.1	-2.5
5.4	-8.9	-8.1	-7.3	-6.6	-5.9	-5.2	-4.6	-4.0	-3.4	-2.8
5.6	-9.3	-8.5	-7.7	-7.0	-6.3	-5.6	-5.0	-4.3	-3.7	-3.1
5.8	-9.8	-8.9	-8.1	-7.4	-6.7	-6.0	-5.3	-4.6	-4.0	-3.4
6.0	-10.3	-9.4	-8.6	-7.8	-7.1	-6.3	-5.7	-5.0	-4.3	-3.8
6.2	-10.8	-9.9	-9.0	-8.2	-7.5	-6.7	-6.0	-5.3	-4.7	-4.1
6.4	-11.3	-10.4	-9.5	-8.7	-7.9	-7.1	-6.4	-5.7	-5.0	-4.4
6.6	-11.9	-10.9	-10.0	-9.1	-8.3	-7.5	-6.8	-6.1	-5.4	-4.7
6.8	-12.4	-11.4	-10.5	-9.6	-8.7	-7.9	-7.2	-6.4	-5.8	-5.1
7.0	-13.0	-12.0	-11.0	-10.1	-9.2	-8.3	-7.6	-6.8	-6.1	-5.4
7.2	-13.6	-12.5	-11.5	-10.6	-9.7	-8.8	-8.0	-7.2	-6.5	-5.8
7.4	-14.3	-13.1	-12.1	-11.1	-10.1	-9.2	-8.4	-7.6	-6.9	-6.2
7.6	-14.9	-13.7	-12.6	-11.6	-10.6	-9.7	-8.9	-8.1	-7.3	-6.5
7.8	-15.7	-14.4	-13.2	-12.2	-11.2	-10.2	-9.3	-8.5	-7.7	-6.9
8.0	-16.4	-15.1	-13.9	-12.7	-11.7	-10.7	-9.8	-8.9	-8.1	-7.3
8.2	-17.2	-15.8	-14.5	-13.3	-12.3	-11.3	-10.3	-9.4	-8.5	-7.7
8.4	-18.1	-16.6	-15.2	-14.0	-12.8	-11.8	-10.8	-9.9	-9.0	-8.1
8.6	-19.0	-17.4	-15.9	-14.6	-13.5	-12.4	-11.3	-10.4	-9.4	-8.6
8.8	-19.9	-18.2	-16.7	-15.3	-14.1	-13.0	-11.9	-10.9	-9.9	-9.0

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
3.0	59	61	64	67	69	72	75	77	80	83
3.2	57	59	62	64	67	70	72	75	78	80
3.4	54	57	59	62	65	67	70	72	75	78
3.6	52	55	57	60	62	65	68	70	73	75
3.8	50	52	55	57	60	63	65	68	70	73
4.0	48	50	53	55	58	60	63	65	68	71
4.2	46	48	51	53	56	58	61	63	66	68
4.4	44	46	49	51	54	56	59	61	64	66
4.6	42	44	47	49	52	54	56	59	61	64
4.8	40	43	45	47	50	52	54	57	59	62
5.0	38	41	43	45	48	50	52	55	57	60
5.2	37	39	41	43	46	48	50	53	55	57
5.4	35	37	39	42	44	46	48	51	53	55
5.6	33	35	38	40	42	44	47	49	51	53
5.8	32	34	36	38	40	43	45	47	49	51
6.0	30	32	34	36	39	41	43	45	47	50
6.2	28	30	33	35	37	39	41	43	46	48
6.4	27	29	31	33	35	37	39	42	44	46
6.6	25	27	29	32	34	36	38	40	42	44
6.8	24	26	28	30	32	34	36	38	40	42
7.0	22	24	26	28	30	33	35	37	39	41
7.2	21	23	25	27	29	31	33	35	37	39
7.4	20	22	24	26	27	30	31	34	35	38
7.6	18	20	22	24	26	28	30	32	34	36
7.8	17	19	21	23	25	27	29	30	32	34
8.0	16	18	20	21	23	25	27	29	31	33
8.2	15	16	18	20	22	24	26	28	30	31
8.4	13	15	17	19	21	23	24	26	28	30
8.6	12	14	16	18	19	21	23	25	27	29
8.8	11	13	15	16	18	20	22	24	25	27

Wet Bulb 0.0 to +1.8
 Dry Bulb +9.0 to +14.2

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
9.0	-21.0	-19.1	-17.5	-16.1	-14.8	-13.6	-12.4	-11.4	-10.4	-9.5
9.2	-22.1	-20.1	-18.4	-16.8	-15.5	-14.2	-13.0	-12.0	-10.9	-10.0
9.4	-23.4	-21.2	-19.3	-17.7	-16.2	-14.9	-13.6	-12.5	-11.5	-10.5
9.6	-24.8	-22.4	-20.3	-18.5	-17.0	-15.6	-14.3	-13.1	-12.0	-11.0
9.8	-26.4	-23.7	-21.4	-19.5	-17.8	-16.3	-14.9	-13.7	-12.6	-11.5
10.0	-28.2	-25.1	-22.6	-20.5	-18.7	-17.1	-15.7	-14.4	-13.2	-12.1
10.2	-30.4	-26.7	-23.9	-21.6	-19.7	-18.0	-16.5	-15.1	-13.8	-12.7
10.4	-33.0	-28.6	-25.4	-22.8	-20.7	-18.9	-17.3	-15.8	-14.5	-13.3
10.6	-36.5	-30.8	-27.0	-24.2	-21.8	-19.9	-18.1	-16.6	-15.2	-13.9
10.8	-41.6	-33.6	-29.0	-25.7	-23.1	-20.9	-19.1	-17.4	-15.9	-14.6
11.0		-37.3	-31.5	-27.5	-24.4	-22.0	-20.0	-18.2	-16.7	-15.3
11.2		-42.9	-34.5	-29.6	-26.0	-23.3	-21.1	-19.1	-17.5	-16.0
11.4			-38.5	-32.0	-27.7	-24.7	-22.3	-20.1	-18.4	-16.8
11.6			-45.1	-35.1	-29.8	-26.3	-23.5	-21.2	-19.3	-17.6
11.8				-39.5	-32.3	-28.1	-25.0	-22.4	-20.3	-18.5
12.0				-46.9	-35.5	-30.2	-26.6	-23.7	-21.4	-19.4
12.2					-40.0	-32.8	-28.4	-25.1	-22.6	-20.4
12.4					-49.2	-36.1	-30.6	-26.9	-23.9	-21.5
12.6						-41.0	-33.3	-28.8	-25.4	-22.7
12.8							-36.9	-31.1	-27.0	-24.0
13.0							-42.2	-33.9	-29.0	-25.5
13.2								-37.7	-31.3	-27.2
13.4								-43.5	-34.2	-29.2
13.6									-38.1	-31.5
13.8									-44.3	-34.5
14.0										-38.5
14.2										-46.0

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
9.0	10	12	14	15	17	19	21	22	24	26
9.2	9	11	12	14	16	18	19	21	23	25
9.4	8	10	11	13	15	16	18	20	22	23
9.6	7	9	10	12	14	15	17	19	20	22
9.8	6	8	9	11	12	14	16	18	19	21
10.0	5	7	8	10	11	13	15	16	18	20
10.2	4	6	7	9	10	12	14	15	17	19
10.4	3	5	6	8	9	11	13	14	16	17
10.6	2	4	5	7	8	10	12	13	15	16
10.8	1	3	4	6	7	9	11	12	14	15
11.0		2	3	5	6	8	10	11	13	14
11.2		1	2	4	6	7	9	10	12	13
11.4			2	3	5	6	8	9	11	12
11.6			1	2	4	5	7	8	10	11
11.8				1	3	4	6	7	9	10
12.0				1	2	4	5	6	8	9
12.2					1	3	4	6	7	9
12.4						2	3	5	6	8
12.6						1	3	4	5	7
12.8							2	3	5	6
13.0							1	2	4	5
13.2								2	3	4
13.4								1	2	4
13.6									1	3
13.8									1	2
14.0										1
14.2										1

Wet Bulb -2.0 to 3.8
 Dry Bulb 2.0 to 7.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8
2.0	2.0									
2.2	1.8	2.2								
2.4	1.5	2.0	2.4							
2.6	1.3	1.8	2.2	2.6						
2.8	1.1	1.5	2.0	2.4	2.8					
3.0	0.9	1.3	1.8	2.2	2.6	3.0				
3.2	0.6	1.1	1.5	2.0	2.4	2.8	3.2			
3.4	0.4	0.8	1.3	1.7	2.2	2.6	3.0	3.4		
3.6	0.1	0.6	1.1	1.5	2.0	2.4	2.8	3.2	3.6	
3.8	-0.1	0.4	0.8	1.3	1.7	2.1	2.6	3.0	3.4	3.8
4.0	-0.4	0.1	0.6	1.1	1.5	1.9	2.4	2.8	3.2	3.6
4.2	-0.6	-0.1	0.3	0.8	1.3	1.7	2.1	2.6	3.0	3.4
4.4	-0.9	-0.4	0.1	0.6	1.0	1.5	1.9	2.4	2.8	3.2
4.6	-1.1	-0.6	-0.2	0.3	0.8	1.3	1.7	2.1	2.6	3.0
4.8	-1.4	-0.9	-0.4	0.1	0.6	1.0	1.5	1.9	2.4	2.8
5.0	-1.7	-1.2	-0.7	-0.2	0.3	0.8	1.3	1.7	2.1	2.6
5.2	-2.0	-1.4	-0.9	-0.4	0.1	0.6	1.0	1.5	1.9	2.4
5.4	-2.2	-1.7	-1.2	-0.7	-0.2	0.3	0.8	1.3	1.7	2.1
5.6	-2.5	-2.0	-1.5	-0.9	-0.4	0.1	0.5	1.0	1.5	1.9
5.8	-2.9	-2.3	-1.7	-1.2	-0.7	-0.2	0.3	0.8	1.2	1.7
6.0	-3.2	-2.6	-2.0	-1.5	-0.9	-0.5	0.0	0.5	1.0	1.5
6.2	-3.5	-2.9	-2.3	-1.8	-1.2	-0.7	-0.2	0.3	0.8	1.3
6.4	-3.8	-3.2	-2.6	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0
6.6	-4.1	-3.5	-2.9	-2.3	-1.8	-1.2	-0.7	-0.2	0.3	0.8
6.8	-4.4	-3.8	-3.2	-2.6	-2.1	-1.5	-1.0	-0.5	0.0	0.5
7.0	-4.8	-4.1	-3.5	-2.9	-2.4	-1.8	-1.2	-0.7	-0.2	0.3
7.2	-5.1	-4.5	-3.8	-3.2	-2.6	-2.1	-1.5	-1.0	-0.5	0.0
7.4	-5.5	-4.8	-4.2	-3.5	-2.9	-2.4	-1.8	-1.2	-0.7	-0.2
7.6	-5.8	-5.1	-4.5	-3.8	-3.2	-2.6	-2.1	-1.5	-1.0	-0.5
7.8	-6.2	-5.5	-4.8	-4.2	-3.6	-2.9	-2.4	-1.8	-1.2	-0.7

Relative Humidity (%) (700 mb)

Dry Bulb °C	Wet Bulb °C									
	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8
2.0	100									
2.2	97	100								
2.4	94	97	100							
2.6	91	94	97	100						
2.8	89	91	94	97	100					
3.0	86	89	91	94	97	100				
3.2	83	86	89	91	94	97	100			
3.4	81	83	86	89	92	94	97	100		
3.6	78	81	83	86	89	92	94	97	100	
3.8	76	78	81	84	86	89	92	94	97	100
4.0	73	76	78	81	84	86	89	92	94	97
4.2	71	73	76	79	81	84	86	89	92	94
4.4	69	71	74	76	79	81	84	87	89	92
4.6	66	69	71	74	76	79	81	84	87	89
4.8	64	67	69	72	74	77	79	82	84	87
5.0	62	64	67	69	72	74	77	79	82	84
5.2	60	62	65	67	69	72	74	77	79	82
5.4	58	60	62	65	67	70	72	75	77	79
5.6	56	58	60	63	65	68	70	72	75	77
5.8	54	56	58	61	63	65	68	70	72	75
6.0	52	54	56	59	61	63	66	68	70	73
6.2	50	52	54	57	59	61	64	66	68	71
6.4	48	50	53	55	57	59	62	64	66	68
6.6	46	48	51	53	55	57	60	62	64	66
6.8	45	47	49	51	53	55	58	60	62	64
7.0	43	45	47	49	51	54	56	58	60	62
7.2	41	43	45	47	50	52	54	56	58	60
7.4	40	42	44	46	48	50	52	54	56	58
7.6	38	40	42	44	46	48	50	52	55	57
7.8	36	38	40	42	44	47	49	51	53	55

Wet Bulb 2.0 to 3.8
 Dry Bulb 8.0 to 13.8

Dew Point °C

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8
8.0	-6.6	-5.9	-5.2	-4.5	-3.9	-3.2	-2.6	-2.1	-1.5	-1.0
8.2	-7.0	-6.2	-5.5	-4.8	-4.2	-3.6	-3.0	-2.4	-1.8	-1.2
8.4	-7.4	-6.6	-5.9	-5.2	-4.5	-3.9	-3.3	-2.7	-2.1	-1.5
8.6	-7.8	-7.0	-6.3	-5.6	-4.9	-4.2	-3.6	-3.0	-2.4	-1.8
8.8	-8.2	-7.4	-6.6	-5.9	-5.2	-4.5	-3.9	-3.3	-2.7	-2.1
9.0	-8.6	-7.8	-7.0	-6.3	-5.6	-4.9	-4.2	-3.6	-3.0	-2.4
9.2	-9.1	-8.2	-7.4	-6.7	-5.9	-5.2	-4.6	-3.9	-3.3	-2.7
9.4	-9.5	-8.7	-7.8	-7.1	-6.3	-5.6	-4.9	-4.2	-3.6	-3.0
9.6	-10.1	-9.1	-8.3	-7.5	-6.7	-6.0	-5.2	-4.6	-3.9	-3.3
9.8	-10.6	-9.6	-8.7	-7.9	-7.1	-6.3	-5.6	-4.9	-4.2	-3.6
10.0	-11.1	-10.1	-9.2	-8.3	-7.5	-6.7	-6.0	-5.2	-4.6	-3.9
10.2	-11.6	-10.6	-9.6	-8.7	-7.9	-7.1	-6.3	-5.6	-4.9	-4.2
10.4	-12.2	-11.1	-10.1	-9.2	-8.3	-7.5	-6.7	-6.0	-5.2	-4.6
10.6	-12.7	-11.7	-10.6	-9.7	-8.8	-7.9	-7.1	-6.4	-5.6	-4.9
10.8	-13.3	-12.2	-11.2	-10.1	-9.2	-8.3	-7.5	-6.7	-6.0	-5.2
11.0	-14.0	-12.8	-11.7	-10.6	-9.7	-8.8	-8.0	-7.1	-6.4	-5.6
11.2	-14.6	-13.4	-12.3	-11.2	-10.2	-9.2	-8.4	-7.5	-6.7	-6.0
11.4	-15.3	-14.0	-12.8	-11.8	-10.7	-9.7	-8.8	-8.0	-7.1	-6.4
11.6	-16.1	-14.7	-13.5	-12.3	-11.2	-10.2	-9.3	-8.4	-7.5	-6.7
11.8	-16.8	-15.4	-14.1	-12.9	-11.8	-10.7	-9.7	-8.8	-8.0	-7.1
12.0	-17.7	-16.1	-14.8	-13.5	-12.3	-11.3	-10.2	-9.3	-8.4	-7.5
12.2	-18.5	-16.9	-15.5	-14.2	-12.9	-11.8	-10.7	-9.7	-8.8	-8.0
12.4	-19.5	-17.7	-16.2	-14.8	-13.5	-12.4	-11.3	-10.2	-9.3	-8.4
12.6	-20.5	-18.6	-17.0	-15.5	-14.2	-13.0	-11.8	-10.7	-9.7	-8.8
12.8	-21.6	-19.6	-17.8	-16.3	-14.9	-13.6	-12.4	-11.3	-10.2	-9.3
13.0	-22.8	-20.6	-18.7	-17.1	-15.6	-14.2	-13.0	-11.8	-10.7	-9.7
13.2	-24.2	-21.7	-19.7	-17.9	-16.3	-14.9	-13.6	-12.4	-11.3	-10.2
13.4	-25.7	-23.1	-20.7	-18.8	-17.1	-15.6	-14.2	-13.0	-11.9	-10.8
13.6	-27.5	-24.4	-21.8	-19.8	-18.0	-16.3	-14.9	-13.6	-12.4	-11.3
13.8	-29.6	-26.0	-23.2	-20.8	-18.9	-17.1	-15.7	-14.3	-13.0	-11.9

Dry Bulb °C	Wet Bulb °C									
	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8
8.0	35	37	39	41	43	45	47	49	51	53
8.2	33	35	37	39	41	43	45	47	49	51
8.4	32	34	36	38	40	42	44	46	48	50
8.6	31	32	34	36	38	40	42	44	46	48
8.8	29	31	33	35	37	39	40	42	44	46
9.0	28	30	31	33	35	37	39	41	43	45
9.2	26	28	30	32	34	36	37	39	41	43
9.4	25	27	29	31	32	34	36	38	40	42
9.6	24	26	27	29	31	33	35	36	38	40
9.8	23	24	26	28	30	31	33	35	37	39
10.0	21	23	25	27	28	30	32	34	36	37
10.2	20	22	24	25	27	29	31	32	34	36
10.4	19	21	22	24	26	28	29	31	33	35
10.6	18	20	21	23	25	26	28	30	31	33
10.8	17	19	20	22	23	25	27	29	30	32
11.0	16	17	19	21	22	24	26	27	29	31
11.2	15	16	18	20	21	23	24	26	28	29
11.4	14	15	17	18	20	22	23	25	27	28
11.6	13	14	16	17	19	21	22	24	25	27
11.8	12	13	15	16	18	20	21	23	24	26
12.0	11	12	14	15	17	18	20	22	23	25
12.2	10	11	13	14	16	17	19	21	22	24
12.4	9	11	12	13	15	16	18	20	21	23
12.6	8	10	11	13	14	15	17	19	20	22
12.8	7	9	10	12	13	15	16	18	19	21
13.0	7	8	9	11	12	14	15	17	18	20
13.2	6	7	9	10	11	13	14	16	17	19
13.4	5	6	8	9	10	12	13	15	16	18
13.6	4	5	7	8	10	11	12	14	15	17
13.8	3	5	6	7	9	10	11	13	14	16

Wet Bulb 2.0 to 3.8
Dry Bulb 14.0 to 18.0

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8
14.0	-32.0	-27.7	-24.6	-21.9	-19.9	-18.0	-16.4	-14.9	-13.6	-12.4
14.2	-35.1	-29.8	-26.1	-23.2	-20.9	-18.9	-17.2	-15.7	-14.3	-13.0
14.4	-39.5	-32.3	-27.9	-24.6	-22.0	-19.9	-18.1	-16.4	-14.9	-13.6
14.6	-46.9	-35.5	-30.0	-26.3	-23.3	-21.0	-19.0	-17.2	-15.7	-14.3
14.8		-40.0	-32.5	-28.1	-24.7	-22.1	-19.9	-18.1	-16.4	-14.9
15.0		-48.0	-35.8	-30.2	-26.3	-23.4	-21.0	-19.0	-17.2	-15.7
15.2			-40.5	-32.8	-28.1	-24.8	-22.1	-19.9	-18.1	-16.4
15.4			-49.2	-36.1	-30.2	-26.4	-23.4	-21.0	-19.0	-17.2
15.6				-41.0	-33.0	-28.2	-24.8	-22.1	-20.0	-18.1
15.8					-36.5	-30.4	-26.4	-23.5	-21.1	-19.1
16.0					-41.6	-33.0	-28.2	-25.0	-22.3	-20.0
16.2						-36.5	-30.4	-26.6	-23.5	-21.1
16.4						-41.6	-33.3	-28.4	-25.0	-22.3
16.6							-36.9	-30.6	-26.6	-23.5
16.8							-42.2	-33.3	-28.4	-25.0
17.0								-36.9	-30.6	-26.6
17.2								-42.2	-33.3	-28.4
17.4									-36.9	-30.6
17.6									-42.2	-33.3
17.8										-36.9
18.0										-42.9

Wet Bulb 4.0 to 5.8
Dry Bulb 4.0 to 4.8

Dry Bulb °C	Wet Bulb °C									
	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
4.0	4.0									
4.2	3.8	4.2								
4.4	3.6	4.0	4.4							
4.6	3.4	3.8	4.2	4.6						
4.8	3.2	3.6	4.0	4.4	4.8					

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8
14.0	3	4	5	7	8	9	11	12	13	15
14.2	2	3	5	6	7	9	10	11	13	14
14.4	1	3	4	5	6	8	9	10	12	13
14.6	1	2	3	4	6	7	8	10	11	12
14.8		1	2	4	5	6	7	9	10	11
15.0			2	3	4	5	7	8	9	11
15.2			1	2	4	5	6	7	9	10
15.4				2	3	4	5	7	8	9
15.6				1	2	3	5	6	7	8
15.8					2	3	4	5	6	8
16.0					1	2	3	4	6	7
16.2						1	3	4	5	6
16.4						1	2	3	4	6
16.6							1	3	4	5
16.8							1	2	3	4
17.0								1	2	4
17.2								1	2	3
17.4									1	2
17.6										1
17.8										1
18.0										1

Dry Bulb °C	Wet Bulb °C									
	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
4.0	100									
4.2	97	100								
4.4	95	97	100							
4.6	92	95	97	100						
4.8	89	92	95	97	100					

Wet Bulb 4.0 to 5.8
Dry Bulb 5.0 to 10.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
5.0	3.0	3.4	3.8	4.2	4.6	5.0				
5.2	2.8	3.2	3.6	4.0	4.4	4.8	5.2			
5.4	2.6	3.0	3.4	3.8	4.2	4.6	5.0	5.4		
5.6	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	
5.8	2.1	2.6	3.0	3.4	3.8	4.2	4.7	5.0	5.4	5.8
6.0	1.9	2.4	2.8	3.2	3.6	4.1	4.5	4.9	5.2	5.6
6.2	1.7	2.2	2.6	3.0	3.4	3.9	4.3	4.7	5.1	5.5
6.4	1.5	1.9	2.4	2.8	3.2	3.7	4.1	4.5	4.9	5.3
6.6	1.3	1.7	2.2	2.6	3.0	3.5	3.9	4.3	4.7	5.1
6.8	1.0	1.5	2.0	2.4	2.8	3.3	3.7	4.1	4.5	4.9
7.0	0.8	1.3	1.7	2.2	2.6	3.1	3.5	3.9	4.3	4.7
7.2	0.5	1.0	1.5	2.0	2.4	2.9	3.3	3.7	4.1	4.5
7.4	0.3	0.8	1.3	1.7	2.2	2.7	3.1	3.5	3.9	4.3
7.6	0.0	0.6	1.1	1.5	2.0	2.4	2.9	3.3	3.7	4.2
7.8	-0.2	0.3	0.8	1.3	1.8	2.2	2.7	3.1	3.5	4.0
8.0	-0.5	0.1	0.6	1.1	1.5	2.0	2.5	2.9	3.3	3.8
8.2	-0.7	-0.2	0.3	0.8	1.3	1.8	2.2	2.7	3.1	3.6
8.4	-1.0	-0.4	0.1	0.6	1.1	1.5	2.0	2.5	2.9	3.4
8.6	-1.2	-0.7	-0.2	0.3	0.8	1.3	1.8	2.3	2.7	3.2
8.8	-1.5	-1.0	-0.4	0.1	0.6	1.1	1.6	2.1	2.5	3.0
9.0	-1.8	-1.2	-0.7	-0.2	0.4	0.9	1.3	1.8	2.3	2.7
9.2	-2.1	-1.5	-0.9	-0.4	0.1	0.6	1.1	1.6	2.1	2.5
9.4	-2.4	-1.8	-1.2	-0.7	-0.2	0.4	0.9	1.4	1.9	2.3
9.6	-2.7	-2.1	-1.5	-0.9	-0.4	0.1	0.6	1.1	1.6	2.1
9.8	-3.0	-2.4	-1.8	-1.2	-0.7	-0.1	0.4	0.9	1.4	1.9
10.0	-3.3	-2.6	-2.1	-1.5	-0.9	-0.4	0.1	0.7	1.2	1.6
10.2	-3.6	-2.9	-2.4	-1.8	-1.2	-0.6	-0.1	0.4	0.9	1.4
10.4	-3.9	-3.2	-2.6	-2.0	-1.5	-0.9	-0.4	0.2	0.7	1.2
10.6	-4.2	-3.6	-2.9	-2.3	-1.7	-1.2	-0.6	-0.1	0.4	1.0
10.8	-4.6	-3.9	-3.2	-2.6	-2.0	-1.4	-0.9	-0.3	0.2	0.7

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
5.0	87	89	92	95	97	100				
5.2	84	87	90	92	95	97	100			
5.4	82	85	87	90	92	95	97	100		
5.6	80	82	85	87	90	92	95	97	100	
5.8	77	80	82	85	87	90	92	95	97	100
6.0	75	78	80	82	85	87	90	92	95	97
6.2	73	75	78	80	83	85	87	90	92	95
6.4	71	73	75	78	80	83	85	88	90	92
6.6	69	71	73	76	78	80	83	85	88	90
6.8	67	69	71	74	76	78	81	83	85	88
7.0	65	67	69	71	74	76	78	81	83	85
7.2	63	65	67	69	72	74	76	79	81	83
7.4	61	63	65	67	69	72	74	76	79	81
7.6	59	61	63	65	67	70	72	74	76	79
7.8	57	59	61	63	66	68	70	72	74	77
8.0	55	57	59	61	64	66	68	70	72	75
8.2	53	55	57	60	62	64	66	68	70	72
8.4	52	54	56	58	60	62	64	66	68	71
8.6	50	52	54	56	58	60	62	64	66	69
8.8	48	50	52	54	56	58	60	63	65	67
9.0	47	49	51	53	55	57	59	61	63	65
9.2	45	47	49	51	53	55	57	59	61	63
9.4	44	45	47	49	51	53	55	57	59	61
9.6	42	44	46	48	50	52	54	55	58	59
9.8	41	42	44	46	48	50	52	54	56	58
10.0	39	41	43	45	47	48	50	52	54	56
10.2	38	40	41	43	45	47	49	51	53	54
10.4	36	38	40	42	44	45	47	49	51	53
10.6	35	37	39	40	42	44	46	48	49	51
10.8	34	35	37	39	41	42	44	46	48	50

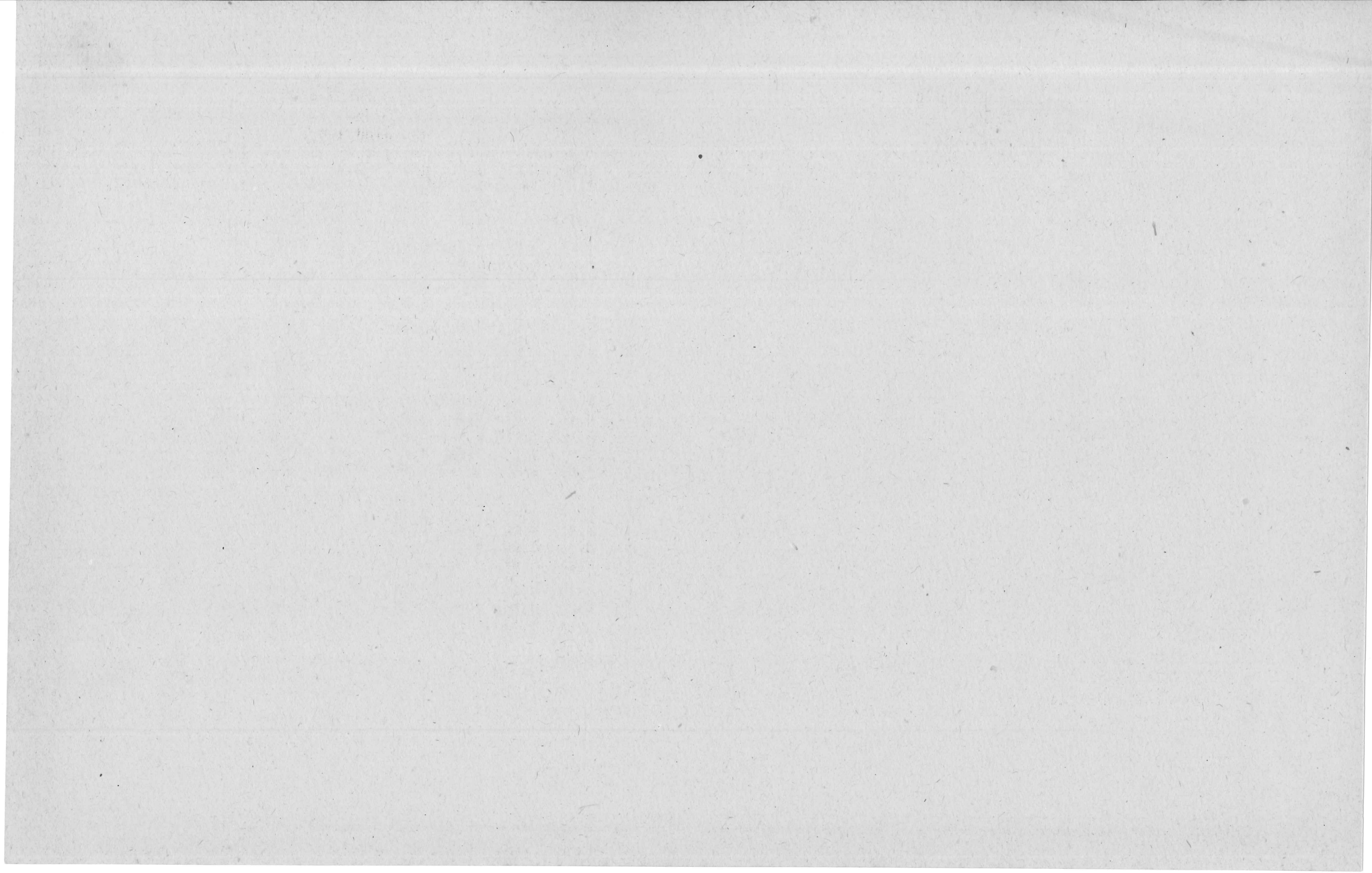
Wet Bulb 4.0 to 5.8
Dry Bulb 11.0 to 16.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
11.0	-4.9	-4.2	-3.6	-2.9	-2.3	-1.7	-1.1	-0.6	-0.0	0.5
11.2	-5.2	-4.6	-3.9	-3.2	-2.6	-2.0	-1.4	-0.9	-0.3	0.2
11.4	-5.6	-4.9	-4.2	-3.6	-2.9	-2.3	-1.7	-1.1	-0.5	0.0
11.6	-6.0	-5.2	-4.5	-3.9	-3.2	-2.6	-2.0	-1.4	-0.8	-0.3
11.8	-6.4	-5.6	-4.9	-4.2	-3.5	-2.9	-2.3	-1.7	-1.1	-0.5
12.0	-6.7	-6.0	-5.2	-4.5	-3.8	-3.2	-2.6	-1.9	-1.4	-0.8
12.2	-7.1	-6.3	-5.6	-4.9	-4.2	-3.5	-2.9	-2.2	-1.6	-1.0
12.4	-7.5	-6.7	-6.0	-5.2	-4.5	-3.8	-3.2	-2.5	-1.9	-1.3
12.6	-8.0	-7.1	-6.3	-5.6	-4.8	-4.1	-3.5	-2.8	-2.2	-1.6
12.8	-8.4	-7.5	-6.7	-5.9	-5.2	-4.5	-3.8	-3.1	-2.5	-1.9
13.0	-8.8	-8.0	-7.1	-6.3	-5.5	-4.8	-4.1	-3.4	-2.8	-2.2
13.2	-9.3	-8.4	-7.5	-6.7	-5.9	-5.2	-4.4	-3.8	-3.1	-2.5
13.4	-9.7	-8.8	-7.9	-7.1	-6.3	-5.5	-4.8	-4.1	-3.4	-2.8
13.6	-10.2	-9.3	-8.3	-7.5	-6.7	-5.9	-5.1	-4.4	-3.7	-3.0
13.8	-10.7	-9.7	-8.8	-7.9	-7.1	-6.3	-5.5	-4.7	-4.0	-3.4
14.0	-11.3	-10.2	-9.3	-8.3	-7.5	-6.6	-5.9	-5.1	-4.4	-3.7
14.2	-11.9	-10.7	-9.7	-8.8	-7.9	-7.0	-6.2	-5.4	-4.7	-4.0
14.4	-12.4	-11.3	-10.2	-9.2	-8.3	-7.4	-6.6	-5.8	-5.0	-4.3
14.6	-13.0	-11.8	-10.7	-9.7	-8.7	-7.8	-7.0	-6.2	-5.4	-4.7
14.8	-13.6	-12.4	-11.3	-10.2	-9.2	-8.3	-7.4	-6.6	-5.8	-5.0
15.0	-14.3	-13.0	-11.8	-10.7	-9.7	-8.7	-7.8	-7.0	-6.1	-5.4
15.2	-14.9	-13.6	-12.4	-11.2	-10.2	-9.2	-8.2	-7.4	-6.5	-5.7
15.4	-15.7	-14.3	-13.0	-11.8	-10.7	-9.7	-8.7	-7.8	-6.9	-6.1
15.6	-16.4	-14.9	-13.6	-12.4	-11.2	-10.1	-9.2	-8.2	-7.3	-6.5
15.8	-17.2	-15.7	-14.2	-13.0	-11.8	-10.6	-9.6	-8.6	-7.7	-6.8
16.0	-18.1	-16.4	-14.9	-13.6	-12.3	-11.2	-10.1	-9.1	-8.1	-7.2
16.2	-19.1	-17.2	-15.7	-14.2	-12.9	-11.7	-10.6	-9.6	-8.6	-7.7
16.4	-20.0	-18.1	-16.4	-14.9	-13.5	-12.3	-11.1	-10.1	-9.0	-8.1
16.6	-21.1	-19.0	-17.2	-15.6	-14.2	-12.8	-11.7	-10.6	-9.5	-8.5
16.8	-22.3	-19.9	-18.1	-16.3	-14.8	-13.5	-12.2	-11.1	-10.0	-9.0

Relative Humidity (%) (700 mb.)

Dry Bulb °C	Wet Bulb °C									
	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
11.0	32	34	36	38	39	41	43	45	46	48
11.2	31	33	35	36	38	40	41	43	45	47
11.4	30	32	33	35	37	38	40	42	44	45
11.6	29	30	32	34	35	37	39	40	42	44
11.8	27	29	31	32	34	36	37	39	41	43
12.0	26	28	30	31	33	34	36	38	39	41
12.2	25	27	28	30	32	33	35	37	38	40
12.4	24	26	27	29	30	32	34	35	37	39
12.6	23	25	26	28	29	31	32	34	36	37
12.8	22	23	25	27	28	30	31	33	34	36
13.0	21	22	24	26	27	29	30	32	33	35
13.2	20	21	23	24	26	27	29	31	32	34
13.4	19	20	22	23	25	26	28	29	31	32
13.6	18	19	21	22	24	25	27	28	30	31
13.8	17	19	20	21	23	24	26	27	29	30
14.0	16	18	19	20	22	23	25	26	28	29
14.2	15	17	18	19	21	22	24	25	27	28
14.4	14	16	17	19	20	21	23	24	26	27
14.6	14	15	16	18	19	20	22	23	25	26
14.8	13	14	15	17	18	19	21	22	24	25
15.0	12	13	15	16	17	19	20	21	23	24
15.2	11	12	14	15	16	18	19	20	22	23
15.4	10	12	13	14	15	17	18	20	21	22
15.6	10	11	12	13	15	16	17	19	20	21
15.8	9	10	11	13	14	15	16	18	19	20
16.0	8	9	11	12	13	14	16	17	18	20
16.2	7	9	10	11	12	14	15	16	17	19
16.4	7	8	9	10	12	13	14	15	17	18
16.6	6	7	8	10	11	12	13	15	16	17
16.8	5	7	8	9	10	11	13	14	15	16



Wet Bulb 6.0 to 7.8
 Dry Bulb 6.0 to 11.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
6.0	6.0									
6.2	5.8	6.2								
6.4	5.6	6.0	6.4							
6.6	5.5	5.9	6.2	6.6						
6.8	5.3	5.7	6.1	6.4	6.8					
7.0	5.1	5.5	5.9	6.3	6.6	7.0				
7.2	4.9	5.3	5.7	6.1	6.5	6.8	7.2			
7.4	4.8	5.1	5.5	5.9	6.3	6.7	7.0	7.4		
7.6	4.6	5.0	5.4	5.7	6.1	6.5	6.9	7.2	7.6	
7.8	4.4	4.8	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8
8.0	4.2	4.6	5.0	5.4	5.8	6.2	6.6	6.9	7.3	7.7
8.2	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.7	7.1	7.5
8.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.3
8.6	3.6	4.0	4.4	4.9	5.2	5.6	6.0	6.4	6.8	7.2
8.8	3.4	3.8	4.2	4.7	5.1	5.5	5.9	6.3	6.6	7.0
9.0	3.2	3.6	4.1	4.5	4.9	5.3	5.7	6.1	6.5	6.8
9.2	3.0	3.4	3.9	4.3	4.7	5.1	5.5	5.9	6.3	6.7
9.4	2.8	3.2	3.7	4.1	4.5	4.9	5.3	5.7	6.1	6.5
9.6	2.6	3.0	3.5	3.9	4.3	4.7	5.1	5.6	6.0	6.3
9.8	2.3	2.8	3.3	3.7	4.1	4.6	5.0	5.4	5.8	6.2
10.0	2.1	2.6	3.0	3.5	3.9	4.4	4.8	5.2	5.6	6.0
10.2	1.9	2.4	2.8	3.3	3.7	4.2	4.6	5.0	5.4	5.8
10.4	1.7	2.2	2.6	3.1	3.5	4.0	4.4	4.8	5.2	5.7
10.6	1.5	2.0	2.4	2.9	3.3	3.8	4.2	4.7	5.1	5.5
10.8	1.2	1.7	2.2	2.7	3.1	3.6	4.0	4.5	4.9	5.3
11.0	1.0	1.5	2.0	2.5	2.9	3.4	3.8	4.3	4.7	5.1
11.2	0.8	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.5	4.9
11.4	0.5	1.0	1.5	2.0	2.5	3.0	3.4	3.9	4.3	4.8
11.6	0.3	0.8	1.3	1.8	2.3	2.8	3.2	3.7	4.1	4.6
11.8	0.0	0.6	1.1	1.6	2.1	2.6	3.0	3.5	3.9	4.4

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
6.0	100									
6.2	97	100								
6.4	95	98	100							
6.6	93	95	98	100						
6.8	90	93	95	98	100					
7.0	88	90	93	95	98	100				
7.2	86	88	90	93	95	98	100			
7.4	83	86	88	90	93	95	98	100		
7.6	81	83	86	88	90	93	95	98	100	
7.8	79	81	83	86	88	90	93	95	98	100
8.0	77	79	81	84	86	88	91	93	95	98
8.2	75	77	79	81	84	86	88	91	93	95
8.4	73	75	77	79	82	84	86	88	91	93
8.6	71	73	75	77	79	82	84	86	88	91
8.8	69	71	73	75	77	80	82	84	86	89
9.0	67	69	71	73	75	78	80	82	84	86
9.2	65	67	69	71	73	76	78	80	82	84
9.4	63	65	67	69	72	74	76	78	80	82
9.6	61	63	66	68	70	72	74	76	78	80
9.8	60	62	64	66	68	70	72	74	76	78
10.0	58	60	62	64	66	68	70	72	74	76
10.2	56	58	60	62	64	66	68	70	72	74
10.4	55	57	59	61	62	64	66	68	70	72
10.6	53	55	57	59	61	63	65	67	69	71
10.8	52	53	55	57	59	61	63	65	67	69
11.0	50	52	54	56	57	59	61	63	65	67
11.2	49	50	52	54	56	58	60	61	63	65
11.4	47	49	51	52	54	56	58	60	62	64
11.6	46	47	49	51	53	55	56	58	60	62
11.8	44	46	48	50	51	53	55	57	58	60

Wet Bulb 6.0 to 7.8
Dry Bulb 12.0 to 17.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
12.0	-0.2	0.3	0.8	1.3	1.9	2.3	2.8	3.3	3.7	4.2
12.2	-0.5	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.5	4.0
12.4	-0.7	-0.2	0.4	0.9	1.4	1.9	2.4	2.9	3.3	3.8
12.6	-1.0	-0.5	0.1	0.6	1.2	1.7	2.2	2.7	3.1	3.6
12.8	-1.3	-0.7	-0.1	0.4	0.9	1.4	2.0	2.4	2.9	3.4
13.0	-1.6	-1.0	-0.4	0.2	0.7	1.2	1.7	2.2	2.7	3.2
13.2	-1.8	-1.2	-0.7	-0.1	0.4	1.0	1.5	2.0	2.5	3.0
13.4	-2.1	-1.5	-0.9	-0.3	0.2	0.8	1.3	1.8	2.3	2.8
13.6	-2.4	-1.8	-1.2	-0.6	0.0	0.5	1.0	1.5	2.1	2.6
13.8	-2.7	-2.1	-1.5	-0.9	-0.3	0.3	0.8	1.3	1.8	2.3
14.0	-3.0	-2.4	-1.7	-1.1	-0.5	0.0	0.6	1.1	1.6	2.1
14.2	-3.3	-2.7	-2.0	-1.4	-0.8	-0.2	0.3	0.9	1.4	1.9
14.4	-3.6	-3.0	-2.3	-1.7	-1.1	-0.5	0.1	0.6	1.2	1.7
14.6	-4.0	-3.3	-2.6	-2.0	-1.4	-0.8	-0.2	0.4	0.9	1.4
14.8	-4.3	-3.6	-2.9	-2.2	-1.6	-1.0	-0.5	0.1	0.7	1.2
15.0	-4.6	-3.9	-3.2	-2.6	-1.9	-1.3	-0.7	-0.1	0.4	1.0
15.2	-5.0	-4.2	-3.5	-2.9	-2.2	-1.6	-1.0	-0.4	0.2	0.8
15.4	-5.3	-4.6	-3.8	-3.2	-2.5	-1.9	-1.2	-0.6	-0.1	0.5
15.6	-5.7	-4.9	-4.2	-3.5	-2.8	-2.1	-1.5	-0.9	-0.3	0.3
15.8	-6.1	-5.3	-4.5	-3.8	-3.1	-2.4	-1.8	-1.2	-0.6	0.0
16.0	-6.4	-5.6	-4.9	-4.1	-3.4	-2.7	-2.1	-1.4	-0.8	-0.2
16.2	-6.8	-6.0	-5.2	-4.4	-3.7	-3.0	-2.4	-1.7	-1.1	-0.5
16.4	-7.2	-6.4	-5.6	-4.8	-4.0	-3.3	-2.7	-2.0	-1.4	-0.8
16.6	-7.6	-6.7	-5.9	-5.1	-4.4	-3.7	-3.0	-2.3	-1.7	-1.0
16.8	-8.0	-7.1	-6.3	-5.5	-4.7	-4.0	-3.3	-2.6	-1.9	-1.3
17.0	-8.5	-7.5	-6.7	-5.9	-5.0	-4.3	-3.6	-2.9	-2.2	-1.6
17.2	-8.9	-8.0	-7.1	-6.2	-5.4	-4.6	-3.9	-3.2	-2.5	-1.9
17.4	-9.4	-8.4	-7.5	-6.6	-5.8	-5.0	-4.2	-3.5	-2.8	-2.1
17.6	-9.9	-8.9	-7.9	-7.0	-6.2	-5.3	-4.6	-3.8	-3.1	-2.4
17.8	-10.4	-9.3	-8.3	-7.4	-6.5	-5.7	-4.9	-4.2	-3.4	-2.7

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
12.0	43	45	46	48	50	52	53	55	57	59
12.2	42	43	45	47	48	50	52	54	55	57
12.4	40	42	44	45	47	49	50	52	54	56
12.6	39	41	42	44	46	47	49	51	52	54
12.8	38	39	41	43	44	46	48	49	51	53
13.0	36	38	40	41	43	45	46	48	50	51
13.2	35	37	38	40	42	43	45	47	48	50
13.4	34	36	37	39	40	42	44	45	47	48
13.6	33	34	36	38	39	41	42	44	46	47
13.8	32	33	35	36	38	39	41	43	44	46
14.0	31	32	34	35	37	38	40	41	43	45
14.2	30	31	33	34	36	37	39	40	42	43
14.4	28	30	31	33	34	36	37	39	40	42
14.6	27	29	30	32	33	35	36	38	39	41
14.8	26	28	29	31	32	34	35	37	38	40
15.0	25	27	28	30	31	33	34	35	37	38
15.2	25	26	27	29	30	32	33	34	36	37
15.4	24	25	26	28	29	30	32	33	35	36
15.6	23	24	25	27	28	29	31	32	34	35
15.8	22	23	24	26	27	28	30	31	33	34
16.0	21	22	23	25	26	28	29	30	32	33
16.2	20	21	23	24	25	27	28	29	31	32
16.4	19	20	22	23	24	26	27	28	30	31
16.6	18	20	21	22	23	25	26	27	29	30
16.8	17	19	20	21	23	24	25	26	28	29
17.0	17	18	19	20	22	23	24	26	27	28
17.2	16	17	18	20	21	22	23	25	26	27
17.4	15	16	18	19	20	21	23	24	25	26
17.6	14	16	17	18	19	20	22	23	24	25
17.8	14	15	16	17	18	20	21	22	23	25

Wet Bulb 6.0 to 7.8
 Dry Bulb 18.0 to 23.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
18.0	-10.9	-9.8	-8.8	-7.8	-6.9	-6.1	-5.3	-4.5	-3.8	-3.0
18.2	-11.4	-10.3	-9.2	-8.3	-7.3	-6.5	-5.6	-4.8	-4.1	-3.4
18.4	-12.0	-10.8	-9.7	-8.7	-7.7	-6.8	-6.0	-5.2	-4.4	-3.7
18.6	-12.5	-11.3	-10.2	-9.2	-8.2	-7.2	-6.4	-5.5	-4.7	-4.0
18.8	-13.1	-11.9	-10.7	-9.6	-8.6	-7.7	-6.7	-5.9	-5.1	-4.3
19.0	-13.8	-12.5	-11.3	-10.1	-9.1	-8.1	-7.2	-6.3	-5.5	-4.6
19.2	-14.5	-13.1	-11.8	-10.6	-9.5	-8.5	-7.6	-6.7	-5.8	-5.0
19.4	-15.1	-13.7	-12.4	-11.2	-10.0	-9.0	-8.0	-7.1	-6.2	-5.4
19.6	-15.9	-14.3	-13.0	-11.7	-10.5	-9.4	-8.4	-7.5	-6.6	-5.7
19.8	-16.6	-15.0	-13.6	-12.3	-11.0	-9.9	-8.9	-7.9	-7.0	-6.1
20.0	-17.4	-15.7	-14.2	-12.8	-11.6	-10.4	-9.3	-8.3	-7.4	-6.5
20.2	-18.3	-16.5	-14.9	-13.5	-12.2	-10.9	-9.8	-8.8	-7.8	-6.8
20.4	-19.2	-17.4	-15.7	-14.1	-12.7	-11.5	-10.3	-9.2	-8.2	-7.2
20.6	-20.3	-18.2	-16.4	-14.8	-13.3	-12.0	-10.8	-9.7	-8.7	-7.7
20.8	-21.4	-19.1	-17.2	-15.5	-14.0	-12.6	-11.4	-10.2	-9.1	-8.1
21.0	-22.6	-20.1	-18.1	-16.3	-14.6	-13.2	-11.9	-10.7	-9.6	-8.5
21.2	-23.9	-21.2	-19.0	-17.1	-15.3	-13.9	-12.5	-11.2	-10.1	-9.0
21.4	-25.4	-22.4	-19.9	-17.9	-16.1	-14.5	-13.1	-11.8	-10.6	-9.4
21.6	-27.0	-23.7	-21.0	-18.8	-16.9	-15.2	-13.7	-12.4	-11.1	-9.9
21.8	-29.0	-25.1	-22.1	-19.8	-17.7	-15.9	-14.4	-13.0	-11.7	-10.4
22.0	-31.3	-26.9	-23.5	-20.8	-18.6	-16.8	-15.1	-13.6	-12.2	-11.0
22.2	-34.5	-28.8	-25.0	-21.9	-19.6	-17.6	-15.8	-14.2	-12.8	-11.5
22.4	-38.5	-31.1	-26.6	-23.3	-20.6	-18.5	-16.6	-14.9	-13.4	-12.1
22.6	-45.1	-33.9	-28.4	-24.7	-21.7	-19.4	-17.4	-15.6	-14.0	-12.6
22.8		-37.7	-30.6	-26.3	-23.1	-20.4	-18.2	-16.4	-14.8	-13.2
23.0		-43.5	-33.3	-28.1	-24.4	-21.5	-19.2	-17.2	-15.5	-13.9
23.2			-36.9	-30.2	-26.0	-22.7	-20.2	-18.1	-16.2	-14.6
23.4			-42.9	-32.8	-27.7	-24.2	-21.3	-19.0	-17.0	-15.3
23.6				-36.1	-29.8	-25.7	-22.5	-19.9	-17.8	-16.0
23.8				-41.6	-32.3	-27.4	-23.8	-21.0	-18.7	-16.8

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
18.0	13	14	15	16	18	19	20	21	22	24
18.2	12	13	15	16	17	18	19	20	22	23
18.4	12	13	14	15	16	17	18	20	21	21
18.6	11	12	13	14	15	17	18	19	20	20
18.8	10	11	12	14	15	16	17	18	19	20
19.0	10	11	12	13	14	15	16	17	19	20
19.2	9	10	11	12	13	14	16	17	18	19
19.4	8	9	11	12	13	14	15	16	17	18
19.6	8	9	10	11	12	13	14	15	16	18
19.8	7	8	9	10	11	12	14	15	16	17
20.0	7	8	9	10	11	12	13	14	15	16
20.2	6	7	8	9	10	11	12	13	14	15
20.4	6	7	8	9	10	11	12	13	14	15
20.6	5	6	7	8	9	10	11	12	13	14
20.8	5	5	6	7	8	9	10	11	13	14
21.0	4	5	6	7	8	9	10	11	12	13
21.2	4	4	5	6	7	8	9	10	11	12
21.4	3	4	5	6	7	8	9	10	11	12
21.6	3	4	4	5	6	7	8	9	10	11
21.8	2	3	4	5	6	7	8	9	10	11
22.0	2	3	3	4	5	6	7	8	9	10
22.2	1	2	3	4	5	6	7	8	9	9
22.4	1	2	3	3	4	5	6	7	8	9
22.6		1	2	3	4	5	6	7	8	8
22.8		1	2	3	3	4	5	6	7	8
23.0			1	2	3	4	5	6	7	7
23.2			1	2	3	3	4	5	6	7
23.4				1	2	3	4	5	6	6
23.6				1	2	3	3	4	5	6
23.8				1	1	2	3	4	5	6

Wet Bulb 6.0 to 7.8
Dry Bulb 24.0 to 26.6

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
24.0					-33.5	-29.4	-25.2	-22.3	-19.7	-17.6
24.2					-40.5	-31.8	-26.9	-23.5	-20.8	-18.5
24.4					-49.2	-34.8	-29.0	-25.0	-21.9	-19.5
24.6						-39.0	-31.3	-26.6	-23.2	-20.5
24.8						-46.9	-34.2	-28.4	-24.6	-21.6
25.0							-38.1	-30.6	-26.1	-22.8
25.2							-44.3	-33.3	-27.9	-24.2
25.4								-37.3	-30.2	-25.7
25.6								-42.9	-32.8	-27.5
25.8									-36.1	-29.6
26.0									-41.0	-32.0
26.2										-35.1
26.4										-39.5
26.6										-46.9

Wet Bulb 8.0 to 9.8
Dry Bulb 8.0 to 9.8

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
8.0	8.0									
8.2	7.8	8.2								
8.4	7.7	8.1	8.4							
8.6	7.5	7.9	8.3	8.6						
8.8	7.4	7.7	8.1	8.5	8.8					
9.0	7.2	7.6	7.9	8.3	8.7	9.0				
9.2	7.1	7.4	7.8	8.1	8.5	8.9	9.2			
9.4	6.9	7.3	7.6	8.0	8.3	8.7	9.1	9.4		
9.6	6.7	7.1	7.5	7.8	8.2	8.6	8.9	9.3	9.6	
9.8	6.6	7.0	7.3	7.7	8.1	8.4	8.8	9.1	9.5	9.8

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8
24.0					1	2	3	3	4	5
24.2					1	1	2	3	4	5
24.4						1	2	3	3	4
24.6						1	1	2	3	4
24.8							1	2	3	3
25.0							1	2	2	3
25.2								1	2	3
25.4								1	2	2
25.6									1	2
25.8									1	2
26.0									1	1
26.2										1
26.4										1

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
8.0	100									
8.2	98	100								
8.4	95	98	100							
8.6	93	95	98	100						
8.8	91	93	95	98	100					
9.0	89	91	93	95	98	100				
9.2	86	89	91	93	95	98	100			
9.4	84	87	89	91	93	95	98	100		
9.6	82	84	87	89	91	93	95	98	100	
9.8	80	82	85	87	89	91	93	95	98	100

Wet Bulb 8.0 to 9.8
Dry Bulb 10.0 to 15.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
10.0	6.4	6.8	7.2	7.5	7.9	8.3	8.6	9.0	9.3	9.7
10.2	6.2	6.6	7.0	7.4	7.7	8.1	8.5	8.8	9.2	9.5
10.4	6.1	6.4	6.8	7.2	7.6	8.0	8.3	8.7	9.0	9.4
10.6	5.9	6.3	6.7	7.1	7.4	7.8	8.2	8.5	8.9	9.2
10.8	5.7	6.1	6.5	6.9	7.3	7.7	8.0	8.4	8.7	9.1
11.0	5.5	5.9	6.3	6.7	7.1	7.5	7.9	8.2	8.6	9.0
11.2	5.4	5.8	6.2	6.6	7.0	7.3	7.7	8.1	8.4	8.8
11.4	5.2	5.6	6.0	6.4	6.8	7.2	7.6	7.9	8.3	8.7
11.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.1	8.5
11.8	4.8	5.2	5.6	6.1	6.4	6.8	7.2	7.6	8.0	8.4
12.0	4.6	5.1	5.5	5.9	6.3	6.7	7.1	7.5	7.8	8.2
12.2	4.4	4.9	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1
12.4	4.2	4.7	5.1	5.5	5.9	6.3	6.7	7.1	7.5	7.9
12.6	4.0	4.5	4.9	5.3	5.8	6.2	6.6	7.0	7.4	7.7
12.8	3.8	4.3	4.7	5.2	5.6	6.0	6.4	6.8	7.2	7.6
13.0	3.6	4.1	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4
13.2	3.4	3.9	4.4	4.8	5.2	5.7	6.1	6.5	6.9	7.3
13.4	3.2	3.7	4.2	4.6	5.1	5.5	5.9	6.3	6.7	7.1
13.6	3.0	3.5	4.0	4.4	4.9	5.3	5.7	6.1	6.6	7.0
13.8	2.8	3.3	3.8	4.2	4.7	5.1	5.6	6.0	6.4	6.8
14.0	2.6	3.1	3.6	4.0	4.5	4.9	5.4	5.8	6.2	6.6
14.2	2.4	2.9	3.4	3.8	4.3	4.8	5.2	5.6	6.0	6.4
14.4	2.2	2.7	3.2	3.6	4.1	4.6	5.0	5.4	5.9	6.3
14.6	2.0	2.5	3.0	3.4	3.9	4.4	4.8	5.3	5.7	6.1
14.8	1.8	2.2	2.7	3.2	3.7	4.2	4.6	5.1	5.5	5.9
15.0	1.5	2.0	2.5	3.0	3.5	4.0	4.4	4.9	5.3	5.8
15.2	1.3	1.8	2.3	2.8	3.3	3.8	4.2	4.7	5.1	5.6
15.4	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.5	5.0	5.4
15.6	0.8	1.4	1.9	2.4	2.9	3.4	3.9	4.3	4.8	5.2
15.8	0.6	1.1	1.6	2.2	2.7	3.2	3.7	4.1	4.6	5.1

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
10.0	78	80	82	85	87	89	91	93	96	98
10.2	76	78	80	83	85	87	89	91	93	96
10.4	74	76	79	81	83	85	87	89	91	93
10.6	73	75	77	79	81	83	85	87	89	91
10.8	71	73	75	77	79	81	83	85	87	89
11.0	69	71	73	75	77	79	81	83	85	87
11.2	67	69	71	73	75	77	79	81	83	85
11.4	65	67	69	71	73	75	77	79	81	83
11.6	64	66	68	70	71	73	75	77	79	81
11.8	62	64	66	68	70	72	74	75	77	79
12.0	61	62	64	66	68	70	72	74	76	78
12.2	59	61	63	64	66	68	70	72	74	76
12.4	57	59	61	63	65	67	68	70	72	74
12.6	56	58	59	61	63	65	67	69	70	72
12.8	54	56	58	60	61	63	65	67	69	71
13.0	53	55	56	58	60	62	63	65	67	69
13.2	52	53	55	57	58	60	62	64	65	67
13.4	50	52	53	55	57	59	60	62	64	66
13.6	49	50	52	54	56	57	59	61	62	64
13.8	47	49	51	52	54	56	57	59	61	63
14.0	46	48	49	51	53	54	56	58	59	61
14.2	45	46	48	50	51	53	55	56	58	60
14.4	44	45	47	48	50	52	53	55	56	58
14.6	42	44	45	47	49	50	52	53	55	57
14.8	41	43	44	46	47	49	51	52	54	55
15.0	40	41	43	45	46	48	49	51	52	54
15.2	39	40	42	43	45	46	48	49	51	53
15.4	38	39	41	42	44	45	47	48	50	51
15.6	37	38	40	41	42	44	45	47	48	50
15.8	36	37	38	40	41	43	44	46	47	49

Wet Bulb 8.0 to 9.8
Dry Bulb 16.0 to 21.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
16.0	0.3	0.9	1.4	2.0	2.5	3.0	3.5	3.9	4.4	4.9
16.2	0.1	0.6	1.2	1.7	2.2	2.8	3.2	3.7	4.2	4.7
16.4	-0.2	0.4	1.0	1.5	2.0	2.6	3.0	3.5	4.0	4.5
16.6	-0.4	0.2	0.7	1.3	1.8	2.3	2.8	3.3	3.8	4.3
16.8	-0.7	-0.1	0.5	1.1	1.6	2.1	2.6	3.1	3.6	4.1
17.0	-0.9	-0.3	0.2	0.8	1.4	1.9	2.4	2.9	3.4	3.9
17.2	-1.2	-0.6	0.0	0.6	1.1	1.7	2.2	2.7	3.2	3.7
17.4	-1.5	-0.9	-0.3	0.3	0.9	1.4	2.0	2.5	3.0	3.5
17.6	-1.8	-1.1	-0.5	0.1	0.6	1.2	1.8	2.3	2.8	3.3
17.8	-2.1	-1.4	-0.8	-0.2	0.4	1.0	1.5	2.1	2.6	3.1
18.0	-2.4	-1.7	-1.0	-0.4	0.2	0.7	1.3	1.9	2.4	2.9
18.2	-2.6	-2.0	-1.3	-0.7	-0.1	0.5	1.1	1.6	2.1	2.7
18.4	-2.9	-2.3	-1.6	-1.0	-0.4	0.3	0.8	1.4	1.9	2.5
18.6	-3.2	-2.6	-1.9	-1.2	-0.6	0.0	0.6	1.2	1.7	2.2
18.8	-3.5	-2.9	-2.2	-1.5	-0.9	-0.3	0.3	0.9	1.5	2.0
19.0	-3.9	-3.2	-2.5	-1.8	-1.1	-0.5	0.1	0.7	1.3	1.8
19.2	-4.2	-3.5	-2.8	-2.1	-1.4	-0.8	-0.2	0.4	1.0	1.6
19.4	-4.6	-3.8	-3.1	-2.4	-1.7	-1.0	-0.4	0.2	0.8	1.3
19.6	-4.9	-4.1	-3.4	-2.7	-2.0	-1.3	-0.7	-0.1	0.5	1.1
19.8	-5.2	-4.5	-3.7	-3.0	-2.3	-1.6	-0.9	-0.3	0.3	0.9
20.0	-5.6	-4.8	-4.0	-3.3	-2.6	-1.9	-1.2	-0.6	0.0	0.6
20.2	-6.0	-5.1	-4.3	-3.6	-2.9	-2.2	-1.5	-0.8	-0.2	0.4
20.4	-6.4	-5.5	-4.7	-3.9	-3.2	-2.5	-1.8	-1.1	-0.5	0.1
20.6	-6.7	-5.9	-5.0	-4.3	-3.5	-2.8	-2.1	-1.4	-0.7	-0.1
20.8	-7.1	-6.3	-5.4	-4.6	-3.8	-3.0	-2.4	-1.7	-1.0	-0.4
21.0	-7.5	-6.6	-5.8	-4.9	-4.1	-3.4	-2.6	-1.9	-1.3	-0.6
21.2	-8.0	-7.0	-6.1	-5.3	-4.5	-3.7	-2.9	-2.2	-1.5	-0.9
21.4	-8.4	-7.4	-6.5	-5.6	-4.8	-4.0	-3.2	-2.5	-1.8	-1.2
21.6	-8.9	-7.8	-6.9	-6.0	-5.1	-4.3	-3.6	-2.8	-2.1	-1.4
21.8	-9.3	-8.3	-7.3	-6.4	-5.5	-4.7	-3.9	-3.1	-2.4	-1.7

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
16.0	34	36	37	39	40	42	43	45	46	48
16.2	33	35	36	38	39	40	42	43	45	46
16.4	32	34	35	37	38	39	41	42	44	45
16.6	31	33	34	35	37	38	40	41	43	44
16.8	30	32	33	34	36	37	39	40	41	43
17.0	29	31	32	33	35	36	38	39	40	42
17.2	28	30	31	32	34	35	37	38	39	41
17.4	28	29	30	31	33	34	35	37	38	40
17.6	27	28	29	31	32	33	34	36	37	38
17.8	26	27	28	30	31	32	33	35	36	37
18.0	25	26	27	29	30	31	33	34	35	36
18.2	24	25	27	28	29	30	32	33	34	35
18.4	23	24	26	27	28	29	31	32	33	34
18.6	22	24	25	26	27	29	30	31	32	34
18.8	22	23	24	25	26	28	29	30	31	33
19.0	21	22	23	24	26	27	28	29	30	32
19.2	20	21	22	24	25	26	27	28	30	31
19.4	19	21	22	23	24	25	26	27	29	30
19.6	19	20	21	22	23	24	25	27	28	29
19.8	18	19	20	21	22	24	25	26	27	28
20.0	17	18	19	21	22	23	24	25	26	27
20.2	17	18	19	20	21	22	23	24	25	27
20.4	16	17	18	19	20	21	22	23	25	26
20.6	15	16	17	18	19	21	22	23	24	25
20.8	15	16	17	18	19	20	21	22	23	24
21.0	14	15	16	17	18	19	20	21	22	23
21.2	13	14	15	16	17	18	20	21	22	23
21.4	13	14	15	16	17	18	19	20	21	22
21.6	12	13	14	15	16	17	18	19	20	21
21.8	12	13	14	15	16	17	18	19	20	21

Wet Bulb 8.0 to 9.8
Dry Bulb 22.0 to 27.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
22.0	-9.8	-8.7	-7.7	-6.8	-5.9	-5.0	-4.2	-3.4	-2.7	-2.0
22.2	-10.3	-9.2	-8.1	-7.2	-6.3	-5.4	-4.6	-3.8	-3.0	-2.3
22.4	-10.8	-9.7	-8.6	-7.6	-6.6	-5.8	-4.9	-4.1	-3.3	-2.6
22.6	-11.4	-10.1	-9.0	-8.0	-7.0	-6.1	-5.2	-4.4	-3.6	-2.9
22.8	-11.9	-10.6	-9.5	-8.5	-7.4	-6.5	-5.6	-4.8	-4.0	-3.2
23.0	-12.5	-11.2	-10.0	-8.9	-7.9	-6.9	-6.0	-5.1	-4.3	-3.5
23.2	-13.1	-11.8	-10.5	-9.4	-8.3	-7.3	-6.4	-5.5	-4.6	-3.8
23.4	-13.7	-12.3	-11.0	-9.8	-8.7	-7.7	-6.7	-5.8	-5.0	-4.2
23.6	-14.3	-12.9	-11.6	-10.3	-9.2	-8.1	-7.1	-6.2	-5.3	-4.5
23.8	-15.1	-13.5	-12.1	-10.8	-9.7	-8.6	-7.6	-6.6	-5.7	-4.8
24.0	-15.8	-14.2	-12.7	-11.4	-10.2	-9.0	-8.0	-7.0	-6.1	-5.2
24.2	-16.6	-14.8	-13.3	-12.0	-10.7	-9.5	-8.4	-7.4	-6.4	-5.5
24.4	-17.4	-15.6	-14.0	-12.5	-11.2	-10.0	-8.9	-7.8	-6.8	-5.9
24.6	-18.2	-16.3	-14.6	-13.1	-11.8	-10.5	-9.3	-8.3	-7.2	-6.3
24.8	-19.1	-17.1	-15.3	-13.7	-12.3	-11.0	-9.8	-8.7	-7.7	-6.7
25.0	-20.2	-18.0	-16.1	-14.4	-12.9	-11.6	-10.3	-9.2	-8.1	-7.1
25.2	-21.3	-18.9	-16.9	-15.1	-13.6	-12.1	-10.8	-9.6	-8.5	-7.5
25.4	-22.5	-19.9	-17.7	-15.9	-14.2	-12.7	-11.4	-10.1	-8.9	-7.9
25.6	-23.8	-21.0	-18.6	-16.6	-14.9	-13.3	-11.9	-10.6	-9.4	-8.3
25.8	-25.2	-22.1	-19.6	-17.4	-15.6	-14.0	-12.5	-11.2	-9.9	-8.8
26.0	-26.9	-23.4	-20.6	-18.3	-16.3	-14.6	-13.1	-11.7	-10.4	-9.2
26.2	-29.0	-24.8	-21.7	-19.3	-17.1	-15.3	-13.7	-12.3	-10.9	-9.7
26.4	-31.3	-26.4	-23.1	-20.3	-18.1	-16.1	-14.4	-12.8	-11.5	-10.2
26.6	-34.2	-28.2	-24.4	-21.4	-19.0	-16.9	-15.1	-13.5	-12.1	-10.7
26.8	-38.1	-30.6	-26.0	-22.6	-19.9	-17.7	-15.8	-14.2	-12.6	-11.3
27.0	-44.3	-33.3	-27.7	-23.9	-21.0	-18.6	-16.6	-14.8	-13.2	-11.8
27.2		-36.9	-29.8	-25.4	-22.1	-19.6	-17.4	-15.5	-13.9	-12.4
27.4		-42.2	-32.3	-27.2	-23.5	-20.6	-18.3	-16.3	-14.5	-13.0
27.6			-35.8	-29.2	-25.0	-21.8	-19.2	-17.1	-15.3	-13.6
27.8			-40.5	-31.5	-26.6	-23.1	-20.2	-18.0	-16.0	-14.3

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
22.0	11	12	13	14	15	16	17	18	19	20
22.2	10	11	12	13	14	15	16	17	18	19
22.4	10	11	12	13	14	15	16	17	18	19
22.6	9	10	11	12	13	14	15	16	17	18
22.8	9	10	11	12	13	14	14	15	16	17
23.0	8	9	10	11	12	13	14	15	16	17
23.2	8	9	10	11	12	12	13	14	15	16
23.4	7	8	9	10	11	12	13	14	15	16
23.6	7	8	9	10	10	11	12	13	14	15
23.8	6	7	8	9	10	11	12	13	14	14
24.0	6	7	8	9	9	10	11	12	13	14
24.2	6	6	7	8	9	10	11	12	13	13
24.4	5	6	7	8	9	9	10	11	12	13
24.6	5	6	6	7	8	9	10	11	11	12
24.8	4	5	6	7	8	8	9	10	11	12
25.0	4	5	6	6	7	8	9	10	11	11
25.2	3	4	5	6	7	8	8	9	10	11
25.4	3	4	5	5	6	7	8	9	10	10
25.6	3	4	4	5	6	7	7	8	9	10
25.8	2	3	4	5	5	6	7	8	9	9
26.0	2	3	4	4	5	6	7	7	8	9
26.2	2	2	3	4	5	5	6	7	8	9
26.4	1	2	3	4	4	5	6	7	7	8
26.6	1	2	2	3	4	5	5	6	7	8
26.8	1	1	2	3	4	4	5	6	7	7
27.0		1	2	2	3	4	5	5	6	7
27.2		1	1	2	3	4	4	5	6	7
27.4			1	2	3	3	4	5	5	6
27.6			1	1	2	3	4	4	5	6
27.8				1	2	3	3	4	5	5

Wet Bulb 8.0 to 9.8
Dry Bulb 28.0 to 30.0

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
28.0		-49.2	-34.5	-28.4	-24.4	-21.3	-18.9	-16.8	-14.9	
28.2			-38.5	-30.6	-26.0	-22.6	-19.9	-17.6	-15.7	
28.4			-45.1	-33.3	-27.7	-23.9	-20.9	-18.5	-16.4	
28.6				-37.3	-29.8	-25.4	-22.0	-19.5	-17.3	
28.8				-42.9	-32.5	-27.0	-23.4	-20.5	-18.1	
29.0					-35.8	-29.0	-24.8	-21.6	-19.1	
29.2					-40.5	-31.5	-26.4	-22.8	-20.0	
29.4					-49.2	-34.5	-28.2	-24.2	-21.1	
29.6						-38.5	-30.4	-25.8	-22.4	
29.8						-45.1	-33.0	-27.5	-23.7	
30.0							-36.9	-29.6	-25.1	

Wet Bulb 10.0 to 11.8
Dry Bulb 10.0 to 12.8

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
10.0	10.0									
10.2	9.9	10.2								
10.4	9.7	10.1	10.4							
10.6	9.6	9.9	10.3	10.6						
10.8	9.4	9.8	10.1	10.5	10.8					
11.0	9.3	9.7	10.0	10.3	10.7	11.0				
11.2	9.2	9.5	9.9	10.2	10.5	11.9	11.2			
11.4	9.0	9.4	9.7	10.1	10.4	10.7	11.1	11.4		
11.6	8.9	9.2	9.6	9.9	10.3	10.6	10.9	11.3	11.6	
11.8	8.7	9.1	9.4	9.8	10.1	10.5	10.8	11.1	11.5	11.8
12.0	8.6	8.9	9.3	9.7	10.0	10.3	10.7	11.0	11.4	11.7
12.2	8.4	8.8	9.2	9.5	9.9	10.2	10.5	10.9	11.2	11.6
12.4	8.3	8.7	9.0	9.4	9.7	10.1	10.4	10.8	11.1	11.4
12.6	8.1	8.5	8.9	9.2	9.6	9.9	10.3	10.6	11.0	11.3
12.8	8.0	8.3	8.7	9.1	9.4	9.8	10.2	10.5	10.8	11.2

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8
28.0				1	2	2	3	4	4	5
28.2				1	1	2	3	3	4	5
28.4					1	2	2	3	4	4
28.6					1	1	2	3	3	4
28.8						1	2	2	3	4
29.0						1	1	2	3	3
29.2							1	2	2	3
29.4							1	1	2	3
29.6							1	1	2	2
29.8								1	2	2
30.0								1	1	2

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
10.0	100									
10.2	98	100								
10.4	96	98	100							
10.6	93	96	98	100						
10.8	91	93	96	98	100					
11.0	89	91	94	96	98	100				
11.2	87	89	91	94	96	98	100			
11.4	85	87	89	92	94	96	98	100		
11.6	83	85	87	89	92	94	96	98	100	
11.8	81	83	85	87	90	92	94	96	98	100
12.0	80	82	84	86	88	90	92	94	96	98
12.2	78	80	82	84	86	88	90	92	94	96
12.4	76	78	80	82	84	86	88	90	92	94
12.6	74	76	78	80	82	84	86	88	90	92
12.8	72	74	76	78	80	82	84	86	88	90

Wet Bulb 10.0 to 11.8
 Dry Bulb 13.0 to 18.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
13.0	7.8	8.2	8.6	8.9	9.3	9.7	10.0	10.4	10.7	11.0
13.2	7.7	8.1	8.4	8.8	9.2	9.5	9.9	10.2	10.6	10.9
13.4	7.5	7.9	8.3	8.7	9.0	9.4	9.7	10.1	10.4	10.8
13.6	7.4	7.7	8.1	8.5	8.9	9.2	9.6	10.0	10.3	10.7
13.8	7.2	7.6	8.0	8.3	8.7	9.1	9.5	9.8	10.2	10.5
14.0	7.0	7.4	7.8	8.2	8.6	9.0	9.3	9.7	10.0	10.4
14.2	6.9	7.3	7.7	8.1	8.4	8.8	9.2	9.5	9.9	10.3
14.4	6.7	7.1	7.5	7.9	8.3	8.7	9.0	9.4	9.8	10.1
14.6	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.6	10.0
14.8	6.4	6.8	7.2	7.6	8.0	8.4	8.7	9.1	9.5	9.9
15.0	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.3	9.7
15.2	6.0	6.4	6.9	7.3	7.7	8.1	8.4	8.8	9.2	9.6
15.4	5.9	6.3	6.7	7.1	7.5	7.9	8.3	8.7	9.1	9.4
15.6	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3
15.8	5.5	5.9	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.1
16.0	5.3	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0
16.2	5.1	5.6	6.0	6.4	6.9	7.3	7.7	8.1	8.5	8.9
16.4	5.0	5.4	5.8	6.3	6.7	7.1	7.5	7.9	8.3	8.7
16.6	4.8	5.2	5.7	6.1	6.5	7.0	7.4	7.8	8.2	8.6
16.8	4.6	5.0	5.5	5.9	6.4	6.8	7.2	7.6	8.0	8.4
17.0	4.4	4.9	5.3	5.8	6.2	6.6	7.0	7.5	7.9	8.3
17.2	4.2	4.7	5.1	5.6	6.0	6.4	6.9	7.3	7.7	8.1
17.4	4.0	4.5	4.9	5.4	5.9	6.3	6.7	7.1	7.6	8.0
17.6	3.8	4.3	4.8	5.2	5.7	6.1	6.5	7.0	7.4	7.8
17.8	3.6	4.1	4.6	5.0	5.5	5.9	6.4	6.8	7.2	7.6
18.0	3.4	3.9	4.4	4.9	5.3	5.8	6.2	6.6	7.1	7.5
18.2	3.2	3.7	4.2	4.7	5.1	5.6	6.0	6.5	6.9	7.3
18.4	3.0	3.5	4.0	4.5	4.9	5.4	5.9	6.3	6.7	7.2
18.6	2.8	3.3	3.8	4.3	4.8	5.2	5.7	6.1	6.6	7.0
18.8	2.6	3.1	3.6	4.1	4.6	5.0	5.5	6.0	6.4	6.8

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
13.0	71	73	74	76	78	80	82	84	86	88
13.2	69	71	73	75	76	78	80	82	84	86
13.4	67	69	71	73	75	77	78	80	82	84
13.6	66	68	69	71	73	75	77	79	80	82
13.8	64	66	68	70	71	73	75	77	79	81
14.0	63	65	66	68	70	72	73	75	77	79
14.2	61	63	65	66	68	70	72	74	75	77
14.4	60	62	63	65	67	68	70	72	74	75
14.6	58	60	62	63	65	67	69	70	72	74
14.8	57	59	60	62	64	65	67	69	70	72
15.0	56	57	59	60	62	64	65	67	69	71
15.2	54	56	57	59	61	62	64	66	67	69
15.4	53	54	56	58	59	61	63	64	66	68
15.6	52	53	55	56	58	60	61	63	64	66
15.8	50	52	53	55	57	58	60	61	63	65
16.0	49	51	52	54	55	57	58	60	62	63
16.2	48	49	51	52	54	55	57	59	60	62
16.4	47	48	50	51	53	54	56	57	59	60
16.6	45	47	48	50	51	53	54	56	57	59
16.8	44	46	47	49	50	52	53	55	56	58
17.0	43	45	46	47	49	50	52	53	55	56
17.2	42	43	45	46	48	49	51	52	54	55
17.4	41	42	44	45	47	48	49	51	52	54
17.6	40	41	43	44	45	47	48	50	51	53
17.8	39	40	42	43	44	46	47	49	50	51
18.0	38	39	40	42	43	45	46	47	49	50
18.2	37	38	39	41	42	43	45	46	48	49
18.4	36	37	38	40	41	42	44	45	46	48
18.6	35	36	37	39	40	41	43	44	45	47
18.8	34	35	36	38	39	40	42	43	44	46

Wet Bulb 10.0 to 11.8
 Dry Bulb 19.0 to 24.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
19.0	2.3	2.9	3.4	3.9	4.4	4.9	5.3	5.8	6.2	6.7
19.2	2.1	2.7	3.2	3.7	4.2	4.7	5.1	5.6	6.1	6.5
19.4	1.9	2.4	3.0	3.5	4.0	4.5	5.0	5.4	5.9	6.3
19.6	1.7	2.2	2.8	3.3	3.8	4.3	4.8	5.2	5.7	6.2
19.8	1.4	2.0	2.6	3.1	3.6	4.1	4.6	5.1	5.5	6.0
20.0	1.2	1.8	2.3	2.9	3.4	3.9	4.4	4.9	5.4	5.8
20.2	1.0	1.6	2.1	2.7	3.2	3.7	4.2	4.7	5.2	5.6
20.4	0.8	1.3	1.9	2.4	3.0	3.5	4.0	4.5	5.0	5.5
20.6	0.5	1.1	1.7	2.2	2.8	3.3	3.8	4.3	4.8	5.3
20.8	0.3	0.9	1.4	2.0	2.6	3.1	3.6	4.1	4.6	5.1
21.0	0.0	0.6	1.2	1.8	2.3	2.9	3.4	3.9	4.4	4.9
21.2	-0.2	0.4	1.0	1.5	2.1	2.7	3.2	3.7	4.2	4.7
21.4	-0.5	0.1	0.7	1.3	1.9	2.5	3.0	3.5	4.0	4.5
21.6	-0.8	-0.1	0.5	1.1	1.7	2.2	2.8	3.3	3.8	4.3
21.8	-1.0	-0.4	0.3	0.9	1.4	2.0	2.6	3.1	3.6	4.2
22.0	-1.3	-0.6	0.0	0.6	1.2	1.8	2.4	2.9	3.4	3.9
22.2	-1.6	-0.9	-0.3	0.4	1.0	1.6	2.1	2.7	3.2	3.8
22.4	-1.9	-1.2	-0.5	0.1	0.7	1.3	1.9	2.5	3.0	3.6
22.6	-2.1	-1.5	-0.8	-0.1	0.5	1.1	1.7	2.3	2.8	3.4
22.8	-2.5	-1.7	-1.0	-0.4	0.3	0.9	1.5	2.0	2.6	3.1
23.0	-2.8	-2.0	-1.3	-0.7	0.0	0.6	1.2	1.8	2.4	2.9
23.2	-3.0	-2.3	-1.6	-0.9	-0.3	0.4	1.0	1.6	2.2	2.7
23.4	-3.4	-2.6	-1.9	-1.2	-0.5	0.1	0.8	1.4	2.0	2.5
23.6	-3.7	-2.9	-2.2	-1.5	-0.8	-0.1	0.5	1.1	1.7	2.3
23.8	-4.0	-3.2	-2.5	-1.7	-1.0	-0.4	0.3	0.9	1.5	2.1
24.0	-4.3	-3.5	-2.8	-2.0	-1.3	-0.6	0.0	0.6	1.3	1.9
24.2	-4.7	-3.8	-3.1	-2.3	-1.6	-0.9	-0.2	0.4	1.0	1.6
24.4	-5.0	-4.2	-3.4	-2.6	-1.9	-1.2	-0.5	0.2	0.8	1.4
24.6	-5.4	-4.5	-3.7	-2.9	-2.2	-1.5	-0.8	-0.1	0.5	1.2
24.8	-5.8	-4.9	-4.0	-3.2	-2.5	-1.7	-1.0	-0.4	0.3	0.9

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
19.0	33	34	35	37	38	39	41	42	43	45
19.2	32	33	34	36	37	38	40	41	42	44
19.4	31	32	34	35	36	37	39	40	41	42
19.6	30	31	33	34	35	36	38	39	40	41
19.8	29	31	32	33	34	35	37	38	39	40
20.0	29	30	31	32	33	35	36	37	38	39
20.2	28	29	30	31	32	34	35	36	37	38
20.4	27	28	29	30	32	33	34	35	36	38
20.6	26	27	28	30	31	32	33	34	35	37
20.8	25	26	28	29	30	31	32	33	35	36
21.0	25	26	27	28	29	30	31	32	34	35
21.2	24	25	26	27	28	29	31	32	33	34
21.4	23	24	25	26	27	29	30	31	32	33
21.6	22	23	25	26	27	28	29	30	31	32
21.8	22	23	24	25	26	27	28	29	30	31
22.0	21	22	23	24	25	26	27	28	30	31
22.2	20	21	22	23	24	26	27	28	29	30
22.4	20	21	22	23	24	25	26	27	28	29
22.6	19	20	21	22	23	24	25	26	27	28
22.8	18	19	20	21	22	23	24	25	27	28
23.0	18	19	20	21	22	23	24	25	26	27
23.2	17	18	19	20	21	22	23	24	25	26
23.4	17	18	18	19	20	21	22	23	24	25
23.6	16	17	18	19	20	21	22	23	24	25
23.8	15	16	17	18	19	20	21	22	23	24
24.0	15	16	17	18	19	20	20	21	22	23
24.2	14	15	16	17	18	19	20	21	22	23
24.4	14	15	16	16	17	18	19	20	21	22
24.6	13	14	15	16	17	18	19	20	21	21
24.8	13	14	15	15	16	17	18	19	20	21

Wet Bulb 10.0 to 11.8
 Dry Bulb 25.0 to 30.0

Dew Point °C

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
25.0	-6.1	-5.2	-4.4	-3.6	-2.8	-2.0	-1.3	-0.6	0.0	0.7
25.2	-6.5	-5.6	-4.7	-3.9	-3.1	-2.3	-1.6	-0.9	-0.2	0.4
25.4	-6.9	-6.0	-5.0	-4.2	-3.4	-2.6	-1.9	-1.2	-0.5	0.2
25.6	-7.3	-6.3	-5.4	-4.5	-3.7	-2.9	-2.1	-1.4	-0.7	-0.1
25.8	-7.7	-6.7	-5.8	-4.9	-4.0	-3.2	-2.5	-1.7	-1.0	-0.3
26.0	-8.1	-7.1	-6.2	-5.2	-4.4	-3.5	-2.8	-2.0	-1.3	-0.6
26.2	-8.6	-7.5	-6.5	-5.6	-4.7	-3.9	-3.0	-2.3	-1.6	-0.9
26.4	-9.0	-8.0	-6.9	-6.0	-5.0	-4.2	-3.4	-2.6	-1.8	-1.1
26.6	-9.5	-8.4	-7.3	-6.3	-5.4	-4.5	-3.7	-2.9	-2.1	-1.4
26.8	-10.0	-8.8	-7.7	-6.7	-5.8	-4.9	-4.0	-3.2	-2.4	-1.7
27.0	-10.5	-9.3	-8.2	-7.1	-6.2	-5.2	-4.3	-3.5	-2.7	-1.9
27.2	-11.0	-9.8	-8.6	-7.5	-6.5	-5.6	-4.6	-3.8	-3.0	-2.2
27.4	-11.6	-10.3	-9.1	-8.0	-6.9	-6.0	-5.0	-4.2	-3.3	-2.5
27.6	-12.1	-10.8	-9.5	-8.4	-7.3	-6.3	-5.4	-4.5	-3.6	-2.8
27.8	-12.7	-11.3	-10.0	-8.9	-7.8	-6.7	-5.8	-4.8	-4.0	-3.1
28.0	-13.3	-11.9	-10.6	-9.3	-8.2	-7.1	-6.1	-5.2	-4.3	-3.5
28.2	-14.0	-12.5	-11.1	-9.8	-8.6	-7.5	-6.5	-5.6	-4.6	-3.8
28.4	-14.6	-13.1	-11.6	-10.3	-9.1	-8.0	-6.9	-5.9	-5.0	-4.1
28.6	-15.3	-13.7	-12.2	-10.8	-9.5	-8.4	-7.3	-6.3	-5.3	-4.4
28.8	-16.1	-14.3	-12.3	-11.4	-10.1	-8.9	-7.7	-6.7	-5.7	-4.8
29.0	-16.9	-15.0	-13.4	-11.9	-10.6	-9.3	-8.1	-7.1	-6.1	-5.1
29.2	-17.7	-15.8	-14.0	-12.5	-11.1	-9.8	-8.6	-7.5	-6.5	-5.5
29.4	-18.6	-16.6	-14.7	-13.1	-11.6	-10.3	-9.4	-7.9	-6.8	-5.9
29.6	-19.6	-17.4	-15.4	-13.7	-12.2	-10.8	-9.5	-8.3	-7.2	-6.3
29.8	-20.7	-18.2	-16.2	-14.4	-12.8	-11.4	-10.0	-8.8	-7.7	-6.6
30.0	-21.8	-19.1	-17.0	-15.1	-13.4	-11.9	-10.5	-9.3	-8.1	-7.0

Dry Bulb °C	Wet Bulb °C									
	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8
25.0	12	13	14	15	16	17	18	18	19	20
25.2	12	13	13	14	15	16	17	18	19	20
25.4	11	12	13	14	15	16	16	17	18	19
25.6	11	12	12	13	14	15	16	17	18	19
25.8	10	11	12	13	14	15	15	16	17	18
26.0	10	11	11	12	13	14	15	16	17	17
26.2	9	10	11	12	13	13	14	15	16	17
26.4	9	10	11	11	12	13	14	15	16	16
26.6	9	9	10	11	12	13	13	14	15	16
26.8	8	9	10	10	11	12	13	14	15	15
27.0	8	8	9	10	11	12	12	13	14	15
27.2	7	8	9	10	10	11	12	13	14	14
27.4	7	8	8	9	10	11	12	12	13	14
27.6	7	7	8	9	10	10	11	12	13	13
27.8	6	7	8	8	9	10	11	11	12	13
28.0	6	7	7	8	9	9	10	11	12	13
28.2	5	6	7	8	8	9	10	11	11	12
28.4	5	5	7	7	8	9	9	10	11	12
28.6	5	5	6	7	8	8	9	10	11	11
28.8	4	5	6	6	7	8	9	9	10	11
29.0	4	5	5	6	7	8	8	9	10	10
29.2	4	4	5	6	6	7	8	9	9	10
29.4	3	4	5	5	6	7	8	8	9	10
29.6	3	4	4	5	6	6	7	8	9	9
29.8	3	3	4	5	5	6	7	7	8	9
30.0	3	3	4	4	5	6	6	7	8	9

Wet Bulb 12.0 to 13.8
Dry Bulb 12.0 to 17.8

Dew Point °C										
Dry Bulb °C	Wet Bulb °C									
	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8
12.0	12.0									
12.2	11.9	12.2								
12.4	11.8	12.1	12.4							
12.6	11.6	12.0	12.3	12.6						
12.8	11.5	11.8	12.2	12.5	12.8					
13.0	11.4	11.7	12.0	12.4	12.7	13.0				
13.2	11.3	11.6	11.9	12.2	12.6	12.9	13.2			
13.4	11.1	11.5	11.8	12.1	12.5	12.8	13.1	13.4		
13.6	11.0	11.3	11.7	12.0	12.3	12.7	13.0	13.3	13.6	
13.8	10.9	11.2	11.5	11.9	12.2	12.5	12.9	13.2	13.5	13.8
14.0	10.7	11.1	11.4	11.8	12.1	12.4	12.7	13.1	13.4	13.7
14.2	10.6	11.0	11.3	11.6	12.0	12.3	12.6	12.9	13.3	13.6
14.4	10.5	10.8	11.2	11.5	11.8	12.2	12.5	12.8	13.2	13.5
14.6	10.3	10.7	11.0	11.4	11.7	12.1	12.4	12.7	13.0	13.4
14.8	10.2	10.6	10.9	11.3	11.6	11.9	12.3	12.6	12.9	13.2
15.0	10.1	10.4	10.8	11.1	11.5	11.8	12.1	12.5	12.8	13.1
15.2	9.9	10.3	10.7	11.0	11.3	11.7	12.0	12.4	12.7	13.0
15.4	9.8	10.2	10.5	10.9	11.2	11.6	11.9	12.2	12.6	12.9
15.6	9.7	10.0	10.4	10.7	11.1	11.4	11.8	12.1	12.5	12.8
15.8	9.5	9.9	10.3	10.6	11.0	11.3	11.7	12.0	12.3	12.7
16.0	9.4	9.8	10.1	10.5	10.8	11.2	11.5	11.9	12.2	12.5
16.2	9.2	9.6	10.0	10.3	10.7	11.1	11.4	11.8	12.1	12.4
16.4	9.1	9.5	9.8	10.2	10.6	10.9	11.3	11.6	12.0	12.3
16.6	8.9	9.3	9.7	10.1	10.4	10.8	11.1	11.5	11.9	12.2
16.8	8.8	9.2	9.6	9.9	10.3	10.7	11.0	11.4	11.7	12.1
17.0	8.7	9.0	9.4	9.8	10.2	10.5	10.9	11.3	11.6	11.9
17.2	8.5	8.9	9.3	9.7	10.0	10.4	10.8	11.1	11.5	11.8
17.4	8.3	8.7	9.1	9.5	9.9	10.3	10.6	11.0	11.4	11.7
17.6	8.2	8.6	9.0	9.4	9.8	10.1	10.5	10.9	11.2	11.6
17.8	8.1	8.5	8.9	9.2	9.6	10.0	10.4	10.7	11.1	11.5

Relative Humidity (%) (700 mb.)										
Dry Bulb °C	Wet Bulb °C									
	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8
12.0	100									
12.2	98	100								
12.4	96	98	100							
12.6	94	96	98	100						
12.8	92	94	96	98	100					
13.0	90	92	94	96	98	100				
13.2	88	90	92	94	96	98	100			
13.4	86	88	90	92	94	96	98	100		
13.6	84	86	88	90	92	94	96	98	100	
13.8	82	84	86	88	90	92	94	96	98	100
14.0	81	83	84	86	88	90	92	94	96	98
14.2	79	81	83	85	86	88	90	92	94	96
14.4	77	79	81	83	85	86	88	90	92	94
14.6	76	77	79	81	83	85	87	88	90	92
14.8	74	76	77	79	81	83	85	87	88	90
15.0	72	74	76	78	79	81	83	85	87	89
15.2	71	73	74	76	78	80	81	83	85	87
15.4	69	71	73	74	76	78	80	81	83	85
15.6	68	69	71	73	75	76	78	80	82	83
15.8	66	68	70	71	73	75	76	78	80	82
16.0	65	66	68	70	71	73	75	76	78	80
16.2	63	65	67	68	70	72	73	75	77	78
16.4	62	64	65	67	68	70	72	73	75	77
16.6	61	62	64	65	67	69	70	72	74	75
16.8	59	61	62	64	65	67	69	70	72	74
17.0	58	59	61	63	64	66	67	69	70	72
17.2	57	58	60	61	63	64	66	67	69	71
17.4	55	57	58	60	61	63	64	66	68	69
17.6	54	56	57	59	60	62	63	65	66	68
17.8	53	54	56	57	59	60	62	63	65	66

Wet Bulb 12.0 to 13.8
Dry Bulb 18.0 to 23.8

Dew Point °C										
Dry Bulb °C	Wet Bulb °C									
	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8
18.0	7.9	8.3	8.7	9.1	9.5	9.9	10.2	10.6	11.0	11.3
18.2	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.8	11.2
18.4	7.6	8.0	8.4	8.8	9.2	9.6	10.0	10.3	10.7	11.1
18.6	7.4	7.8	8.3	8.7	9.0	9.4	9.8	10.2	10.6	10.9
18.8	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.4	10.8
19.0	7.1	7.5	7.9	8.3	8.8	9.1	9.5	9.9	10.3	10.7
19.2	6.9	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.5
19.4	6.8	7.2	7.6	8.1	8.5	8.9	9.3	9.7	10.0	10.4
19.6	6.6	7.0	7.5	7.9	8.3	8.7	9.1	9.5	9.9	10.3
19.8	6.4	6.9	7.3	7.7	8.2	8.6	9.0	9.4	9.8	10.1
20.0	6.3	6.7	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0
20.2	6.1	6.6	7.0	7.4	7.8	8.3	8.7	9.1	9.5	9.9
20.4	5.9	6.4	6.8	7.3	7.7	8.1	8.5	8.9	9.3	9.7
20.6	5.7	6.2	6.7	7.1	7.5	8.0	8.4	8.8	9.2	9.6
20.8	5.6	6.0	6.5	6.9	7.4	7.8	8.2	8.6	9.0	9.5
21.0	5.4	5.9	6.3	6.8	7.2	7.7	8.1	8.5	8.9	9.3
21.2	5.2	5.7	6.1	6.6	7.1	7.5	7.9	8.3	8.8	9.2
21.4	5.0	5.5	6.0	6.4	6.9	7.3	7.8	8.2	8.6	9.0
21.6	4.8	5.3	5.8	6.3	6.7	7.2	7.6	8.0	8.5	8.9
21.8	4.7	5.1	5.6	6.1	6.6	7.0	7.4	7.9	8.3	8.7
22.0	4.5	5.0	5.4	5.9	6.4	6.8	7.3	7.7	8.1	8.6
22.2	4.3	4.8	5.3	5.7	6.2	6.7	7.1	7.6	8.0	8.4
22.4	4.1	4.6	5.1	5.6	6.0	6.5	7.0	7.4	7.8	8.3
22.6	3.9	4.4	4.9	5.4	5.9	6.3	6.8	7.2	7.7	8.1
22.8	3.7	4.2	4.7	5.2	5.7	6.2	6.6	7.1	7.5	8.0
23.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	6.9	7.4	7.8
23.2	3.3	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.2	7.7
23.4	3.1	3.6	4.1	4.7	5.1	5.6	6.1	6.6	7.1	7.5
23.6	2.9	3.4	3.9	4.4	5.0	5.5	5.9	6.4	6.9	7.3
23.8	2.7	3.2	3.7	4.3	4.8	5.3	5.8	6.3	6.7	7.2

Relative Humidity (%)										
(700 mb.)										
Dry Bulb °C	Wet Bulb °C									
	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8
18.0	52	53	54	56	57	59	60	62	63	65
18.2	50	52	53	55	56	58	59	61	62	64
18.4	49	51	52	54	55	56	58	59	61	62
18.6	48	50	51	52	54	55	57	58	60	61
18.8	47	48	50	51	53	54	55	57	58	60
19.0	46	47	49	50	51	53	54	56	57	58
19.2	45	46	48	49	50	52	53	54	56	57
19.4	44	45	46	48	49	50	52	53	55	56
19.6	43	44	45	47	48	49	51	52	53	55
19.8	42	43	44	46	47	48	50	51	52	54
20.0	41	42	43	45	46	47	49	50	51	53
20.2	40	41	42	44	45	46	47	49	50	51
20.4	39	40	41	43	44	45	46	48	49	50
20.6	38	39	40	42	43	44	45	47	48	49
20.8	37	38	39	41	42	43	44	46	47	48
21.0	36	37	38	40	41	42	43	45	46	47
21.2	35	36	38	39	40	41	42	44	45	46
21.4	34	35	37	38	39	40	41	43	44	45
21.6	33	35	36	37	38	39	40	42	43	44
21.8	33	34	35	36	37	38	40	41	42	43
22.0	32	33	34	35	36	37	39	40	41	42
22.2	31	32	33	34	35	37	38	39	40	41
22.4	30	31	32	33	35	36	37	38	39	40
22.6	29	30	32	33	34	35	36	37	38	39
22.8	29	30	31	32	33	34	35	36	37	39
23.0	28	29	30	31	32	33	34	35	37	38
23.2	27	28	29	30	31	32	34	35	36	37
23.4	26	27	29	30	31	32	33	34	35	36
23.6	26	27	28	29	30	31	32	33	34	35
23.8	25	26	27	28	29	30	31	32	33	34

Wet Bulb 12.0 to 13.8
Dry Bulb 24.0 to 30.0

Dew Point °C

Dry Bulb °C	Wet Bulb °C									
	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8
24.0	2.4	3.0	3.5	4.1	4.6	5.1	5.6	6.1	6.6	7.0
24.2	2.2	2.8	3.3	3.9	4.4	4.9	5.4	5.9	6.4	6.8
24.4	2.0	2.6	3.1	3.7	4.2	4.7	5.2	5.7	6.2	6.7
24.6	1.8	2.3	2.9	3.5	4.0	4.5	5.1	5.6	6.0	6.5
24.8	1.5	2.1	2.7	3.3	3.8	4.3	4.9	5.4	5.9	6.3
25.0	1.3	1.9	2.5	3.1	3.6	4.2	4.7	5.2	5.7	6.2
25.2	1.1	1.7	2.3	2.8	3.4	3.9	4.5	5.0	5.5	6.0
25.4	0.8	1.4	2.1	2.6	3.2	3.8	4.3	4.8	5.3	5.8
25.6	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.6	5.1	5.6
25.8	0.3	1.0	1.6	2.2	2.8	3.4	3.9	4.4	5.0	5.5
26.0	0.1	0.8	1.4	2.0	2.6	3.1	3.7	4.2	4.8	5.3
26.2	-0.2	0.5	1.1	1.8	2.4	2.9	3.5	4.1	4.6	5.1
26.4	-0.4	0.3	0.9	1.5	2.1	2.7	3.3	3.8	4.4	4.9
26.6	-0.7	0.0	0.7	1.3	1.9	2.5	3.1	3.6	4.2	4.7
26.8	-0.9	-0.2	0.4	1.1	1.7	2.3	2.9	3.4	4.0	4.5
27.0	-1.2	-0.5	0.2	0.8	1.5	2.1	2.7	3.2	3.8	4.3
27.2	-1.5	-0.8	-0.1	0.6	1.2	1.9	2.4	3.0	3.6	4.2
27.4	-1.8	-1.0	-0.3	0.3	1.0	1.6	2.2	2.8	3.4	4.0
27.6	-2.1	-1.3	-0.6	0.1	0.8	1.4	2.0	2.6	3.2	3.8
27.8	-2.4	-1.6	-0.9	-0.2	0.5	1.2	1.8	2.4	3.0	3.6
28.0	-2.6	-1.9	-1.1	-0.4	0.3	0.9	1.5	2.2	2.8	3.4
28.2	-3.0	-2.2	-1.4	-0.7	0.0	0.7	1.3	2.0	2.6	3.2
28.4	-3.3	-2.5	-1.7	-0.9	-0.2	0.4	1.1	1.7	2.3	2.9
28.6	-3.6	-2.8	-2.0	-1.2	-0.5	0.2	0.9	1.5	2.1	2.7
28.8	-3.9	-3.1	-2.3	-1.5	-0.8	-0.1	0.6	1.3	1.9	2.5
29.0	-4.3	-3.4	-2.6	-1.8	-1.0	-0.3	0.4	1.0	1.7	2.3
29.2	-4.6	-3.7	-2.9	-2.1	-1.3	-0.6	0.1	0.8	1.4	2.1
29.4	-4.9	-4.0	-3.2	-2.4	-1.6	-0.9	-0.1	0.5	1.2	1.9
29.6	-5.3	-4.4	-3.5	-2.7	-1.9	-1.1	-0.4	0.3	1.0	1.6
29.8	-5.6	-4.7	-3.8	-3.0	-2.2	-1.4	-0.7	0.0	0.7	1.4
30.0	-6.0	-5.0	-4.1	-3.3	-2.5	-1.7	-0.9	-0.2	0.5	1.2

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C									
	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8
24.0	24	25	26	27	28	29	30	32	33	34
24.2	24	25	26	27	28	29	30	31	32	33
24.4	23	24	25	26	27	28	29	30	31	32
24.6	22	23	24	25	26	27	28	29	30	31
24.8	22	23	24	25	26	27	28	29	30	31
25.0	21	22	23	24	25	26	27	28	29	30
25.2	21	22	22	23	24	25	26	27	28	29
25.4	20	21	22	23	24	25	26	27	28	28
25.6	19	20	21	22	23	24	25	26	27	28
25.8	19	20	21	22	22	23	24	25	26	27
26.0	18	19	20	21	22	23	24	25	26	26
26.2	18	19	19	20	21	22	23	24	25	26
26.4	17	18	19	20	21	22	22	23	24	25
26.6	17	18	18	19	20	21	22	23	24	25
26.8	16	17	18	19	20	20	21	22	23	24
27.0	16	16	17	18	19	20	21	22	22	23
27.2	15	16	17	18	18	19	20	21	22	23
27.4	15	16	16	17	18	19	20	20	21	22
27.6	14	15	16	17	17	18	19	20	21	22
27.8	14	15	15	16	17	18	19	19	20	21
28.0	13	14	15	16	16	17	18	19	20	21
28.2	13	14	14	15	16	17	18	18	19	20
28.4	12	13	14	15	16	16	17	18	19	19
28.6	12	13	13	14	15	16	17	17	18	19
28.8	12	12	13	14	15	15	16	17	18	18
29.0	11	12	13	13	14	15	16	16	17	18
29.2	11	11	12	13	14	14	15	16	17	17
29.4	10	11	12	13	13	14	15	15	16	17
29.6	10	11	11	12	13	14	14	15	16	17
29.8	10	10	11	12	12	13	14	15	15	16
30.0	9	10	11	11	12	13	13	14	15	16

Wet Bulb 14.0 to 16.0
Dry Bulb 14.0 to 19.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C										
	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0
14.0	14.0										
14.2	13.9	14.2									
14.4	13.8	14.1	14.4								
14.6	13.7	14.0	14.3	14.6							
14.8	13.6	13.9	14.2	14.5	14.8						
15.0	13.4	13.8	14.1	14.4	14.7	15.0					
15.2	13.3	13.7	14.0	14.3	14.6	14.9	15.2				
15.4	13.2	13.5	13.9	14.2	14.5	14.8	15.1	15.4			
15.6	13.1	13.4	13.7	14.1	14.4	14.7	15.0	15.3	15.6		
15.8	13.0	13.3	13.6	14.0	14.3	14.6	14.9	15.2	15.5	15.8	
16.0	12.9	13.2	13.5	13.8	14.2	14.5	14.8	15.1	15.4	15.7	16.0
16.2	12.8	13.1	13.4	13.7	14.1	14.4	14.7	15.0	15.3	15.6	15.9
16.4	12.6	13.0	13.3	13.6	13.9	14.3	14.6	14.9	15.2	15.5	15.8
16.6	12.5	12.9	13.2	13.5	13.8	14.2	14.5	14.8	15.1	15.4	15.7
16.8	12.4	12.7	13.1	13.4	13.7	14.1	14.4	14.7	15.0	15.3	15.6
17.0	12.3	12.6	13.0	13.3	13.6	13.9	14.3	14.6	14.9	15.2	15.5
17.2	12.2	12.5	12.8	13.2	13.5	13.8	14.1	14.5	14.8	15.1	15.4
17.4	12.0	12.4	12.7	13.1	13.4	13.7	14.0	14.4	14.7	15.0	15.3
17.6	11.9	12.3	12.6	12.9	13.3	13.6	13.9	14.3	14.6	14.9	15.2
17.8	11.8	12.2	12.5	12.8	13.2	13.5	13.8	14.1	14.5	14.8	15.1
18.0	11.7	12.0	12.4	12.7	13.1	13.4	13.7	14.0	14.4	14.7	15.0
18.2	11.6	11.9	12.3	12.6	12.9	13.3	13.6	13.9	14.3	14.6	14.9
18.4	11.4	11.8	12.1	12.5	12.8	13.2	13.5	13.8	14.1	14.5	14.8
18.6	11.3	11.7	12.0	12.4	12.7	13.0	13.4	13.7	14.0	14.4	14.7
18.8	11.2	11.5	11.9	12.2	12.6	12.9	13.3	13.6	13.9	14.3	14.6
19.0	11.0	11.4	11.8	12.1	12.5	12.8	13.2	13.5	13.8	14.1	14.5
19.2	10.9	11.3	11.6	12.0	12.3	12.7	13.0	13.4	13.7	14.0	14.4
19.4	10.8	11.1	11.5	11.9	12.2	12.6	12.9	13.3	13.6	13.9	14.3
19.6	10.7	11.0	11.4	11.8	12.1	12.5	12.8	13.1	13.5	13.8	14.2
19.8	10.5	10.9	11.3	11.6	12.0	12.3	12.7	13.0	13.4	13.7	14.0

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C										
	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0
14.0	100										
14.2	98	100									
14.4	96	98	100								
14.6	94	96	98	100							
14.8	92	94	96	98	100						
15.0	90	92	94	96	98	100					
15.2	89	90	92	94	96	98	100				
15.4	87	89	91	92	94	96	98	100			
15.6	85	87	89	91	92	94	96	98	100		
15.8	83	85	87	89	91	92	94	96	98	100	
16.0	82	83	85	87	89	91	93	94	96	98	100
16.2	80	82	84	85	87	89	91	93	94	96	98
16.4	78	80	82	84	85	87	89	91	93	94	96
16.6	77	79	80	82	84	85	87	89	91	93	94
16.8	75	77	79	80	82	84	86	87	89	91	93
17.0	74	75	77	79	80	82	84	86	87	89	91
17.2	72	74	76	77	79	81	82	84	86	87	89
17.4	71	72	74	76	77	79	81	82	84	86	87
17.6	69	71	73	74	76	77	79	81	82	84	86
17.8	68	70	71	73	74	76	78	79	81	83	84
18.0	67	68	70	71	73	74	76	78	79	81	83
18.2	65	67	68	70	71	73	75	76	78	79	81
18.4	64	65	67	68	70	71	73	75	76	78	80
18.6	62	64	65	67	69	70	72	73	75	76	78
18.8	61	63	64	66	67	69	70	72	73	75	76
19.0	60	61	63	64	66	67	69	70	72	73	75
19.2	59	60	62	63	64	66	67	69	70	72	74
19.4	57	59	60	62	63	65	66	68	69	71	72
19.6	56	58	59	60	62	63	65	66	68	69	71
19.8	55	56	58	59	61	62	64	65	66	68	69

Wet Bulb 14.0 to 16.0
 Dry Bulb 20.0 to 25.8

Dew Point °C

Dry Bulb °C	Wet Bulb °C										
	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0
20.0	10.4	10.8	11.1	11.5	11.9	12.2	12.6	12.9	13.3	13.6	13.9
20.2	10.3	10.6	11.0	11.4	11.7	12.1	12.5	12.8	13.1	13.5	13.8
20.4	10.1	10.5	10.9	11.3	11.6	12.0	12.3	12.7	13.0	13.4	13.7
20.6	10.0	10.4	10.7	11.1	11.5	11.9	12.2	12.6	12.9	13.3	13.6
20.8	9.8	10.2	10.6	11.0	11.4	11.7	12.1	12.5	12.8	13.1	13.5
21.0	9.7	10.1	10.5	10.9	11.2	11.6	12.0	12.3	12.7	13.0	13.4
21.2	9.6	10.0	10.3	10.7	11.1	11.5	11.8	12.2	12.6	12.9	13.3
21.4	9.4	9.8	10.2	10.6	11.0	11.4	11.7	12.1	12.4	12.8	13.2
21.6	9.3	9.7	10.1	10.5	10.9	11.2	11.6	12.0	12.3	12.7	13.0
21.8	9.1	9.5	9.9	10.3	10.7	11.1	11.5	11.8	12.2	12.6	12.9
22.0	9.0	9.4	9.8	10.2	10.6	11.0	11.3	11.7	12.1	12.5	12.8
22.2	8.8	9.3	9.7	10.1	10.5	10.8	11.2	11.6	12.0	12.3	12.7
22.4	8.7	9.1	9.5	9.9	10.3	10.7	11.1	11.5	11.8	12.2	12.6
22.6	8.5	9.0	9.4	9.8	10.2	10.6	11.0	11.3	11.7	12.1	12.5
22.8	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0	12.3
23.0	8.2	8.7	9.1	9.5	9.9	10.3	10.7	11.1	11.5	11.8	12.2
23.2	8.1	8.5	8.9	9.4	9.8	10.2	10.6	11.0	11.3	11.7	12.1
23.4	7.9	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0
23.6	7.8	8.2	8.7	9.1	9.5	9.9	10.3	10.7	11.1	11.5	11.8
23.8	7.6	8.1	8.5	8.9	9.4	9.8	10.2	10.6	11.0	11.3	11.7
24.0	7.5	7.9	8.3	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6
24.2	7.3	7.8	8.2	8.6	9.1	9.5	9.9	10.3	10.7	11.1	11.5
24.4	7.1	7.6	8.1	8.5	8.9	9.3	9.8	10.2	10.6	11.0	11.3
24.6	7.0	7.4	7.9	8.3	8.8	9.2	9.6	10.0	10.4	10.8	11.2
24.8	6.8	7.3	7.7	8.2	8.6	9.0	9.5	9.9	10.3	10.7	11.1
25.0	6.7	7.1	7.6	8.0	8.5	8.9	9.3	9.7	10.2	10.6	11.0
25.2	6.5	7.0	7.4	7.9	8.3	8.7	9.2	9.6	10.0	10.4	10.8
25.4	6.3	6.8	7.3	7.7	8.2	8.6	9.0	9.5	9.9	10.3	10.7
25.6	6.1	6.6	7.1	7.6	8.0	8.5	8.9	9.3	9.7	10.2	10.6
25.8	6.0	6.4	6.9	7.4	7.9	8.3	8.7	9.2	9.6	10.0	10.4

Relative Humidity (%)

(700 mb.)

Dry Bulb °C	Wet Bulb °C										
	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0
20.0	54	55	57	58	59	61	62	64	65	67	68
20.2	53	54	55	57	58	60	61	62	64	65	67
20.4	52	53	54	56	57	58	60	61	63	64	65
20.6	51	52	53	55	56	57	59	60	61	63	64
20.8	49	51	52	53	55	56	57	59	60	62	63
21.0	48	50	51	52	54	55	56	58	59	60	62
21.2	47	49	50	51	52	54	55	56	58	59	61
21.4	46	48	49	50	51	53	54	55	57	58	59
21.6	45	47	48	49	50	52	53	54	56	57	58
21.8	44	46	47	48	49	51	52	53	54	56	57
22.0	43	45	46	47	48	50	51	52	53	55	56
22.2	42	44	45	46	47	49	50	51	52	54	55
22.4	41	43	44	45	46	48	49	50	51	52	54
22.6	41	42	43	44	45	47	48	49	50	51	53
22.8	40	41	42	43	44	46	47	48	49	50	52
23.0	39	40	41	42	43	45	46	47	48	49	51
23.2	38	39	40	41	42	44	45	46	47	48	50
23.4	37	38	39	40	42	43	44	45	46	47	49
23.6	36	37	38	40	41	42	43	44	45	46	48
23.8	35	37	38	39	40	41	42	43	44	46	47
24.0	35	36	37	38	39	40	41	42	43	45	46
24.2	34	35	36	37	38	39	40	41	43	44	45
24.4	33	34	35	36	37	38	40	41	42	43	44
24.6	32	33	34	35	37	38	39	40	41	42	43
24.8	32	33	34	35	36	37	38	39	40	41	42
25.0	31	32	33	34	35	36	37	38	39	40	41
25.2	30	31	32	33	34	35	36	37	38	39	40
25.4	29	30	31	32	33	34	35	37	38	39	40
25.6	29	30	31	32	33	34	35	36	37	38	39
25.8	28	29	30	31	32	33	34	35	36	37	38

Wet Bulb 14.0 to 16.0
Dry Bulb 26.0 to 30.0

Dew Point °C

Dry Bulb °C	Wet Bulb °C										
	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0
26.0	5.8	6.3	6.8	7.2	7.7	8.1	8.6	9.0	9.5	9.9	10.3
26.2	5.6	6.1	6.6	7.1	7.5	8.0	8.4	8.9	9.3	9.7	10.2
26.4	5.4	5.9	6.4	6.9	7.4	7.8	8.3	8.7	9.2	9.6	10.0
26.6	5.2	5.8	6.3	6.7	7.2	7.7	8.1	8.6	9.0	9.5	9.9
26.8	5.1	5.6	6.1	6.6	7.1	7.5	8.0	8.4	8.9	9.3	9.7
27.0	4.9	5.4	5.9	6.4	6.9	7.4	7.8	8.3	8.7	9.2	9.6
27.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.1	8.6	9.0	9.5
27.4	4.5	5.0	5.6	6.1	6.6	7.0	7.5	8.0	8.4	8.9	9.3
27.6	4.3	4.9	5.4	5.9	6.4	6.9	7.4	7.8	8.3	8.7	9.2
27.8	4.1	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.1	8.6	9.0
28.0	3.9	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.4	8.9
28.2	3.7	4.3	4.8	5.4	5.9	6.4	6.9	7.3	7.8	8.3	8.7
28.4	3.5	4.1	4.6	5.2	5.7	6.2	6.7	7.2	7.7	8.1	8.6
28.6	3.3	3.9	4.4	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.4
28.8	3.1	3.7	4.2	4.8	5.3	5.9	6.4	6.8	7.3	7.8	8.3
29.0	2.9	3.5	4.1	4.6	5.1	5.7	6.2	6.7	7.2	7.7	8.1
29.2	2.7	3.3	3.9	4.4	5.0	5.5	6.0	6.5	7.0	7.5	8.0
29.4	2.5	3.1	3.7	4.2	4.8	5.3	5.8	6.4	6.8	7.3	7.8
29.6	2.2	2.9	3.4	4.0	4.6	5.1	5.7	6.2	6.7	7.2	7.7
29.8	2.0	2.7	3.2	3.8	4.4	5.0	5.5	6.0	6.5	7.0	7.5
30.0	1.8	2.4	3.0	3.6	4.2	4.8	5.3	5.8	6.3	6.8	7.3

Relative Humidity (%) (700 mb.)

Dry Bulb °C	Wet Bulb °C										
	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0
26.0	27	28	29	30	31	32	33	34	35	36	37
26.2	27	28	29	30	31	32	32	33	34	35	36
26.4	26	27	28	29	30	31	32	33	34	35	36
26.6	25	26	27	28	29	30	31	32	33	34	35
26.8	25	26	27	28	29	29	30	31	32	33	34
27.0	24	25	26	27	28	29	30	31	32	33	34
27.2	24	25	25	26	27	28	29	30	31	32	33
27.4	23	24	25	26	27	28	28	29	30	31	32
27.6	23	23	24	25	26	27	28	29	30	31	31
27.8	22	23	24	25	25	26	27	28	29	30	31
28.0	21	22	23	24	25	26	27	27	28	29	30
28.2	21	22	23	23	24	25	26	27	28	29	29
28.4	20	21	22	23	24	25	25	26	27	28	29
28.6	20	21	21	22	23	24	25	26	26	27	28
28.8	19	20	21	22	23	23	24	25	26	27	28
29.0	19	20	20	21	22	23	24	24	25	26	27
29.2	18	19	20	21	21	22	23	24	25	26	26
29.4	18	19	19	20	21	22	23	23	24	25	26
29.6	17	18	19	20	20	21	22	23	24	24	25
29.8	17	18	18	19	20	21	22	22	23	24	25
30.0	16	17	18	19	19	20	21	22	23	23	24

SATURATION VAPOUR PRESSURE

Appendix

The following table of "Saturation Vapour Pressure" covering the range +50°C to -60°C is issued as an Appendix to the "Hygrometric Tables" to facilitate the calculation of the pressure of water vapour present in the air. For the range +50°C to 0°C the table gives the saturation vapour pressure over a plane surface of pure liquid water in millibars. For temperatures below 0°C the table gives the saturation vapour pressure over a plane surface of pure ice. The actual vapour pressure of water in the air is equal to the saturation vapour pressure at its dew point temperature.

°C	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	6.11	6.15	6.20	6.24	6.29	6.33	6.38	6.43	6.47	6.52
1	6.57	6.61	6.66	6.71	6.76	6.81	6.86	6.90	6.95	7.00
2	7.05	7.11	7.16	7.21	7.26	7.31	7.36	7.42	7.47	7.52
3	7.58	7.63	7.68	7.74	7.79	7.85	7.90	7.96	8.02	8.07
4	8.13	8.19	8.24	8.30	8.36	8.42	8.48	8.54	8.60	8.66
5	8.72	8.78	8.84	8.90	8.97	9.03	9.09	9.15	9.22	9.28
6	9.35	9.41	9.48	9.54	9.61	9.67	9.74	9.81	9.88	9.94
7	10.01	10.08	10.15	10.22	10.29	10.36	10.43	10.51	10.58	10.65
8	10.72	10.79	10.87	10.94	11.02	11.09	11.17	11.24	11.32	11.40
9	11.47	11.55	11.63	11.71	11.79	11.87	11.95	12.03	12.11	12.20
10	12.27	12.35	12.44	12.52	12.61	12.69	12.77	12.86	12.95	13.03
11	13.12	13.21	13.29	13.38	13.47	13.56	13.65	13.74	13.83	13.93
12	14.02	14.11	14.20	14.30	14.39	14.49	14.58	14.68	14.77	14.87
13	14.97	15.07	15.17	15.27	15.37	15.47	15.57	15.67	15.77	15.87
14	15.98	16.08	16.19	16.29	16.40	16.50	16.61	16.72	16.83	16.93
15	17.04	17.15	17.26	17.38	17.49	17.60	17.71	17.83	17.94	18.06
16	18.17	18.29	18.41	18.52	18.64	18.76	18.88	19.00	19.12	19.25
17	19.37	19.49	19.61	19.74	19.86	19.99	20.12	20.24	20.37	20.50
18	20.63	20.76	20.89	21.02	21.15	21.29	21.42	21.56	21.69	21.83
19	21.96	22.10	22.24	22.38	22.52	22.66	22.80	22.94	23.09	23.23
20	23.37	23.52	23.66	23.81	23.96	24.11	24.26	24.41	24.56	24.71
21	24.86	25.01	25.17	25.32	25.48	25.63	25.79	25.95	26.11	26.27
22	26.43	26.59	26.75	26.92	27.08	27.25	27.41	27.58	27.75	27.92
23	28.09	28.26	28.43	28.60	28.77	28.95	29.12	29.30	29.47	29.65
24	29.83	30.01	30.19	30.37	30.55	30.74	30.92	31.11	31.29	31.48
25	31.67	31.86	32.05	32.24	32.43	32.63	32.82	33.02	33.21	33.41
26	33.61	33.81	34.01	34.21	34.41	34.61	34.82	35.03	35.23	35.44
27	35.65	35.86	36.07	36.28	36.49	36.71	36.92	37.14	37.36	37.58
28	37.80	38.02	38.24	38.46	38.69	38.91	39.14	39.37	39.59	39.82
29	40.05	40.29	40.52	40.75	40.99	41.23	41.47	41.71	41.95	42.19
30	42.43	42.67	42.92	43.17	43.41	43.66	43.91	44.17	44.42	44.67
31	44.93	45.18	45.44	45.70	45.96	46.22	46.49	46.75	47.02	47.28
32	47.55	47.82	48.09	48.36	48.64	48.91	49.19	49.47	49.75	50.03
33	50.31	50.59	50.87	51.16	51.45	51.74	52.03	52.32	52.61	52.90
34	53.20	53.50	53.80	54.10	54.40	54.70	55.00	55.31	55.62	55.93
35	56.24	56.55	56.86	57.18	57.49	57.81	58.13	58.45	58.77	59.10
36	59.42	59.75	60.08	60.41	60.74	61.07	61.41	61.74	62.08	62.42
37	62.76	63.11	63.45	63.80	64.14	64.49	64.84	65.20	65.55	65.91
38	66.26	66.62	66.99	67.35	67.71	68.08	68.45	68.81	69.19	69.56
39	69.93	70.31	70.69	71.07	71.45	71.83	72.22	72.61	72.99	73.39
40	73.78	74.17	74.57	74.97	75.37	75.77	76.17	76.57	76.98	77.39
41	77.80	78.21	78.63	79.05	79.47	79.89	80.31	80.73	81.16	81.59
42	82.01	82.45	82.88	83.32	83.75	84.19	84.64	85.08	85.53	85.97
43	86.42	86.87	87.33	87.79	88.24	88.70	89.17	89.63	90.09	90.56
44	91.03	91.51	91.98	92.46	92.94	93.42	93.90	94.39	94.87	95.36
45	95.85	96.35	96.85	97.34	97.84	98.35	98.85	99.36	99.87	100.38
46	100.89	101.41	101.93	102.45	102.97	103.50	104.03	104.56	105.09	105.62
47	106.89	106.70	107.24	107.78	108.33	108.88	109.43	109.98	110.54	111.10
48	111.66	112.22	112.79	113.36	113.93	114.50	115.07	115.65	116.23	116.81
49	117.40	117.99	118.58	119.17	119.77	120.37	120.97	121.57	122.18	122.79
50	123.40	124.01	124.63	125.25	125.87	126.49	127.12	127.75	128.38	129.01

°C	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
-60	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-59	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-58	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-57	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
-56	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-55	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-54	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-53	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
-52	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
-51	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
-50	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
-49	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
-48	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
-47	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
-46	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
-45	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06
-44	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07
-43	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08
-42	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09
-41	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10
-40	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12
-39	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13
-38	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15
-37	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.16
-36	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18
-35	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20
-34	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23
-33	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.25	0.25
-32	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28
-31	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31
-30	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35
-29	0.42	0.42	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.38
-28	0.47	0.46	0.46	0.45	0.45	0.44	0.44	0.43	0.43	0.43
-27	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47
-26	0.57	0.57	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.52
-25	0.63	0.63	0.62	0.61	0.61	0.60	0.60	0.59	0.58	0.58
-24	0.70	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.65	0.64
-23	0.77	0.76	0.76	0.75	0.74	0.73	0.73	0.72	0.71	0.71
-22	0.85	0.84	0.83	0.83	0.82	0.81	0.80	0.79	0.79	0.78
-21	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.86
-20	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.96	0.95
-19	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.04
-18	1.25	1.24	1.23	1.21	1.20	1.19	1.18	1.17	1.16	1.15
-17	1.37	1.36	1.35	1.33	1.32	1.31	1.30	1.28	1.27	1.26
-16	1.51	1.49	1.48	1.46	1.45	1.44	1.42	1.41	1.40	1.38
-15	1.65	1.64	1.62	1.61	1.59	1.58	1.56	1.55	1.53	1.52
-14	1.81	1.79	1.78	1.76	1.75	1.73	1.71	1.70	1.68	1.67
-13	1.98	1.97	1.95	1.93	1.91	1.89	1.88	1.86	1.84	1.83
-12	2.17	2.15	2.13	2.11	2.09	2.08	2.06	2.04	2.02	2.00
-11	2.38	2.35	2.33	2.31	2.29	2.27	2.25	2.23	2.21	2.19
-10	2.60	2.57	2.55	2.53	2.51	2.48	2.46	2.44	2.42	2.40
-9	2.84	2.81	2.79	2.76	2.74	2.71	2.69	2.67	2.64	2.62
-8	3.10	3.07	3.04	3.02	2.99	2.97	2.94	2.91	2.89	2.86
-7	3.38	3.35	3.32	3.29	3.26	3.24	3.21	3.18	3.15	3.12
-6	3.69	3.65	3.62	3.59	3.56	3.53	3.50	3.47	3.44	3.41
-5	4.01	3.98	3.95	3.91	3.88	3.85	3.81	3.78	3.75	3.72
-4	4.37	4.33	4.30	4.26	4.23	4.19	4.15	4.12	4.08	4.05
-3	4.76	4.72	4.68	4.64	4.60	4.56	4.52	4.49	4.45	4.41
-2	5.17	5.13	5.09	5.05	5.00	4.96	4.92	4.88	4.84	4.80
-1	5.62	5.58	5.53	5.49	5.44	5.39	5.35	5.31	5.26	5.22
-0	6.11	6.06	6.01	5.96	5.91	5.86	5.81	5.76	5.72	5.67