

LABORATORY 8: ATMOSPHERIC MOISTURE AND PRECIPITATION

Table 8.2a. Psychrometric table: dewpoint temperatures (°C).

Air temp. (°C)	Wet-bulb depression: $T_d - T_w$ (°C)									
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
-4	-7.6	-11.5	-16.8	-25.0	-	-	-	-	-	-
-3	-6.4	-9.9	-15.2	-21.4	-	-	-	-	-	-
-2	-5.1	-8.5	-12.8	-18.8	-30.5	-	-	-	-	-
-1	-3.9	-7.1	-11.4	-16.5	-26.2	-	-	-	-	-
0	-2.6	-5.6	-9.8	-14.0	-21.0	-	-	-	-	-
1	-1.5	-4.2	-7.9	-11.8	-17.9	-24.6	-	-	-	-
2	-0.5	-2.8	-6.0	-9.9	-15.2	-23.4	-	-	-	-
3	0.7	-1.4	-4.8	-7.9	-12.6	-19.8	-28.7	-	-	-
4	1.8	-0.8	-3.9	-6.3	-10.6	-16.2	-26.9	-	-	-
5	2.8	0.3	-3.0	-5.7	-9.8	-14.5	-22.4	-	-	-
6	3.8	1.5	-1.1	-4.3	-8.2	-12.0	-17.1	-33.0	-	-
7	5.0	2.8	0.3	-2.7	-6.3	-10.2	-15.6	-25.8	-	-
8	6.0	3.9	1.4	-1.4	-4.7	-8.8	-14.5	-19.0	-32.0	-
9	7.0	5.1	2.7	0.3	-3.0	-6.7	-12.3	-17.6	-29.7	-
10	8.1	6.1	3.9	1.4	-1.5	-4.9	-9.3	-15.3	-26.5	-
11	9.2	7.2	5.1	2.8	0.0	-3.1	-7.1	-12.4	-21.5	-27.6
12	10.2	8.3	6.2	4.0	1.2	-1.6	-5.2	-9.7	-16.6	-26.0
13	11.2	9.3	7.3	5.2	3.1	0.3	-3.6	-7.5	-13.4	-21.6
14	12.3	10.5	8.6	6.5	4.2	1.5	-1.6	-5.2	-10.0	-17.0
15	13.3	11.6	9.8	7.7	5.5	2.7	-0.2	-3.6	8.6	-14.5
16	14.4	12.7	10.9	8.9	6.7	4.4	1.7	-1.4	-5.1	-10.0
17	15.5	13.8	12.0	9.9	7.8	5.6	3.5	0.6	-2.7	-7.0
18	16.6	14.9	13.1	11.3	9.3	7.2	4.7	2.0	-1.1	-4.8
19	17.6	16.0	14.3	12.4	10.3	8.3	5.9	3.5	0.4	-2.9
20	18.7	17.3	15.6	13.7	11.8	9.8	7.5	5.2	2.4	-0.6
21	19.8	18.6	17.1	15.0	13.1	11.2	9.1	6.9	4.3	1.5
22	20.9	20.0	18.4	16.5	14.5	12.4	10.3	8.1	5.7	3.1
23	22.0	21.0	19.6	18.0	16.2	14.1	11.8	9.6	6.7	4.2
24	23.0	21.9	20.7	19.4	17.7	15.6	13.2	11.0	8.6	6.2
25	24.0	23.0	21.9	20.7	19.1	17.4	14.6	12.2	9.7	7.3
26	25.0	24.0	22.9	21.8	20.4	19.0	16.9	14.4	11.8	9.3
27	26.0	25.0	24.0	22.9	21.7	20.4	18.6	16.5	13.9	11.5
28	27.0	26.0	25.0	23.9	22.8	21.7	20.3	18.6	16.2	13.6
29	28.0	27.0	26.0	25.0	23.9	22.8	21.6	19.2	17.2	15.1
30	29.0	28.0	27.0	26.0	25.0	23.9	22.8	21.6	20.0	18.3

Table 8.2b. Psychrometric table: relative humidity (%).

Air temp. (°C)	Wet-bulb depression: $T_d - T_w$ (°C)									
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
-4	77	55	33	12	-	-	-	-	-	-
-3	78	57	37	17	-	-	-	-	-	-
-2	79	60	40	22	-	-	-	-	-	-
-1	81	62	43	26	8	-	-	-	-	-
0	81	64	46	29	13	-	-	-	-	-
1	83	66	49	33	17	-	-	-	-	-
2	84	68	52	37	22	7	-	-	-	-
3	84	70	55	40	26	12	-	-	-	-
4	86	71	57	43	29	16	-	-	-	-
5	86	72	58	45	33	20	7	-	-	-
6	87	73	60	48	35	24	11	-	-	-
7	87	74	62	50	38	26	15	-	-	-
8	88	75	63	51	40	29	19	8	-	-
9	88	76	64	53	42	32	22	12	-	-
10	89	77	66	55	44	34	24	15	6	-
11	89	78	67	56	46	36	27	18	9	-
12	89	78	68	58	48	39	29	21	12	3
13	89	79	69	60	50	41	32	23	15	7
14	90	80	70	61	51	42	34	26	18	10
15	90	80	71	61	53	44	36	27	20	13
16	90	81	71	63	54	46	38	30	22	15
17	90	81	72	64	55	47	40	32	25	18
18	91	82	73	65	57	49	41	34	27	20
19	91	82	74	65	58	50	43	36	29	22
20	91	83	74	66	59	51	44	37	31	24
21	91	83	75	67	60	53	46	39	32	26
22	92	83	76	68	61	54	47	40	34	28
23	92	84	76	69	62	55	48	42	36	30
24	92	84	77	69	62	56	49	43	37	31
25	92	84	77	70	63	57	50	44	39	33
26	92	85	78	71	64	58	51	46	40	34
27	92	85	78	71	65	58	52	47	41	36
28	93	85	78	72	65	59	53	48	42	37
29	93	86	79	72	66	60	54	49	43	38
30	93	86	79	73	67	61	55	50	44	39