TABLE 6. THERMODYNAMIC PROPERTIES OF MOIST AIR[a], 29.921 IN. HG (CONTINUED)

Temp Deg F	Saturation Humidity Ratio W_s Weight of Water per Lb of Dry Air		Volume Cu Ft per Lb Dry Air			Enthalpy Btu per Lb Dry Air			Specific Enthalpy of Solid Water Btu per Lb h_w'	Saturation Pressure p_s		Temp Deg F
	Pounds	Grains	Dry Air v_a	v_{as} (v_s-v_a)	Saturated Mixture v_s	Dry Air h_a	h_{as} (h_s-h_a)	Saturated Mixture h_s		In. of Hg	Lb per Sq In.	
0	0.0007852	5.50	11.58	0.01	11.59	0.000	0.832	0.832	−158.9	0.03773	0.01853	0
1	.0008275	5.79	11.60	.02	11.62	.240	.877	1.117	−158.5	.03975	.01963	1
2	.0008714	6.10	11.63	.01	11.64	.480	.924	1.404	−158.0	.04186	.02056	2
3	.0009179	6.43	11.65	.02	11.67	.720	.974	1.694	−157.5	.04409	.02166	3
4	.0009671	6.77	11.68	.02	11.70	.960	1.026	1.986	−157.0	.04645	.02282	4
5	0.001017	7.12	11.70	0.02	11.72	1.200	1.080	2.280	−156.6	0.04886	0.02400	5
6	.001071	7.50	11.73	.02	11.75	1.440	1.137	2.577	−156.1	.05144	.02527	6
7	.001127	7.89	11.75	.02	11.77	1.680	1.197	2.877	−155.6	.05412	.02658	7
8	.001186	8.30	11.78	.02	11.80	1.920	1.260	3.180	−155.1	.05692	.02796	8
9	.001247	8.73	11.80	.03	11.83	2.160	1.336	3.486	−154.7	.05988	.02941	9
10	0.001311	9.18	11.83	0.02	11.85	2.400	1.395	3.795	−154.2	0.06295	0.03092	10
11	.001379	9.65	11.86	.02	11.88	2.640	1.468	4.108	−153.7	.06618	.03251	11
12	.001450	10.15	11.88	.03	11.91	2.880	1.544	4.424	−153.2	.06958	.03418	12
13	.001523	10.66	11.91	.02	11.93	3.120	1.622	4.742	−152.7	.07309	.03590	13
14	.001600	11.20	11.93	.03	11.96	3.359	1.705	5.064	−152.2	.07677	.03771	14
15	0.001682	11.77	11.96	0.03	11.99	3.599	1.793	5.392	−151.8	0.08067	0.03963	15
16	.001766	12.36	11.98	.03	12.01	3.839	1.883	5.722	−151.3	.08469	.04160	16
17	.001855	12.99	12.00	.04	12.04	4.079	1.979	6.058	−150.8	.08895	.04369	17
18	.001947	13.63	12.03	.04	12.07	4.319	2.078	6.397	−150.3	.09337	.04586	18
19	.002043	14.30	12.06	.03	12.09	4.559	2.182	6.741	−149.8	.09797	.04812	19
20	0.002144	15.01	12.08	0.04	12.12	4.798	2.290	7.088	−149.3	0.1028	0.05050	20
21	.002250	15.75	12.11	.04	12.15	5.038	2.405	7.443	−148.8	.1078	.05295	21
22	.002361	16.53	12.13	.05	12.18	5.278	2.524	7.802	−148.3	.1132	.05560	22
23	.002476	17.33	12.16	.04	12.20	5.518	2.648	8.166	−147.8	.1186	.05826	23
24	.002596	18.17	12.18	.05	12.23	5.758	2.778	8.536	−147.3	.1244	.06111	24
25	0.002722	19.05	12.21	0.05	12.26	5.998	2.914	8.912	−146.8	0.1304	0.06405	25
26	.002853	19.97	12.23	.06	12.29	6.237	3.055	9.292	−146.4	.1366	.06710	26
27	.002991	20.94	12.26	.06	12.32	6.477	3.205	9.682	−145.9	.1432	.07034	27
28	.003133	21.93	12.28	.06	12.34	6.717	3.358	10.075	−145.4	.1500	.07368	28
29	.003283	22.99	12.31	.06	12.37	6.957	3.520	10.477	−144.9	.1571	.07717	29
30	0.003439	24.07	12.33	0.07	12.40	7.197	3.689	10.886	−144.4	0.1645	0.08080	30
31	.003601	25.21	12.36	.07	12.43	7.437	3.865	11.302	−143.9	.1722	.08458	31
32	.003771	26.40	12.38	.08	12.46	7.677	4.049	11.726	−143.4	.1803	.08856	32
33	.003931	27.52	12.41	.08	12.49	7.917	4.222	12.139	+ 1.0	.1879	.09230	33
34	.004094	28.66	12.43	.08	12.51	8.157	4.399	12.556	+ 2.0	.1957	.09610	34

[a]Compiled by W. M. Sawdon and extended by John A. Goff.

TABLE 6. THERMODYNAMIC PROPERTIES OF MOIST AIR[a], 29.921 IN. HG (CONTINUED)

Temp Deg F	Saturation Humidity Ratio W_s Weight of Water per Lb of Dry Air		Volume Cu Ft per Lb Dry Air			Enthalpy Btu per Lb Dry Air			Specific Enthalpy of Liquid Water Btu per Lb h_w'	Saturation Pressure p_s		Temp Deg F
	Pounds	Grains	Dry Air v_a	v_{as} (v_s-v_a)	Saturated Mixture v_s	Dry Air h_a	h_{as} (h_s-h_a)	Saturated Mixture h_s		In. of Hg	Lb per Sq In.	
35	0.004262	29.83	12.46	0.08	12.54	8.397	4.582	12.979	3.0	0.20360	0.1000	35
36	.004438	31.07	12.48	.09	12.57	8.636	4.773	13.409	4.0	.21195	.1041	36
37	.004618	32.33	12.51	.09	12.60	8.876	4.969	13.845	5.0	.22050	.1083	37
38	.004803	33.62	12.53	.10	12.63	9.116	5.169	14.285	6.0	.22925	.1126	38
39	.004996	34.97	12.56	.10	12.66	9.356	5.380	14.736	7.0	.23842	.1171	39
40	0.005194	36.36	12.59	0.10	12.69	9.596	5.595	15.191	8.0	0.24778	0.1217	40
41	.005401	37.80	12.61	.11	12.72	9.836	5.821	15.657	9.1	.25755	.1265	41
42	.005616	39.31	12.64	.11	12.75	10.08	6.05	16.13	10.1	.26773	.1315	42
43	.005840	40.88	12.66	.12	12.78	10.32	6.30	16.62	11.1	.27832	.1367	43
44	.006069	42.48	12.69	.12	12.81	10.56	6.55	17.11	12.1	.28911	.1420	44
45	0.006306	44.14	12.71	0.13	12.84	10.80	6.81	17.61	13.1	0.30031	0.1475	45
46	.006553	45.87	12.74	.13	12.87	11.04	7.08	18.12	14.1	.31191	.1532	46
47	.006808	47.66	12.76	.14	12.90	11.28	7.36	18.64	15.1	.32393	.1591	47
48	.007072	49.50	12.79	.14	12.93	11.52	7.64	19.16	16.1	.33635	.1652	48
49	.007345	51.42	12.81	.15	12.96	11.76	7.94	19.70	17.1	.34917	.1715	49
50	0.007626	53.38	12.84	0.15	12.99	12.00	8.25	20.25	18.1	0.36241	0.1780	50
51	.007921	55.45	12.86	.16	13.02	12.23	8.57	20.80	19.1	.37625	.1848	51
52	.008226	57.58	12.89	.17	13.06	12.47	8.91	21.38	20.1	.39051	.1918	52
53	.008534	59.74	12.91	.18	13.09	12.71	9.24	21.95	21.1	.40496	.1989	53
54	.008856	61.99	12.94	.18	13.12	12.95	9.60	22.55	22.1	.42003	.2063	54
55	0.009192	64.34	12.96	0.19	13.15	13.19	9.96	23.15	23.1	0.43570	0.2140	55
56	.009536	66.75	12.99	.20	13.19	13.43	10.34	23.77	24.1	.45179	.2219	56
57	.009890	69.23	13.01	.21	13.22	13.67	10.73	24.40	25.1	.46828	.2300	57
58	.01026	71.82	13.04	.21	13.25	13.91	11.14	25.05	26.1	.48538	.2384	58
59	.01064	74.48	13.06	.23	13.29	14.15	11.55	25.70	27.1	.50310	.2471	59
60	0.01103	77.21	13.09	0.23	13.32	14.39	11.98	26.37	28.1	0.52142	0.2561	60
61	.01144	80.08	13.11	.24	13.35	14.63	12.43	27.06	29.1	.54035	.2654	61
62	.01186	83.02	13.14	.25	13.39	14.87	12.89	27.76	30.1	.55970	.2749	62
63	.01229	86.03	13.16	.26	13.42	15.11	13.37	28.48	31.1	.57985	.2848	63
64	.01274	89.18	13.19	.27	13.46	15.35	13.86	29.21	32.1	.60042	.2949	64
65	0.01320	92.40	13.21	0.28	13.49	15.59	14.37	29.96	33.1	0.62179	0.3054	65
66	.01368	95.76	13.24	.29	13.53	15.83	14.90	30.73	34.1	.64378	.3162	66
67	.01417	99.19	13.26	.31	13.57	16.07	15.44	31.51	35.1	.66638	.3273	67
68	.01468	102.8	13.29	.31	13.60	16.31	16.00	32.31	36.0	.68980	.3388	68
69	.01520	106.4	13.31	.33	13.64	16.55	16.57	33.12	37.0	.71382	.3506	69

[a]Compiled by W. M. Sawdon and extended by John A. Goff.