TABLE 6. PROPERTIES OF SATURATED WATER VAPOR WITH AIR, 0 F TO 200 F[a] (PART II)

Temp, F	Pressure of Saturated Vapor		Weight of Saturated Vapor				Volume in Cu Ft Barometer, 29.92 In. Hg.		Enthalpy per Lb		
			per Cu Ft		per lb of Dry Air						
	In. of Hg.	Lb per Sq In.	Pounds	Grains	Pounds	Grains	of 1 lb of Dry Air	of 1 lb of Dry Air + Vapor to Saturate it	Dry Air 0 F Datum	Vapor 32 F Datum	Dry Air with Vapor to Saturate it
0	0.03773	0.01853	0.000067914	0.475	0.0007852	5.50	11.58	11.59	0.0000	1059.2	0.8317
1	.03975	.01963	.000071395	.500	.0008275	5.79	11.60	11.62	.2401	1059.7	1.117
2	.04186	.02056	.000075021	.525	.0008714	6.10	11.63	11.64	.4801	1060.1	1.404
3	.04409	.02166	.000078851	.552	.0009179	6.43	11.65	11.67	.7201	1060.6	1.694
4	.04645	.02282	.000082890	.580	.0009671	6.77	11.68	11.70	.9601	1061.0	1.986
5	0.04886	0.02400	0.000087005	0.609	0.001017	7.12	11.70	11.72	1.200	1061.5	2.280
6	.05144	.02527	.000091399	.640	.001071	7.50	11.73	11.75	1.440	1061.9	2.577
7	.05412	.02658	.000095955	.672	.001127	7.89	11.75	11.77	1.680	1062.4	2.877
8	.05692	.02796	.00010070	.705	.001186	8.30	11.78	11.80	1.920	1062.8	3.180
9	.05988	.02941	.00010572	.740	.001247	8.73	11.80	11.83	2.160	1063.3	3.486
10	0.06295	0.03092	0.00011090	0.776	0.001311	9.18	11.83	11.85	2.400	1063.7	3.795
11	.06618	.03251	.00011634	.814	.001379	9.65	11.86	11.88	2.640	1064.2	4.108
12	.06958	.03418	.00012206	.854	.001450	10.15	11.88	11.91	2.880	1064.6	4.424
13	.07309	.03590	.00012794	.896	.001523	10.66	11.91	11.93	3.120	1065.1	4.742
14	.07677	.03771	.00013410	.939	.001600	11.20	11.93	11.96	3.359	1065.5	5.064
15	0.08067	0.03963	0.00014062	0.984	0.001682	11.77	11.96	11.99	3.599	1066.0	5.392
16	.08469	.04160	.00014732	1.031	.001766	12.36	11.98	12.01	3.839	1066.4	5.722
17	.08895	.04369	.00015440	1.081	.001855	12.99	12.00	12.04	4.079	1066.9	6 058
18	.09337	.04586	.00016174	1.132	.001947	13.63	12.03	12.07	4.319	1067.3	6.397
19	.09797	.04812	.00016935	1.185	.002043	14.30	12.06	12.09	4.559	1067.8	6.741
20	0.1028	0.05050	0.00017747	1.242	0.002144	15.01	12.08	12.12	4.798	1068.2	7.088
21	.1078	.05295	.00018564	1.299	.002250	15.75	12.11	12.15	5.038	1068.7	7.443
22	.1132	.05560	.00019439	1.361	.002361	16.53	12.13	12.18	5.278	1069.1	7.802
23	.1186	.05826	.00020335	1.423	.002476	17.33	12.16	12.20	5.518	1069.6	8.166
24	.1244	.06111	.00021276	1.489	.002596	18.17	12.18	12.23	5.758	1070.0	8.536
25	0.1304	0.06405	0.00022255	1.558	0.002722	19.05	12.21	12.26	5.998	1070.5	8.912
26	.1366	.06710	.00023278	1.629	.002853	19.97	12.23	12.29	6.237	1070.9	9.292
27	.1432	.07034	.00024342	1.704	.002991	20.94	12.26	12.32	6.477	1071.4	9.682
28	.1500	.07368	.00025445	1.781	.003133	21.93	12.28	12.34	6.717	1071.8	10.075
29	.1571	.07717	.00026597	1.862	.003283	22.99	12.31	12.37	6.957	1072.3	10.477
30	0.1645	0.08080	0.00027797	1.946	0.003439	24.07	12.33	12.40	7.197	1072.7	10.886
31	.1722	.08458	.00029043	2.033	.003601	25.21	12.36	12.43	7.437	1073.2	11.302
32	.1803	.08856	.00030343	2.124	.003771	26.40	12.38	12.46	7.677	1073.6	11.726
33	.1879	.09230	.00031471	2.203	.003931	27.52	12.41	12.49	7.917	1074.1	12.139
34	.1957	.09610	.00032690	2.288	.004094	28.66	12.43	12.51	8.157	1074.5	12.556

[a]Compiled by W. M. Sawdon, vapor pressures converted from *International Critical Tables.*

TABLE 6. PROPERTIES OF SATURATED WATER VAPOR WITH AIR, 0 F TO 200 F[a] (PART II, CONTINUED)

Temp, F	Pressure of Saturated Vapor		Weight of Saturated Vapor				Volume in Cu Ft Barometer, 29.92 In. Hg.		Enthalpy per Lb		
			per Cu Ft		per lb of Dry Air						
	In. of Hg.	Lb per Sq In.	Pounds	Grains	Pounds	Grains	of 1 lb of Dry Air	of 1 lb of Dry Air + Vapor to Saturate it	Dry Air 0 F Datum	Vapor 32 F Datum	Dry Air with Vapor to Saturate it
35	0.20360	0.1000	0.0003394	2.376	0.004262	29.83	12.46	12.54	8.397	1075.0	12.979
36	.21195	.1041	.0003527	2.469	.004438	31.07	12.48	12.57	8.636	1075.4	13.409
37	.22050	.1083	.0003662	2.563	.004618	32.33	12.51	12.60	8.876	1075.9	13.845
38	.22925	.1126	.0003799	2.660	.004803	33.62	12.53	12.63	9.116	1076.3	14.285
39	.23842	.1171	.0003943	2.760	.004996	34.97	12.56	12.66	9.356	1076.8	14.736
40	0.24778	0.1217	0.0004090	2.863	0.005194	36.36	12.59	12.69	9.596	1077.2	15.191
41	.25755	.1265	.0004243	2.970	.005401	37.80	12.61	12.72	9.836	1077.7	15.657
42	.26773	.1315	.0004401	3.081	.005616	39.31	12.64	12.75	10.08	1078.1	16.13
43	.27832	.1367	.0004566	3.196	.005840	40.88	12.66	12.78	10.32	1078.6	16.62
44	.28911	.1420	.0004735	3.315	.006069	42.48	12.69	12.81	10.56	1079.0	17.11
45	0.30031	0.1475	0.0004909	3.436	0.006306	44.14	12.71	12.84	10.80	1079.5	17.61
46	.31191	.1532	.0005088	3.562	.006553	45.87	12.74	12.87	11.04	1079.9	18.12
47	.32393	.1591	.0005274	3.692	.006808	47.66	12.76	12.90	11.28	1080.4	18.64
48	.33635	.1652	.0005465	3.826	.007072	49.50	12.79	12.93	11.52	1080.8	19.16
49	.34917	.1715	.0005663	3.964	.007345	51.42	12.81	12.96	11.76	1081.3	19.70
50	0.36241	0.1780	0.0005866	4.106	0.007626	53.38	12.84	12.99	12.00	1081.7	20.25
51	.37625	.1848	.0006078	4.255	.007921	55.45	12.86	13.02	12.23	1082.2	20.80
52	.39051	.1918	.0006296	4.407	.008226	57.58	12.89	13.06	12.47	1082.6	21.38
53	.40496	.1989	.0006516	4.561	.008534	59.74	12.91	13.09	12.71	1083.1	21.95
54	.42003	.2063	.0006746	4.722	.008856	61.99	12.94	13.12	12.95	1083.5	22.55
55	0.43570	0.2140	0.0006984	4.889	0.009192	64.34	12.96	13.15	13.19	1084.0	23.15
56	.45179	.2219	.0007228	5.060	.009536	66.75	12.99	13.19	13.43	1084.4	23.77
57	.46828	.2300	.0007477	5.234	.009890	69.23	13.01	13.22	13.67	1084.9	24.40
58	.48538	.2384	.0007735	5.415	.01026	71.82	13.04	13.25	13.91	1085.3	25.05
59	.50310	.2471	.0008003	5.602	.01064	74.48	13.06	13.29	14.15	1085.8	25.70
60	0.52142	0.2561	0.0008278	5.795	0.01103	77.21	13.09	13.32	14.39	1086.2	26.37
61	.54035	.2654	.0008562	5.993	.01144	80.08	13.11	13.35	14.63	1086.7	27.06
62	.55970	.2749	.0008852	6.196	.01186	83.02	13.14	13.39	14.87	1087.1	27.76
63	.57985	.2848	.0009153	6.407	.01229	86.03	13.16	13.42	15.11	1087.6	28.48
64	.60042	.2949	.0009460	6.622	.01274	89.18	13.19	13.46	15.35	1088.0	29.21
65	0.62179	0.3054	0.0009778	6.845	0.01320	92.40	13.21	13.49	15.59	1088.5	29.96
66	.64378	.3162	.0010105	7.074	.01368	95.76	13.24	13.53	15.83	1088.9	30.73
67	.66638	.3273	.0010440	7.308	.01417	99.19	13.26	13.57	16.07	1089.4	31.51
68	.68980	.3388	.0010816	7.571	.01468	102.8	13.29	13.60	16.31	1089.8	32.31
69	.71382	.3506	.0011140	7.798	.01520	106.4	13.31	13.64	16.55	1090.3	33.12

[a]Compiled by W. M. Sawdon, vapor pressures converted from *International Critical Tables.*