Table 5. Properties of Saturated Water Vapor with Air, 0 F to 200 F[a] (Continued)

Temp., F	Pressure of Saturated Vapor		Weight of Saturated Vapor				Volume in Cu Ft Barometer, 29.92 In. Hg		Heat Content 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
70	0.73866	0.3628	0.0011507	8.055	0.01574	110.2	13.34	13.68	16.79	1090.7	33.96
71	.76431	.3754	.0011884	8.319	.01631	114.2	13.37	13.71	17.03	1091.2	34.83
72	.79058	.3883	.0012269	8.588	.01688	118.2	13.40	13.75	17.27	1091.6	35.70
73	.81766	.4016	.0012667	8.867	.01748	122.4	13.42	13.79	17.51	1092.1	36.60
74	.84555	.4153	.0013075	9.153	.01809	126.6	13.44	13.83	17.75	1092.5	37.51
75	0.87448	0.4295	0.0013497	9.448	0.01873	131.1	13.47	13.87	17.99	1093.0	38.46
76	.90398	.4440	.0013927	9.749	.01938	135.7	13.49	13.91	18.23	1093.4	39.42
77	.93452	.4590	.0014371	10.06	.02005	140.4	13.52	13.95	18.47	1093.9	40.40
78	.96588	.4744	.0014825	10.38	.02075	145.3	13.54	13.99	18.71	1094.3	41.42
79	.99825	.4903	.0015295	10.71	.02147	150.3	13.57	14.03	18.95	1094.8	42.46
80	1.0316	0.5067	0.0015777	11.04	0.02221	155.5	13.59	14.08	19.19	1095.2	43.51
81	1.0661	.5236	.0016273	11.39	.02298	160.9	13.62	14.12	19.43	1095.7	44.61
82	1.1013	.5409	.0016781	11.75	.02377	166.4	13.64	14.16	19.67	1096.1	45.72
83	1.1377	.5588	.0017304	12.11	.02459	172.1	13.67	14.21	19.91	1096.6	46.88
84	1.1752	.5772	.0017841	12.49	.02543	178.0	13.69	14.26	20.15	1097.0	48.05
85	1.2135	0.5960	0.0018389	12.87	0.02629	184.0	13.72	14.30	20.39	1097.5	49.24
86	1.2527	.6153	.0018950	13.27	.02718	190.3	13.74	14.34	20.63	1097.9	50.47
87	1.2933	.6352	.0019531	13.67	.02810	196.7	13.77	14.39	20.87	1098.4	51.74
88	1.3346	.6555	.0020116	14.08	.02904	203.3	13.79	14.44	21.11	1098.8	53.02
89	1.3774	.6765	.0020725	14.51	.03002	210.1	13.82	14.48	21.35	1099.3	54.35
90	1.4211	0.6980	0.0021344	14.94	0.03102	217.1	13.84	14.53	21.59	1099.7	55.70
91	1.4661	.7201	.0021982	15.39	.03205	224.4	13.87	14.58	21.83	1100.2	57.09
92	1.5125	.7429	.0022634	15.84	.03312	231.8	13.89	14.63	22.07	1100.6	58.52
93	1.5600	.7662	.0023304	16.31	.03421	239.5	13.92	14.69	22.32	1101.1	59.99
94	1.6088	.7902	.0023992	16.79	.03535	247.5	13.94	14.73	22.56	1101.5	61.50
95	1.6591	0.8149	0.0024697	17.28	0.03652	255.6	13.97	14.79	22.80	1102.0	63.05
96	1.7108	.8403	.0025425	17.80	.03772	264.0	13.99	14.84	23.04	1102.4	64.62
97	1.7638	.8663	.0026164	18.31	.03896	272.7	14.02	14.90	23.28	1102.9	66.25
98	1.8181	.8930	.0026925	18.85	.04024	281.7	14.04	14.95	23.52	1103.3	67.92
99	1.8741	.9205	.0027700	19.39	.04156	290.9	14.07	15.01	23.76	1103.8	69.63
100	1.9316	0.9487	0.0028506	19.95	0.04293	300.5	14.10	15.07	24.00	1104.2	71.40
101	1.9904	.9776	.0029316	20.52	.04433	310.3	14.12	15.12	24.24	1104.7	73.21
102	2.0507	1.0072	.0030156	21.11	.04577	320.4	14.15	15.18	24.48	1105.1	75.06
103	2.1128	1.0377	.0031017	21.71	.04726	330.8	14.17	15.25	24.72	1105.6	76.97
104	2.1763	1.0689	.0031887	22.32	.04879	341.5	14.20	15.31	24.96	1106.0	78.92

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

Table 5. Properties of Saturated Water Vapor with Air, 0 F to 200 F[a] (Continued)

Temp., F	Pressure of Saturated Vapor		Weight of Saturated Vapor				Volume in Cu Ft Barometer, 29.92 In. Hg		Heat Content 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
105	2.2414	1.1009	0.0032786	22.95	0.05037	352.6	14.22	15.37	25.20	1106.5	80.93
106	2.3084	1.1338	.0033715	23.60	.05200	364.0	14.25	15.44	25.44	1106.9	83.00
107	2.3770	1.1675	.0034650	24.26	.05368	375.8	14.27	15.50	25.68	1107.4	85.13
108	2.4473	1.2020	.0035612	24.93	.05541	387.9	14.30	15.57	25.92	1107.8	87.30
109	2.5196	1.2375	.0036603	25.62	.05719	400.3	14.32	15.64	26.16	1108.3	89.54
110	2.5939	1.274	0.0037622	26.34	0.05904	413.3	14.35	15.71	26.40	1108.7	91.86
111	2.6692	1.311	.0038669	27.07	.06092	426.4	14.37	15.78	26.64	1109.2	94.21
112	2.7486	1.350	.0039729	27.81	.06292	440.4	14.39	15.85	26.88	1109.6	96.70
113	2.8280	1.389	.0040816	28.57	.06493	454.5	14.42	15.93	27.12	1110.1	99.20
114	2.9094	1.429	.0041911	29.34	.06700	469.0	14.45	16.00	27.36	1110.5	101.76
115	2.9929	1.470	0.0043047	30.13	0.06913	483.9	14.47	16.08	27.60	1111.0	104.40
116	3.0784	1.512	.0044208	30.95	.07134	499.4	14.50	16.16	27.84	1111.4	107.13
117	3.1660	1.555	.0045372	31.76	.07361	515.3	14.52	16.24	28.08	1111.9	109.92
118	3.2576	1.600	.0046620	32.63	.07600	532.0	14.55	16.32	28.32	1112.3	112.85
119	3.3492	1.645	.0047846	33.49	.07840	548.8	14.57	16.41	28.56	1112.8	115.80
120	3.4449	1.692	0.0049115	34.38	0.08093	566.5	14.60	16.50	28.80	1113.2	118.89
121	3.5406	1.739	.005040	35.28	.08348	584.4	14.62	16.58	29.04	1113.7	122.01
122	3.6404	1.788	.005173	36.21	.08616	603.1	14.65	16.68	29.28	1114.1	125.27
123	3.7422	1.838	.005311	37.18	.08892	622.4	14.67	16.77	29.52	1114.6	128.63
124	3.8460	1.889	.005450	38.15	.09175	642.3	14.70	16.87	29.76	1115.0	132.06
125	3.9519	1.941	0.005590	39.13	0.09466	662.6	14.72	16.96	30.00	1115.5	135.59
126	4.0618	1.995	.005734	40.14	.09770	683.9	14.75	17.06	30.24	1115.9	139.26
127	4.1718	2.049	.005882	41.17	.1008	705.6	14.77	17.17	30.48	1116.4	143.01
128	4.2858	2.105	.006031	42.22	.1040	728.0	14.80	17.27	30.72	1116.8	146.87
129	4.4039	2.163	.006188	43.32	.1074	751.8	14.83	17.38	30.96	1117.3	150.96
130	4.5220	2.221	0.006344	44.41	0.1107	774.9	14.85	17.49	31.20	1117.7	154.93
131	4.6441	2.281	.006504	45.53	.1143	800.1	14.88	17.61	31.45	1118.2	159.26
132	4.7703	2.343	.006671	46.70	.1180	826.0	14.90	17.73	31.69	1118.6	163.68
133	4.8986	2.406	.006839	47.87	.1218	852.6	14.93	17.85	31.93	1119.1	168.24
134	5.0289	2.470	.007010	49.07	.1257	879.9	14.95	17.97	32.17	1119.5	172.89
135	5.1633	2.536	0.007185	50.30	0.1297	907.9	14.98	18.10	32.41	1120.0	177.67
136	5.2997	2.603	.007364	51.55	.1339	937.3	15.00	18.23	32.65	1120.4	182.67
137	5.4402	2.672	.007547	52.83	.1382	967.4	15.03	18.36	32.89	1120.9	187.80
138	5.5827	2.742	.007732	54.12	.1427	998.9	15.05	18.50	33.13	1121.3	193.14
139	5.7293	2.814	.007923	55.46	.1473	1031.1	15.08	18.65	33.37	1121.8	198.61

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