

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		HEAT CONTENT PER LB		
	In. of Hg	Lb per Sq In.	per Cu Ft		per lb of Dry Air		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
			Pounds	Grains	Pounds	Grains					
140	5.8770	3.887	0.008116	56.81	0.1521	1064.7	15.10	18.79	33.61	1122.2	204.30
141	6.0306	2.962	.008313	58.19	.1570	1099.0	15.13	18.94	33.85	1122.7	210.11
142	6.1874	3.039	.008516	59.61	.1622	1135.4	15.15	19.10	34.09	1123.1	216.28
143	6.3482	3.118	.008724	61.07	.1675	1172.5	15.18	19.26	34.33	1123.6	222.53
144	6.5111	3.198	.008933	62.53	.1730	1211.0	15.20	19.43	34.57	1124.0	229.02
145	6.6781	3.280	0.009148	64.04	0.1787	1250.9	15.23	19.60	34.81	1124.5	235.76
146	6.8471	3.363	.009366	65.56	.1846	1292.2	15.25	19.78	35.05	1124.9	242.71
147	7.0222	3.449	.009590	67.13	.1908	1335.6	15.28	19.98	35.29	1125.4	250.02
148	7.1993	3.538	.009817	68.72	.1971	1379.7	15.30	20.15	35.53	1125.8	257.43
149	7.3805	3.625	0.10040	70.28	.2037	1426.9	15.33	20.35	35.77	1126.3	265.20
150	7.5658	3.716	0.010284	71.99	0.2105	1473.5	15.35	20.55	36.02	1126.7	273.19
151	7.7551	3.809	.010526	73.68	.2176	1523.2	15.38	20.76	36.26	1127.2	281.54
152	7.9485	3.904	.010772	75.40	.2250	1575.0	15.40	20.97	36.50	1127.6	290.21
153	8.1460	4.001	.011022	77.15	.2327	1628.9	15.43	21.20	36.74	1128.1	299.25
154	8.3476	4.100	.011279	78.95	.2407	1684.9	15.45	21.43	36.98	1128.5	308.61
155	8.5532	4.201	0.011539	80.77	0.2490	1743.0	15.48	21.67	37.22	1129.0	318.34
156	8.7650	4.305	.011807	82.65	.2577	1803.9	15.50	21.93	37.46	1129.4	328.51
157	8.9788	4.410	.012077	84.54	.2667	1866.9	15.53	22.19	37.70	1129.9	339.04
158	9.1986	4.518	.012354	86.48	.2761	1932.7	15.56	22.46	37.94	1130.3	350.02
159	9.4206	4.627	.012634	88.44	.2858	2000.6	15.58	22.74	38.18	1130.8	361.36
160	9.6486	4.739	0.012919	90.43	0.2961	2072.7	15.61	23.03	38.43	1131.2	373.38
161	9.8807	4.853	.013211	92.48	.3067	2146.9	15.63	23.33	38.67	1131.7	385.76
162	10.119	4.970	.013509	94.56	.3179	2225.3	15.66	23.65	38.91	1132.1	398.80
163	10.361	5.089	.013812	96.68	.3295	2308.5	15.68	23.98	39.15	1132.5	412.34
164	10.608	5.210	.014120	98.84	.3416	2391.2	15.71	24.33	39.39	1133.0	426.42
165	10.860	5.334	0.014434	101.0	0.3544	2480.8	15.73	24.69	39.63	1133.5	441.34
166	11.117	5.460	.014753	103.3	.3677	2573.9	15.76	25.07	39.87	1133.9	456.81
167	11.379	5.589	.015080	105.6	.3817	2671.9	15.78	25.46	40.11	1134.4	473.11
168	11.646	5.720	.015410	107.9	.3964	2774.8	15.81	25.88	40.35	1134.8	490.18
169	11.919	5.854	.015750	110.3	.4118	2882.6	15.83	26.31	40.59	1135.3	508.11
170	12.196	5.990	0.016092	112.6	0.4280	2996.0	15.86	26.77	40.83	1135.7	526.91
171	12.480	6.130	.016444	115.1	.4451	3115.7	15.88	27.24	41.07	1136.2	546.79
172	12.770	6.272	.016801	117.6	.4631	3241.7	15.91	27.74	41.32	1136.6	567.68
173	13.065	6.417	.017164	120.1	.4821	3374.7	15.93	28.28	41.56	1137.1	589.76
174	13.366	6.565	.017534	122.7	.5022	3515.4	15.96	28.84	41.80	1137.5	613.05

^aCompiled 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, CONCLUDED)

TEMP. F	PRESSURE OF SATURATED VAPOR		WEIGHT OF SATURATED VAPOR				VOLUME IN CU FT BAROMETER, 29.92 IN. HG		HEAT CONTENT PER LB		
	In. of Hg	Lb per Sq In.	per Cu Ft		per lb of Dry Air		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
			Pounds	Grains	Pounds	Grains					
175	13.674	6.716	0.017914	125.4	0.5235	3664.5	15.98	29.43	42.04	1138.0	637.78
176	13.985	6.869	.018294	128.1	.5459	3821.3	16.01	30.05	42.28	1138.4	663.73
177	14.303	7.025	.018684	130.8	.5697	3987.9	16.03	30.71	42.52	1138.9	691.35
178	14.627	7.184	.019080	133.6	.5949	4164.3	16.06	31.41	42.76	1139.3	720.53
179	14.954	7.345	.019477	136.3	.6215	4350.5	16.08	32.15	43.00	1139.8	751.39
180	15.290	7.510	0.019888	139.2	0.6501	4550.7	16.11	32.94	43.24	1140.2	784.48
181	15.632	7.678	.020304	142.1	.6805	4763.5	16.13	33.78	43.49	1140.7	819.74
182	15.981	7.849	.020729	145.1	.7131	4991.7	16.16	34.68	43.73	1141.1	857.45
183	16.337	8.024	.021159	148.1	.7481	5236.7	16.18	35.65	43.97	1141.6	898.00
184	16.697	8.201	.021598	151.2	.7854	5497.8	16.21	36.67	44.21	1142.0	941.14
185	17.066	8.382	0.022045	154.3	0.8258	5780.6	16.23	37.78	44.45	1142.5	987.93
186	17.440	8.566	.022497	157.5	.8693	6085.1	16.26	38.98	44.69	1142.9	1038.21
187	17.821	8.753	.022956	160.7	.9162	6413.4	16.28	40.27	44.93	1143.4	1092.51
188	18.210	8.944	.023424	164.0	.9673	6771.1	16.31	41.67	45.18	1143.8	1151.58
189	18.605	9.138	.023900	167.3	1.0227	7158.9	16.34	43.04	45.42	1144.3	1216.04
190	19.008	9.336	0.024384	170.7	1.083	7581.0	16.36	44.45	45.66	1144.7	1285.37
191	19.419	9.538	.024881	174.2	1.150	8050.0	16.39	46.88	45.90	1145.2	1362.88
192	19.839	9.744	.025380	177.7	1.224	8568.0	16.41	48.70	46.14	1145.6	1448.35
193	20.266	9.954	.025893	181.3	1.306	9142.0	16.44	50.93	46.38	1146.1	1543.19
194	20.702	10.168	.026413	184.9	1.397	9779.0	16.46	53.42	46.62	1146.5	1648.28
195	21.144	10.385	0.026939	188.6	1.499	10493.0	16.49	56.20	46.86	1147.0	1766.21
196	21.592	10.605	.027472	192.3	1.613	11291.0	16.51	59.31	47.10	1147.4	1897.86
197	22.048	10.829	.028019	196.1	1.742	12194.0	16.54	62.85	47.34	1147.9	2046.98
198	22.512	11.057	.028571	200.0	1.890	13230.0	16.56	66.88	47.59	1148.3	2217.88
199	22.984	11.289	.029129	203.9	2.061	14427.0	16.59	71.54	47.83	1148.8	2415.51
200	23.465	11.525	0.029700	207.9	2.261	15827.0	16.61	76.99	48.07	1149.2	2646.41

^aCompiled by W. M. Sawdon, vapor pressures converted from *International Critical Tables*.