Properties of Saturated Steam and Saturated Water*

Absolute Pressure		Vacuum	Temperature	Heat of the Liquid	Latent Heat of Evaporation	Total Heat of Steam	Specific Volume $\overline{V}$	
Lbs. per Sq. In. P'	Inches of Hg	Inches of Hg	t Degrees F.	Btu/lb.	Btu/lb.	h_g Btu/lb.	Water Cu. ft. per lb.	Steam Cu. ft. per lb.
0.0087	0.02	29.90	32.018	0.0003	1075.5	1075.5	0.016022	3302.4
0.10	0.20	29.72	35.023	3.026	1073.8	1076.8	0.016020	2945.5
0.15	0.31	29.61	45.453	13.498	1067.9	1081.4	0.016020	2004.7
0.20	0.41	29.51	53.160	21.217	1053.5	1084.7	0.016025	1526.3
0.25	0.51	29.41	59.323	27.382	1060.1	1087.4	0.016032	1235.5
0.30	0.61	29.31	64.484	32.541	1057.1	1089.7	0.016040	1039.7
0.35	0.71	29.21	68.939	36.992	1054.6	1091.6	0.016048	898.6
0.40	0.81	29.11	72.869	40.917	1052.4	1093.3	0.016056	792.1
0.45	0.92	29.00	76.387	44.430	1050.5	1094.9	0.016063	708.8
0.50	1.02	28.90	79.586	47.623	1048.6	1096.3	0.016071	641.5
0.60	1.22	28.70	85.218	53.245	1045.5	1098.7	0.016085	540.1
0.70	1.43	28.49	90.09	58.10	1042.7	1100.8	0.016099	466.94
0.80	1.63	28.29	94.38	62.39	1040.3	1102.6	0.016112	411.69
0.90	1.83	28.09	98.24	66.24	1038.1	1104.3	0.016124	368.43
1.0	2.04	27.88	101.74	69.73	1036.1	1105.8	0.016136	333.60
1.2	2.44	27.48	107.91	75.90	1032.6	1108.5	0.016158	280.96
1.4	2.85	27.07	113.26	81.23	1029.5	1110.7	0.016178	243.02
1.6	3.26	26.66	117.98	85.95	1026.8	1112.7	0.016196	214.33
1.8	3.66	26.26	122.22	90.18	1024.3	1114.5	0.016213	191.85
2.0	4.07	25.85	126.07	94.03	1022.1	1116.2	0.016230	173.76
2.2	4.48	25.44	129.61	97.57	1020.1	1117.6	0.016245	158.87
2.4	4.89	25.03	132.88	100.84	1018.2	1119.0	0.016260	146.40
2.6	5.29	24.63	135.93	103.88	1016.4	1120.3	0.016274	135.80
2.8	7.70	24.22	138.78	106.73	1014.7	1121.5	0.016287	126.67
3.0	6.11	23.81	141.47	109.42	1013.2	1122.6	0.016300	118.73
3.5	7.13	22.79	147.56	115.51	1009.6	1125.1	0.016331	102.74
4.0	8.14	21.78	152.96	120.92	1006.4	1127.3	0.016358	90.64
4.5	9.16	20.76	157.82	125.77	1003.5	1129.3	0.016384	83.03
5.0	10.18	19.74	162.24	130.20	1000.9	1131.1	0.016407	73.532
5.5	11.20	18.72	166.29	134.26	998.5	1132.7	0.016430	67.249
6.0	12.22	17.70	170.05	138.03	996.2	1134.2	0.016451	61.984
6.5	13.23	16.69	173.56	141.54	994.1	1135.6	0.016472	57.506
7.0	14.25	15.67	176.84	144.83	992.1	1136.9	0.016491	53.650
7.5	15.27	14.65	179.93	147.93	990.2	1138.2	0.016510	50.294
8.0	16.29	13.63	182.86	150.87	988.5	1139.3	0.016527	47.345
8.5	17.31	12.61	185.63	153.65	986.8	1140.4	0.016545	44.733
9.0	18.32	11.60	188.27	156.30	985.1	1141.4	0.016561	42.402
9.5	19.34	10.58	190.80	158.84	983.6	1142.4	0.016577	40.310
10.0	20.36	9.56	193.21	161.26	982.1	1143.3	0.016592	38.420
11.0	22.40	7.52	197.75	165.82	979.3	1145.1	0.016622	35.142
12.0	24.43	5.49	201.96	170.05	976.6	1146.7	0.016650	32.394
13.0	26.47	3.45	205.88	174.00	974.2	1148.2	0.016676	30.057
14.0	38.50	1.42	209.56	177.71	971.9	1149.6	0.016702	28.043

Pressure Lbs. per Sq. In.		Temperature	Heat of the Liquid	Latent Heat of Evaporation	Total Heat of Steam	Specific Volume $\overline{V}$	
Absolute P'	Gage P	t Degrees F.	Btu/lb.	Btu/lb.	h_g Btu/lb.	Water Cu. ft. per lb.	Steam Cu. ft. per lb.
14.696	0.0	212.00	180.17	970.3	1150.5	0.016719	26.799
15.0	0.3	213.03	181.21	969.7	1150.9	0.016726	26.290
16.0	1.3	216.32	184.52	967.6	1152.1	0.016749	24.750
17.0	2.3	219.44	187.66	965.6	1153.2	0.016771	23.385
18.0	3.3	222.41	190.66	963.7	1154.3	0.016793	22.168
19.0	4.3	225.24	193.52	961.8	1155.3	0.016814	21.074
20.0	5.3	227.96	196.27	960.1	1156.3	0.016834	20.087
21.0	6.3	230.57	198.90	958.4	1157.3	0.016854	19.190
22.0	7.3	233.07	201.44	956.7	1158.1	0.016873	18.373
23.0	8.3	235.49	203.88	955.1	1159.0	0.016891	17.624
24.0	9.3	237.82	206.24	953.6	1159.8	0.016909	16.936
25.0	10.3	240.07	208.52	952.1	1160.6	0.016927	16.301
26.0	11.3	242.25	210.7	950.6	1161.4	0.016944	15.7138
27.0	12.3	244.36	212.9	949.2	1162.1	0.016961	15.1684
28.0	13.3	246.41	214.9	947.9	1162.8	0.016977	14.6607
29.0	14.3	248.40	217.0	946.5	1163.5	0.016993	14.1869
30.0	15.3	250.34	218.9	945.2	1164.1	0.017009	13.7436
31.0	16.3	252.22	220.8	943.9	1164.8	0.017024	13.3280
32.0	17.3	254.05	222.7	942.7	1165.4	0.017039	12.9376
33.0	18.3	255.84	224.5	941.5	1166.0	0.017054	12.5700
34.0	19.3	257.58	226.3	940.3	1166.6	0.017069	12.2234

*Abstracted from ASME Steam Tables (1967), with permission of the publisher, The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York 10017.

(continued on the next page)

Properties of Saturated Steam and Saturated Water—continued

Pressure Lbs. per Sq. In. Absolute P'	Pressure Lbs. per Sq. In. Gage P	Temperature t Degrees F.	Heat of the Liquid Btu/lb.	Latent Heat of Evaporation Btu/lb.	Total Heat of Steam h_g Btu/lb.	Specific Volume $\overline{V}$ Water Cu. ft. per lb.	Specific Volume $\overline{V}$ Steam Cu. ft. per lb.
35.0	20.3	259.29	228.0	939.1	1167.1	0.017083	11.8959
36.0	21.3	260.95	229.7	938.0	1167.7	0.017097	11.5860
37.0	22.3	262.58	231.4	936.9	1168.2	0.017111	11.2923
38.0	23.3	264.17	233.0	935.8	1168.8	0.017124	11.0136
39.0	24.3	265.72	234.6	934.7	1169.3	0.017138	10.7487
40.0	25.3	267.25	236.1	933.6	1169.8	0.017151	10.4965
41.0	26.3	268.74	237.7	932.6	1170.2	0.017164	10.2563
42.0	27.3	270.21	239.2	931.5	1170.7	0.017177	10.0272
43.0	28.3	271.65	240.6	930.5	1171.2	0.017189	9.8083
44.0	29.3	273.06	242.1	929.5	1171.6	0.017202	9.5991
45.0	30.3	274.44	243.5	928.6	1172.0	0.017214	9.3988
46.0	31.3	275.80	244.9	927.6	1172.5	0.017226	9.2070
47.0	32.3	277.14	246.2	926.6	1172.9	0.017238	9.0231
48.0	33.3	278.45	247.6	925.7	1173.3	0.017250	8.8465
49.0	34.3	279.74	248.9	924.8	1173.7	0.017262	8.6770
50.0	35.3	281.02	250.2	923.9	1174.1	0.017274	8.5140
51.0	36.3	282.27	251.5	923.0	1174.5	0.017285	8.3571
52.0	37.3	283.50	252.8	922.1	1174.9	0.017296	8.2061
53.0	38.3	284.71	254.0	921.2	1175.2	0.017307	8.0606
54.0	39.3	285.90	255.2	920.4	1175.6	0.017319	7.9203
55.0	40.3	287.08	256.4	919.5	1175.9	0.017329	7.7850
56.0	41.3	288.24	257.6	918.7	1176.3	0.017340	7.6543
57.0	42.3	289.38	258.8	917.8	1176.6	0.017351	7.5280
58.0	43.3	290.50	259.9	917.0	1177.0	0.017362	7.4059
59.0	44.3	291.62	261.1	916.2	1177.3	0.017372	7.2879
60.0	45.3	292.71	262.2	915.4	1177.6	0.017383	7.1736
61.0	46.3	293.79	263.3	914.6	1177.9	0.017393	7.0630
62.0	47.3	294.86	264.4	913.8	1178.2	0.017403	6.9558
63.0	48.3	295.91	265.5	913.0	1178.6	0.017413	6.8519
64.0	49.3	296.95	266.6	912.3	1178.9	0.017423	6.7511
65.0	50.3	297.98	267.6	911.5	1179.1	0.017433	6.6533
66.0	51.3	298.99	268.7	910.8	1179.4	0.017443	6.5584
67.0	52.3	299.99	269.7	910.0	1179.7	0.017453	6.4662
68.0	53.3	300.99	270.7	909.3	1180.0	0.017463	6.3767
69.0	54.3	301.96	271.7	908.5	1180.3	0.017472	6.2896
70.0	55.3	302.93	272.7	907.8	1180.6	0.017482	6.2050
71.0	56.3	303.89	273.7	907.1	1180.8	0.017491	6.1226
72.0	57.3	304.83	274.7	906.4	1181.1	0.017501	6.0425
73.0	58.3	305.77	275.7	905.7	1181.4	0.017510	5.9645
74.0	59.3	306.69	276.6	905.0	1181.6	0.017519	5.8885
75.0	60.3	307.61	277.6	904.3	1181.9	0.017529	5.8144
76.0	61.3	308.51	278.5	903.6	1182.1	0.017538	5.7423
77.0	62.3	309.41	279.4	902.9	1182.4	0.017547	5.6720
78.0	63.3	310.29	280.3	902.3	1182.6	0.017556	5.6034
79.0	64.3	311.17	281.3	901.6	1182.8	0.017565	5.5364
80.0	65.3	312.04	282.1	900.9	1183.1	0.017573	5.4711
81.0	66.3	312.90	283.0	900.3	1183.3	0.017582	5.4074
82.0	67.3	313.75	283.9	899.6	1183.5	0.017591	5.3451
83.0	68.3	314.60	284.8	899.0	1183.8	0.017600	5.2843
84.0	69.3	315.43	285.7	898.3	1184.0	0.017608	5.2249
85.0	70.3	316.26	286.5	897.7	1184.2	0.017617	5.1669
86.0	71.3	317.08	287.4	897.0	1184.4	0.017625	5.1101
87.0	72.3	317.89	288.2	896.4	1184.6	0.017634	5.0546
88.0	73.3	318.69	289.0	895.8	1184.8	0.017642	5.0004
89.0	74.3	319.49	289.9	895.2	1185.0	0.017651	4.9473
90.0	75.3	320.28	290.7	894.6	1185.3	0.017659	4.8953
91.0	76.3	321.06	291.5	893.9	1185.5	0.017667	4.8445
92.0	77.3	321.84	292.3	893.3	1185.7	0.017675	4.7947
93.0	78.3	322.61	293.1	892.7	1185.9	0.017684	4.7459
94.0	79.3	323.37	293.9	892.1	1186.0	0.017692	4.6981
95.0	80.3	324.13	294.7	891.5	1186.2	0.017700	4.6514
96.0	81.3	324.88	295.5	891.0	1186.4	0.017708	4.6055
97.0	82.3	325.63	296.3	890.4	1186.6	0.017716	4.5606
98.0	83.3	326.36	297.0	889.8	1186.8	0.017724	4.5166
99.0	84.3	327.10	297.8	889.2	1187.0	0.017732	4.4734
100.0	85.3	327.82	298.5	888.6	1187.2	0.017740	4.4310
101.0	86.3	328.54	299.3	888.1	1187.3	0.01775	4.3895
102.0	87.3	329.26	300.0	887.5	1187.5	0.01776	4.3487
103.0	88.3	329.97	300.8	886.9	1187.7	0.01776	4.3087
104.0	89.3	330.67	301.5	886.4	1187.9	0.01777	4.2695
105.0	90.3	331.37	302.2	885.8	1188.0	0.01778	4.2309
106.0	91.3	332.06	303.0	885.2	1188.2	0.01779	4.1931
107.0	92.3	332.75	303.7	884.7	1188.4	0.01779	4.1560
108.0	93.3	333.44	304.4	884.1	1188.5	0.01780	4.1195
109.0	94.3	334.11	305.1	883.6	1188.7	0.01781	4.0837

Properties of Saturated Steam and Saturated Water—continued

Pressure Lbs. per Sq. In.		Temperature	Heat of the Liquid	Latent Heat of Evaporation	Total Heat of Steam	Specific Volume $\overline{V}$	
Absolute P'	Gage P	t			h_g	Water	Steam
		Degrees F.	Btu/lb.	Btu/lb.	Btu/lb.	Cu. ft. per lb.	Cu. ft. per lb.
110.0	95.3	334.79	305.8	883.1	1188.9	0.01782	4.0484
111.0	96.3	335.46	306.5	882.5	1189.0	0.01782	4.0138
112.0	97.3	336.12	307.2	882.0	1189.2	0.01783	3.9798
113.0	98.3	336.78	307.9	881.4	1189.3	0.01784	3.9464
114.0	99.3	337.43	308.6	880.9	1189.5	0.01785	3.9136
115.0	100.3	338.08	309.3	880.4	1189.6	0.01785	3.8813
116.0	101.3	338.73	309.9	879.9	1189.8	0.01786	3.8495
117.0	102.3	339.37	310.6	879.3	1189.9	0.01787	3.8183
118.0	103.3	340.01	311.3	878.8	1190.1	0.01787	3.7875
119.0	104.3	340.64	311.9	878.3	1190.2	0.01788	3.7573
120.0	105.3	341.27	312.6	877.8	1190.4	0.01789	3.7275
121.0	106.3	341.89	313.2	877.3	1190.5	0.01790	3.6983
122.0	107.3	342.51	313.9	876.8	1190.7	0.01790	3.6695
123.0	108.3	343.13	314.5	876.3	1190.8	0.01791	3.6411
124.0	109.3	343.74	315.2	875.8	1190.9	0.01792	3.6132
125.0	110.3	344.35	315.8	875.3	1191.1	0.01792	3.5857
126.0	111.3	344.95	316.4	874.8	1191.2	0.01793	3.5586
127.0	112.3	345.55	317.1	874.3	1191.3	0.01794	3.5320
128.0	113.3	346.15	317.7	873.8	1191.5	0.01794	3.5057
129.0	114.3	346.74	318.3	873.3	1191.6	0.01795	3.4799
130.0	115.3	347.33	319.0	872.8	1191.7	0.01796	3.4544
131.0	116.3	347.92	319.6	872.3	1191.9	0.01797	3.4293
132.0	117.3	348.50	320.2	871.8	1192.0	0.01797	3.4046
133.0	118.3	349.08	320.8	871.3	1192.1	0.01798	3.3802
134.0	119.3	349.65	321.4	870.8	1192.2	0.01799	3.3562
135.0	120.3	350.23	322.0	870.4	1192.4	0.01799	3.3325
136.0	121.3	350.79	322.6	869.9	1192.5	0.01800	3.3091
137.0	122.3	351.36	323.2	869.4	1192.6	0.01801	3.2861
138.0	123.3	351.92	323.8	868.9	1192.7	0.01801	3.2634
139.0	124.3	352.48	324.4	868.5	1192.8	0.01802	3.2411
140.0	125.3	353.04	325.0	868.0	1193.0	0.01803	3.2190
141.0	126.3	353.59	325.5	867.5	1193.1	0.01803	3.1972
142.0	127.3	354.14	326.1	867.1	1193.2	0.01804	3.1757
143.0	128.3	354.69	326.7	866.6	1193.3	0.01805	3.1546
144.0	129.3	355.23	327.3	866.2	1193.4	0.01805	3.1337
145.0	130.3	355.77	327.8	865.7	1193.5	0.01806	3.1130
146.0	131.3	356.31	328.4	865.2	1193.6	0.01806	3.0927
147.0	132.3	356.84	329.0	864.8	1193.8	0.01807	3.0726
148.0	133.3	357.38	329.5	864.3	1193.9	0.01808	3.0528
149.0	134.3	357.91	330.1	863.9	1194.0	0.01808	3.0332
150.0	135.3	358.43	330.6	863.4	1194.1	0.01809	3.0139
152.0	137.3	359.48	331.8	862.5	1194.3	0.01810	2.9760
154.0	139.3	360.51	332.8	861.6	1194.5	0.01812	2.9391
156.0	141.3	361.53	333.9	860.8	1194.7	0.01813	2.9031
158.0	143.3	362.55	335.0	859.9	1194.9	0.01814	2.8679
160.0	145.3	363.55	336.1	859.0	1195.1	0.01815	2.8336
162.0	147.3	364.54	337.1	858.2	1195.3	0.01817	2.8001
164.0	149.3	365.53	338.2	857.3	1195.5	0.01818	2.7674
166.0	151.3	366.50	339.2	856.5	1195.7	0.01819	2.7355
168.0	153.3	367.47	340.2	855.6	1195.8	0.01820	2.7043
170.0	155.3	368.42	341.2	854.8	1196.0	0.01821	2.6738
172.0	157.3	369.37	342.2	853.9	1196.2	0.01823	2.6440
174.0	159.3	370.31	343.2	853.1	1196.4	0.01824	2.6149
176.0	161.3	371.24	344.2	852.3	1196.5	0.01825	2.5864
178.0	163.3	372.16	345.2	851.5	1196.7	0.01826	2.5585
180.0	165.3	373.08	346.2	850.7	1196.9	0.01827	2.5312
182.0	167.3	373.98	347.2	849.9	1197.0	0.01828	2.5045
184.0	169.3	374.88	348.1	849.1	1197.2	0.01830	2.4783
186.0	171.3	375.77	349.1	848.3	1197.3	0.01831	2.4527
188.0	173.3	376.65	350.0	847.5	1197.5	0.01832	2.4276
190.0	175.3	377.53	350.9	846.7	1197.6	0.01833	2.4030
192.0	177.3	378.40	351.9	845.9	1197.8	0.01834	2.3790
194.0	179.3	379.26	352.8	845.1	1197.9	0.01835	2.3554
196.0	181.3	380.12	353.7	844.4	1198.1	0.01836	2.3322
198.0	183.3	380.96	354.6	843.6	1198.2	0.01838	2.3095
200.0	185.3	381.80	355.5	842.8	1198.3	0.01839	2.28728
205.0	190.3	383.88	357.7	840.9	1198.7	0.01841	2.23349
210.0	195.3	385.91	359.9	839.1	1199.0	0.01844	2.18217
215.0	200.3	387.91	362.1	837.2	1199.3	0.01847	2.13315
220.0	205.3	389.88	364.2	835.4	1199.6	0.01850	2.08629
225.0	210.3	391.80	366.2	833.6	1199.9	0.01852	2.04143
230.0	215.3	393.70	368.3	831.8	1200.1	0.01855	1.99846
235.0	220.3	395.56	370.3	830.1	1200.4	0.01857	1.95725
240.0	225.3	397.39	372.3	828.4	1200.6	0.01860	1.91769
245.0	230.3	399.19	374.2	826.6	1200.9	0.01863	1.87970

Properties of Saturated Steam and Saturated Water—concluded

Pressure Lbs. per Sq. In.		Temperature	Heat of the Liquid	Latent Heat of Evaporation	Total Heat of Steam	Specific Volume $\overline{V}$	
Absolute P'	Gage P	t			h_g	Water	Steam
		Degrees F.	Btu/lb.	Btu/lb.	Btu/lb.	Cu. ft. per lb.	Cu. ft. per lb.
250.0	235.3	400.97	376.1	825.0	1201.1	0.01865	1.84317
255.0	240.3	402.72	378.0	823.3	1201.3	0.01868	1.80802
260.0	245.3	404.44	379.9	821.6	1201.5	0.01870	1.77418
265.0	250.3	406.13	381.7	820.0	1201.7	0.01873	1.74157
270.0	255.3	407.80	383.6	818.3	1201.9	0.01875	1.71013
275.0	260.3	409.45	385.4	816.7	1202.1	0.01878	1.67978
280.0	265.3	411.07	387.1	815.1	1202.3	0.01880	1.65049
285.0	270.3	412.67	388.9	813.6	1202.4	0.01882	1.62218
290.0	275.3	414.25	390.6	812.0	1202.6	0.01885	1.59482
295.0	280.3	415.81	392.3	810.4	1202.7	0.01887	1.56835
300.0	285.3	417.35	394.0	808.9	1202.9	0.01889	1.54274
320.0	305.3	423.31	400.5	802.9	1203.4	0.01899	1.44801
340.0	325.3	428.99	406.8	797.0	1203.8	0.01908	1.36405
360.0	345.3	434.41	412.8	791.3	1204.1	0.01917	1.28910
380.0	365.3	439.61	418.6	785.8	1204.4	0.01925	1.22177
400.0	385.3	444.60	424.2	780.4	1204.6	0.01934	1.16095
420.0	405.3	449.40	429.6	775.2	1204.7	0.01942	1.10573
440.0	425.3	454.03	434.8	770.0	1204.8	0.01950	1.05535
460.0	445.3	458.50	439.8	765.0	1204.8	0.01959	1.00921
480.0	465.3	462.82	444.7	760.0	1204.8	0.01967	0.96677
500.0	485.3	467.01	449.5	755.1	1204.7	0.01975	0.92762
520.0	505.3	471.07	454.2	750.4	1204.5	0.01982	0.89137
540.0	525.3	475.01	458.7	745.7	1204.4	0.01990	0.85771
560.0	545.3	478.84	463.1	741.0	1204.2	0.01998	0.82637
580.0	565.3	482.57	467.5	736.5	1203.9	0.02006	0.79712
600.0	585.3	486.20	471.7	732.0	1203.7	0.02013	0.76975
620.0	605.3	489.74	475.8	727.5	1203.4	0.02021	0.74408
640.0	625.3	493.19	479.9	723.1	1203.0	0.02028	0.71995
660.0	645.3	496.57	483.9	718.8	1202.7	0.02036	0.69724
680.0	665.3	499.86	487.8	714.5	1202.3	0.02043	0.67581
700.0	685.3	503.08	491.6	710.2	1201.8	0.02050	0.65556
720.0	705.3	506.23	495.4	706.0	1201.4	0.02058	0.63639
740.0	725.3	509.32	499.1	701.9	1200.9	0.02065	0.61822
760.0	745.3	512.34	502.7	697.7	1200.4	0.02072	0.60097
780.0	765.3	515.30	506.3	693.6	1199.9	0.02080	0.58457
800.0	785.3	518.21	509.8	689.6	1199.4	0.02087	0.56896
820.0	805.3	521.06	513.3	685.5	1198.8	0.02094	0.55408
840.0	825.3	523.86	516.7	681.5	1198.2	0.02101	0.53988
860.0	845.3	526.60	520.1	677.6	1197.7	0.02109	0.52631
880.0	865.3	529.30	523.4	673.6	1197.0	0.02116	0.51333
900.0	885.3	531.95	526.7	669.7	1196.4	0.02123	0.50091
920.0	905.3	534.56	530.0	665.8	1195.7	0.02130	0.48901
940.0	925.3	537.13	533.2	661.9	1195.1	0.02137	0.47759
960.0	945.3	539.65	536.3	658.0	1194.4	0.02145	0.46662
980.0	965.3	542.14	539.5	654.2	1193.7	0.02152	0.45609
1000.0	985.3	544.58	542.6	650.4	1192.9	0.02159	0.44596
1050.0	1035.3	550.53	550.1	640.9	1191.0	0.02177	0.42224
1100.0	1085.3	556.28	557.5	631.5	1189.1	0.02195	0.40058
1150.0	1135.3	561.82	564.8	622.2	1187.0	0.02214	0.38073
1200.0	1185.3	567.19	571.9	613.0	1184.8	0.02232	0.36245
1250.0	1235.3	572.38	578.8	603.8	1182.6	0.02250	0.34556
1300.0	1285.3	577.42	585.6	594.6	1180.2	0.02269	0.32991
1350.0	1335.3	582.32	592.2	585.6	1177.8	0.02288	0.31536
1400.0	1385.3	587.07	598.8	576.5	1175.3	0.02307	0.30178
1450.0	1435.3	591.70	605.3	567.6	1172.9	0.02327	0.28909
1500.0	1485.3	596.20	611.7	558.4	1170.1	0.02346	0.27719
1600.0	1585.3	604.87	624.2	540.3	1164.5	0.02387	0.25545
1700.0	1685.3	613.13	636.5	522.2	1158.6	0.02428	0.23607
1800.0	1785.3	621.02	648.5	503.8	1152.3	0.02472	0.21861
1900.0	1885.3	628.56	660.4	485.2	1145.6	0.02517	0.20278
2000.0	1985.3	635.80	672.1	466.2	1138.3	0.02565	0.18831
2100.0	2085.3	642.76	683.8	446.7	1130.5	0.02615	0.17501
2200.0	2185.3	649.45	695.5	426.7	1122.2	0.02669	0.16272
2300.0	2285.3	655.89	707.2	406.0	1113.2	0.02727	0.15133
2400.0	2385.3	662.11	719.0	384.8	1103.7	0.02790	0.14076
2500.0	2485.3	668.11	731.7	361.6	1093.3	0.02859	0.13068
2600.0	2585.3	673.91	744.5	337.6	1082.0	0.02938	0.12110
2700.0	2685.3	679.53	757.3	312.3	1069.7	0.03029	0.11194
2800.0	2785.3	684.96	770.7	285.1	1055.8	0.03134	0.10305
2900.0	2885.3	690.22	785.1	254.7	1039.8	0.03262	0.09420
3000.0	2985.3	695.33	801.8	218.4	1020.3	0.03428	0.08500
3100.0	3085.3	700.28	824.0	169.3	993.3	0.03681	0.07452
3200.0	3185.3	705.08	875.5	56.1	931.6	0.04472	0.05663
3208.2	3193.5	705.47	906.0	0.0	906.0	0.05078	0.05078

Properties of Superheated Steam*

$\overline{V}$ = specific volume, cubic feet per pound
h_g = total heat of steam, Btu per pound

Pressure Lbs. per Sq. In. Abs. P'	Pressure Lbs. per Sq. In. Gage P	Sat. Temp. t		Total Temperature—Degrees Fahrenheit (t) 350°	400°	500°	600°	700°	800°	900°	1000°	1100°	1300°	1500°
15.0	0.3	213.03	$\overline{V}$	31.939	33.963	37.985	41.986	45.978	49.964	53.946	57.926	61.905	69.858	77.807
			h_g	1216.2	1239.9	1287.3	1335.2	1383.8	1433.2	1483.4	1534.5	1586.5	1693.2	1803.4
20.0	5.3	227.96	$\overline{V}$	23.900	25.428	28.457	31.466	34.465	37.458	40.447	43.435	46.420	52.388	58.352
			h_g	1215.4	1239.2	1286.9	1334.9	1383.5	1432.9	1483.2	1534.3	1586.3	1693.1	1803.3
30.0	15.3	250.34	$\overline{V}$	15.859	16.892	18.929	20.945	22.951	24.952	26.949	28.943	30.936	34.918	38.896
			h_g	1213.6	1237.8	1286.0	1334.2	1383.0	1432.5	1482.8	1534.0	1586.1	1692.9	1803.2
40.0	25.3	267.25	$\overline{V}$	11.838	12.624	14.165	15.685	17.195	18.699	20.199	21.697	23.194	26.183	29.168
			h_g	1211.7	1236.4	1285.0	1333.6	1382.5	1432.1	1482.5	1533.7	1585.8	1692.7	1803.0
50.0	35.3	281.02	$\overline{V}$	9.424	10.062	11.306	12.529	13.741	14.947	16.150	17.350	18.549	20.942	23.332
			h_g	1209.9	1234.9	1284.1	1332.9	1382.0	1431.7	1482.2	1533.4	1585.6	1692.5	1802.9
60.0	45.3	292.71	$\overline{V}$	7.815	8.354	9.400	10.425	11.438	12.446	13.450	14.452	15.452	17.448	19.441
			h_g	1208.0	1233.5	1283.2	1332.3	1381.5	1431.3	1481.8	1533.2	1585.3	1692.4	1802.8
70.0	55.3	302.93	$\overline{V}$	6.664	7.133	8.039	8.922	9.793	10.659	11.522	12.382	13.240	14.952	16.661
			h_g	1206.0	1232.0	1282.2	1331.6	1381.0	1430.9	1481.5	1532.9	1585.1	1692.2	1802.6
80.0	65.3	312.04	$\overline{V}$	5.801	6.218	7.018	7.794	8.560	9.319	10.075	10.829	11.581	13.081	14.577
			h_g	1204.0	1230.5	1281.3	1330.9	1380.5	1430.5	1481.1	1532.6	1584.9	1692.0	1802.5
90.0	75.3	320.28	$\overline{V}$	5.128	5.505	6.223	6.917	7.600	8.277	8.950	9.621	10.290	11.625	12.956
			h_g	1202.0	1228.9	1280.3	1330.2	1380.0	1430.1	1480.8	1532.3	1584.6	1691.8	1802.4
100.0	85.3	327.82	$\overline{V}$	4.590	4.935	5.588	6.216	6.833	7.443	8.050	8.655	9.258	10.460	11.659
			h_g	1199.9	1227.4	1279.3	1329.6	1379.5	1429.7	1480.4	1532.0	1584.4	1691.6	1802.2
120.0	105.3	341.27	$\overline{V}$	3.7815	4.0786	4.6341	5.1637	5.6813	6.1928	6.7006	7.2060	7.7096	8.7130	9.7130
			h_g	1195.6	1224.1	1277.4	1328.2	1378.4	1428.8	1479.8	1531.4	1583.9	1691.3	1802.0
140.0	125.3	353.04	$\overline{V}$	...	3.4661	3.9526	4.4119	4.8588	5.2995	5.7364	6.1709	6.6036	7.4652	8.3233
			h_g	...	1220.8	1275.3	1326.8	1377.4	1428.0	1479.1	1530.8	1583.4	1690.9	1801.7
160.0	145.3	363.55	$\overline{V}$	...	3.0060	3.4413	3.8480	4.2420	4.6295	5.0132	5.3945	5.7741	6.5293	7.2811
			h_g	...	1217.4	1273.3	1325.4	1376.4	1427.2	1478.4	1530.3	1582.9	1690.5	1801.4
180.0	165.3	373.08	$\overline{V}$	...	2.6474	3.0433	3.4093	3.7621	4.1084	4.4508	4.7907	5.1289	5.8014	6.4704
			h_g	...	1213.8	1271.2	1324.0	1375.3	1426.3	1477.7	1529.7	1582.4	1690.2	1801.2
200.0	185.3	381.80	$\overline{V}$	...	2.3598	2.7247	3.0583	3.3783	3.6915	4.0008	4.3077	4.6128	5.2191	5.8219
			h_g	...	1210.1	1269.0	1322.6	1374.3	1425.5	1477.0	1529.1	1581.9	1689.8	1800.9
220.0	205.3	389.88	$\overline{V}$	...	2.1240	2.4638	2.7710	3.0642	3.3504	3.6327	3.9125	4.1905	4.7426	5.2913
			h_g	...	1206.3	1266.9	1321.2	1373.2	1424.7	1476.3	1528.5	1581.4	1689.4	1800.6
240.0	225.3	397.39	$\overline{V}$	...	1.9268	2.2462	2.5316	2.8024	3.0661	3.3259	3.5831	3.8385	4.3456	4.8492
			h_g	...	1202.4	1264.6	1319.7	1372.1	1423.8	1475.6	1527.9	1580.9	1689.1	1800.4
260.0	245.3	404.44	$\overline{V}$	...	...	2.0619	2.3289	2.5808	2.8256	3.0663	3.3044	3.5408	4.0097	4.4750
			h_g	...	...	1262.4	1318.2	1371.1	1423.0	1474.9	1527.3	1580.4	1688.7	1800.1
280.0	265.3	411.07	$\overline{V}$	...	...	1.9037	2.1551	2.3909	2.6194	2.8437	3.0655	3.2855	3.7217	4.1543
			h_g	...	...	1260.0	1316.8	1370.0	1422.1	1474.2	1526.8	1579.9	1688.4	1799.8
300.0	285.3	417.35	$\overline{V}$	...	...	1.7665	2.0044	2.2263	2.4407	2.6509	2.8585	3.0643	3.4721	3.8764
			h_g	...	...	1257.7	1315.2	1368.9	1421.3	1473.6	1526.2	1579.4	1688.0	1799.6
320.0	305.3	423.31	$\overline{V}$	...	...	1.6462	1.8725	2.0823	2.2843	2.4821	2.6774	2.8708	3.2538	3.6332
			h_g	...	...	1255.2	1313.7	1367.8	1420.5	1472.9	1525.6	1578.9	1687.6	1799.3
340.0	325.3	428.99	$\overline{V}$	...	...	1.5399	1.7561	1.9552	2.1463	2.3333	2.5175	2.7000	3.0611	3.4186
			h_g	...	...	1252.8	1312.2	1366.7	1419.6	1472.2	1525.0	1578.4	1687.3	1799.0
360.0	345.3	434.41	$\overline{V}$	...	...	1.4454	1.6525	1.8421	2.0237	2.2009	2.3755	2.5482	2.8898	3.2279
			h_g	...	...	1250.3	1310.6	1365.6	1418.7	1471.5	1542.4	1577.9	1686.9	1798.8

*Abstracted from ASME Steam Tables (1967) with permission of the publisher, the American Society of Mechanical Engineers, 345 East 47th Street, New York, N.Y. 10017.

(continued on the next page)

Properties of Superheated Steam — continued

$\overline{V}$ = specific volume, cubic feet per pound
h_g = total heat of steam, Btu per pound

Pressure Lbs. per Sq. In.		Sat. Temp.		Total Temperature—Degrees Fahrenheit (t)										
Abs. P'	Gage P	t		500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°
380.0	365.3	439.61	$\overline{V}$	1.3606	1.5598	1.7410	1.9139	2.0825	2.2484	2.4124	2.5750	2.7366	2.8973	3.0572
			h_g	1247.7	1309.0	1364.5	1417.9	1470.8	1523.8	1577.4	1631.6	1686.5	1742.2	1798.5
400.0	385.3	444.60	$\overline{V}$	1.2841	1.4763	1.6499	1.8151	1.9759	2.1339	2.2901	2.4450	2.5987	2.7515	2.9037
			h_g	1245.1	1307.4	1363.4	1417.0	1470.1	1523.3	1576.9	1631.2	1686.2	1741.9	1798.2
420.0	405.3	449.40	$\overline{V}$	1.2148	1.4007	1.5676	1.7258	1.8795	2.0304	2.1795	2.3273	2.4739	2.6196	2.7647
			h_g	1242.4	1305.8	1362.3	1416.2	1469.4	1522.7	1576.4	1630.8	1685.8	1741.6	1798.0
440.0	425.3	454.03	$\overline{V}$	1.1517	1.3319	1.4926	1.6445	1.7918	1.9363	2.0790	2.2203	2.3605	2.4998	2.6384
			h_g	1239.7	1304.2	1361.1	1415.3	1468.7	1522.1	1575.9	1630.4	1685.5	1741.2	1797.7
460.0	445.3	458.50	$\overline{V}$	1.0939	1.2691	1.4242	1.5703	1.7117	1.8504	1.9872	2.1226	2.2569	2.3903	2.5230
			h_g	1236.9	1302.5	1360.0	1414.4	1468.0	1521.5	1575.4	1629.9	1685.1	1740.9	1797.4
480.0	465.3	462.82	$\overline{V}$	1.0409	1.2115	1.3615	1.5023	1.6384	1.7716	1.9030	2.0330	2.1619	2.2900	2.4173
			h_g	1234.1	1300.8	1358.8	1413.6	1467.3	1520.9	1574.9	1629.5	1684.7	1740.6	1797.2
500.0	485.3	467.01	$\overline{V}$	0.9919	1.1584	1.3037	1.4397	1.5708	1.6992	1.8256	1.9507	2.0746	2.1977	2.3200
			h_g	1231.2	1299.1	1357.7	1412.7	1466.6	1520.3	1574.4	1629.1	1684.4	1740.3	1796.9
520.0	505.3	471.07	$\overline{V}$	0.9466	1.1094	1.2504	1.3819	1.5085	1.6323	1.7542	1.8746	1.9940	2.1125	2.2302
			h_g	1228.3	1297.4	1356.5	1411.8	1465.9	1519.7	1573.9	1628.7	1684.0	1740.0	1796.7
540.0	525.3	475.01	$\overline{V}$	0.9045	1.0640	1.2010	1.3284	1.4508	1.5704	1.6880	1.8042	1.9193	2.0336	2.1471
			h_g	1225.3	1295.7	1355.3	1410.9	1465.1	1519.1	1573.4	1628.2	1683.6	1739.7	1796.4
560.0	545.3	478.84	$\overline{V}$	0.8653	1.0217	1.1552	1.2787	1.3972	1.5129	1.6266	1.7388	1.8500	1.9603	2.0699
			h_g	1222.2	1293.9	1354.2	1410.0	1464.4	1518.6	1572.9	1627.8	1683.3	1739.4	1796.1
580.0	565.3	482.57	$\overline{V}$	0.8287	0.9824	1.1125	1.2324	1.3473	1.4593	1.5693	1.6780	1.7855	1.8921	1.9980
			h_g	1219.1	1292.1	1353.0	1409.2	1463.7	1518.0	1572.4	1627.4	1682.9	1739.1	1795.9
600.0	585.3	486.20	$\overline{V}$	0.7944	0.9456	1.0726	1.1892	1.3008	1.4093	1.5160	1.6211	1.7252	1.8284	1.9309
			h_g	1215.9	1290.3	1351.8	1408.3	1463.0	1517.4	1571.9	1627.0	1682.6	1738.8	1795.6
650.0	635.3	494.89	$\overline{V}$	0.7173	0.8634	0.9835	1.0929	1.1969	1.2979	1.3969	1.4944	1.5909	1.6864	1.7813
			h_g	1207.6	1285.7	1348.7	1406.0	1461.2	1515.9	1570.7	1625.9	1681.6	1738.0	1794.9
700.0	685.3	503.08	$\overline{V}$	...	0.7928	0.9072	1.0102	1.1078	1.2023	1.2948	1.3858	1.4757	1.5647	1.6530
			h_g	...	1281.0	1345.6	1403.7	1459.4	1514.4	1569.4	1624.8	1680.7	1737.2	1794.3
750.0	735.3	510.84	$\overline{V}$	...	0.7313	0.8409	0.9386	1.0306	1.1195	1.2063	1.2916	1.3759	1.4592	1.5419
			h_g	...	1276.1	1342.5	1401.5	1457.6	1512.9	1568.2	1623.8	1679.8	1736.4	1793.6
800.0	785.3	518.21	$\overline{V}$	...	0.6774	0.7828	0.8759	0.9631	1.0470	1.1289	1.2093	1.2885	1.3669	1.4446
			h_g	...	1271.1	1339.3	1399.1	1455.8	1511.4	1566.9	1622.7	1678.9	1735.7	1792.9
850.0	835.3	525.24	$\overline{V}$	...	0.6296	0.7315	0.8205	0.9034	0.9830	1.0606	1.1366	1.2115	1.2855	1.3588
			h_g	...	1265.9	1336.0	1396.8	1454.0	1510.0	1565.7	1621.6	1678.0	1734.9	1792.3
900.0	885.3	531.95	$\overline{V}$	...	0.5869	0.6858	0.7713	0.8504	0.9262	0.9998	1.0720	1.1430	1.2131	1.2825
			h_g	...	1260.6	1332.7	1394.4	1452.2	1508.5	1564.4	1620.6	1677.1	1734.1	1791.6
950.0	935.3	538.39	$\overline{V}$	...	0.5485	0.6449	0.7272	0.8030	0.8753	0.9455	1.0142	1.0817	1.1484	1.2143
			h_g	...	1255.1	1329.3	1392.0	1450.3	1507.0	1563.2	1619.5	1676.2	1733.3	1791.0
1000.0	985.3	544.58	$\overline{V}$	...	0.5137	0.6080	0.6875	0.7603	0.8295	0.8966	0.9622	1,0266	1.0901	1.1529
			h_g	...	1249.3	1325.9	1389.6	1448.5	1505.4	1561.9	1618.4	1675.3	1732.5	1790.3
1050.0	1035.3	550.53	$\overline{V}$	...	0.4821	0.5745	0.6515	0.7216	0.7881	0.8524	0.9151	0.9767	1.0373	1.0973
			h_g	...	1243.4	1322.4	1387.2	1446.6	1503.9	1560.7	1617.4	1674.4	1731.8	1789.6
1100.0	1085.3	556.28	$\overline{V}$	...	0.4531	0.5440	0.6188	0.6865	0.7505	0.8121	0.8723	0.9313	0.9894	1.0468
			h_g	...	1237.3	1318.8	1384.7	1444.7	1502.4	1559.4	1616.3	1673.5	1731.0	1789.0
1150.0	1135.3	561.82	$\overline{V}$	...	0.4263	0.5162	0.5889	0.6544	0.7161	0.7754	0.8332	0.8899	0.9456	1.0007
			h_g	...	1230.9	1315.2	1382.2	1442.8	1500.9	1558.1	1615.2	1672.6	1730.2	1788.3

Properties of Superheated Steam — concluded

$\overline{V}$ = specific volume, cubic feet per pound
h_g = total heat of steam, Btu per pound

Pressure Lbs. per Sq. In.		Sat. Temp.		Total Temperature—Degrees Fahrenheit (t)										
Abs. P'	Gage P	t		650°	700°	750°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°
1200.0	1185.3	567.19	$\overline{V}$	0.4497	0.4905	0.5273	0.5615	0.6250	0.6845	0.7418	0.7974	0.8519	0.9055	0.9584
			h_g	1271.8	1311.5	1346.9	1379.7	1440.9	1499.4	1556.9	1614.2	1671.6	1729.4	1787.6
1300.0	1285.3	577.42	$\overline{V}$	0.4052	0.4451	0.4804	0.5129	0.5729	0.6287	0.6822	0.7341	0.7847	0.8345	0.8836
			h_g	1261.9	1303.9	1340.8	1374.6	1437.1	1496.3	1554.3	1612.0	1669.8	1727.9	1786.3
1400.0	1385.3	587.07	$\overline{V}$	0.3667	0.4059	0.4400	0.4712	0.5282	0.5809	0.6311	0.6798	0.7272	0.7737	0.8195
			h_g	1251.4	1296.1	1334.5	1369.3	1433.2	1493.2	1551.8	1609.9	1668.0	1726.3	1785.0
1500.0	1485.3	596.20	$\overline{V}$	0.3328	0.3717	0.4049	0.4350	0.4894	0.5394	0.5869	0.6327	0.6773	0.7210	0.7639
			h_g	1240.2	1287.9	1328.0	1364.0	1429.2	1490.1	1549.2	1607.7	1666.2	1724.8	1783.7
1600.0	1585.3	604.87	$\overline{V}$	0.3026	0.3415	0.3741	0.4032	0.4555	0.5031	0.5482	0.5915	0.6336	0.6748	0.7153
			h_g	1228.3	1279.4	1321.4	1358.5	1425.2	1486.9	1546.6	1605.6	1664.3	1723.2	1782.3
1700.0	1685.3	613.13	$\overline{V}$	0.2754	0.3147	0.3468	0.3751	0.4255	0.4711	0.5140	0.5552	0.5951	0.6341	0.6724
			h_g	1215.3	1270.5	1314.5	1352.9	1421.2	1483.8	1544.0	1603.4	1662.5	1721.7	1781.0
1800.0	1785.3	621.02	$\overline{V}$	0.2505	0.2906	0.3223	0.3500	0.3988	0.4426	0.4836	0.5229	0.5609	0.5980	0.6343
			h_g	1201.2	1261.1	1307.4	1347.2	1417.1	1480.6	1541.4	1601.2	1660.7	1720.1	1779.7
1900.0	1885.3	628.56	$\overline{V}$	0.2274	0.2687	0.3004	0.3275	0.3749	0.4171	0.4565	0.4940	0.5303	0.5656	0.6002
			h_g	1185.7	1251.3	1300.2	1341.4	1412.9	1477.4	1538.8	1599.1	1658.8	1718.6	1778.4
2000.0	1985.3	635.80	$\overline{V}$	0.2056	0.2488	0.2805	0.3072	0.3534	0.3942	0.4320	0.4680	0.5027	0.5365	0.5695
			h_g	1168.3	1240.9	1292.6	1335.4	1408.7	1474.1	1536.2	1596.9	1657.0	1717.0	1777.1
2100.0	2085.3	642.76	$\overline{V}$	0.1847	0.2304	0.2624	0.2888	0.3339	0.3734	0.4099	0.4445	0.4778	0.5101	0.5418
			h_g	1148.5	1229.8	1284.9	1329.3	1404.4	1470.9	1533.6	1594.7	1655.2	1715.4	1775.7
2200.0	2185.3	649.45	$\overline{V}$	0.1636	0.2134	0.2458	0.2720	0.3161	0.3545	0.3897	0.4231	0.4551	0.4862	0.5165
			h_g	1123.9	1218.0	1276.8	1323.1	1400.0	1467.6	1530.9	1592.5	1653.3	1713.9	1774.4
2300.0	2285.3	655.89	$\overline{V}$	...	0.1975	0.2305	0.2566	0.2999	0.3372	0.3714	0.4035	0.4344	0.4643	0.4935
			h_g	...	1205.3	1268.4	1316.7	1395.7	1464.2	1528.3	1590.3	1651.5	1712.3	1773.1
2400.0	2385.3	662.11	$\overline{V}$	...	0.1824	0.2164	0.2424	0.2850	0.3214	0.3545	0.3856	0.4155	0.4443	0.4724
			h_g	...	1191.6	1259.7	1310.1	1391.2	1460.9	1525.6	1588.1	1649.6	1710.8	1771.8
2500.0	2485.3	668.11	$\overline{V}$	...	0.1681	0.2032	0.2293	0.2712	0.3068	0.3390	0.3692	0.3980	0.4259	0.4529
			h_g	...	1176.7	1250.6	1303.4	1386.7	1457.5	1522.9	1585.9	1647.8	1709.2	1770.4
2600.0	2585.3	673.91	$\overline{V}$	...	0.1544	0.1909	0.2171	0.2585	0.2933	0.3247	0.3540	0.3819	0.4088	0.4350
			h_g	...	1160.2	1241.1	1296.5	1382.1	1454.1	1520.2	1583.7	1646.0	1707.7	1769.1
2700.0	2685.3	679.53	$\overline{V}$	...	0.1411	0.1794	0.2058	0.2468	0.2809	0.3114	0.3399	0.3670	0.3931	0.4184
			h_g	...	1142.0	1231.1	1289.5	1377.5	1450.7	1517.5	1581.5	1644.1	1706.1	1767.8
2800.0	2785.3	684.96	$\overline{V}$	...	0.1278	0.1685	0.1952	0.2358	0.2693	0.2991	0.3268	0.3532	0.3785	0.4030
			h_g	...	1121.2	1220.6	1282.2	1372.8	1447.2	1514.8	1579.3	1642.2	1704.5	1766.5
2900.0	2885.3	690.22	$\overline{V}$	...	0.1138	0.1581	0.1853	0.2256	0.2585	0.2877	0.3147	0.3403	0.3649	0.3887
			h_g	...	1095.3	1209.6	1274.7	1368.0	1443.7	1512.1	1577.0	1640.4	1703.0	1765.2
3000.0	2985.3	695.33	$\overline{V}$	...	0.0982	0.1483	0.1759	0.2161	0.2484	0.2770	0.3033	0.3282	0.3522	0.3753
			h_g	...	1060.5	1197.9	1267.0	1363.2	1440.2	1509.4	1574.8	1638.5	1701.4	1763.8
3100.0	3085.3	700.28	$\overline{V}$	...	...	0.1389	0.1671	0.2071	0.2390	0.2670	0.2927	0.3170	0.3403	0.3628
			h_g	...	...	1185.4	1259.1	1358.4	1436.7	1506.6	1572.6	1636.7	1699.8	1762.5
3200.0	3185.3	705.08	$\overline{V}$	...	...	0.1300	0.1588	0.1987	0.2301	0.2576	0.2827	0.3065	0.3291	0.3510
			h_g	...	...	1172.3	1250.9	1353.4	1433.1	1503.8	1570.3	1634.8	1698.3	1761.2
3300.0	3285.3	...	$\overline{V}$	...	...	0.1213	0.1510	0.1908	0.2218	0.2488	0.2734	0.2966	0.3187	0.3400
			h_g	...	...	1158.2	1242.5	1348.4	1429.5	1501.0	1568.1	1623.9	1696.7	1759.9
3400.0	3385.3	...	$\overline{V}$	...	...	0.1129	0.1435	0.1834	0.2140	0.2405	0.2646	0.2872	0.3088	0.3296
			h_g	...	...	1143.2	1233.7	1343.4	1425.9	1498.3	1565.8	1631.1	1695.1	1758.5

Properties of Superheated Steam and Compressed Water*

$\overline{V}$ = specific volume, cubic feet per pound
h_g = total heat of steam, Btu per pound

Absolute Pressure Lbs. per Sq. In.		Total Temperature—Degrees Fahrenheit (t)												
		200°	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1300°	1400°	1500°
3500	$\overline{V}$	0.0164	0.0183	0.0199	0.0225	0.0307	0.1364	0.1764	0.2066	0.2326	0.2563	0.2784	0.2995	0.3198
	h_g	176.0	379.1	487.6	608.4	779.4	1224.6	1338.2	1422.2	1495.5	1563.6	1629.2	1693.6	1757.2
3600	$\overline{V}$	0.0164	0.0183	0.0198	0.0225	0.0302	0.1296	0.1697	0.1996	0.2252	0.2485	0.2702	0.2908	0.3106
	h_g	176.3	379.3	487.6	608.1	775.1	1215.3	1333.0	1418.6	1492.6	1561.3	1627.3	1692.0	1755.9
3800	$\overline{V}$	0.0164	0.0183	0.0198	0.0224	0.0294	0.1169	0.1574	0.1868	0.2116	0.2340	0.2549	0.2746	0.2936
	h_g	176.7	379.5	487.7	607.5	768.4	1195.5	1322.4	1411.2	1487.0	1556.8	1623.6	1688.9	1753.2
4000	$\overline{V}$	0.0164	0.0182	0.0198	0.0223	0.0287	0.1052	0.1463	0.1752	0.1994	0.2210	0.2411	0.2601	0.2783
	h_g	177.2	379.8	487.7	606.9	763.0	1174.3	1311.6	1403.6	1481.3	1552.2	1619.8	1685.7	1750.6
4200	$\overline{V}$	0.0164	0.0182	0.0197	0.0222	0.0282	0.0945	0.1362	0.1647	0.1883	0.2093	0.2287	0.2470	0.2645
	h_g	177.6	380.1	487.8	606.4	758.6	1151.6	1300.4	1396.0	1475.5	1547.6	1616.1	1682.6	1748.0
4400	$\overline{V}$	0.0164	0.0182	0.0197	0.0222	0.0278	0.0846	0.1270	0.1552	0.1782	0.1986	0.2174	0.2351	0.2519
	h_g	178.1	380.4	487.9	605.9	754.8	1127.3	1289.0	1388.3	1469.7	1543.0	1612.3	1679.4	1745.3
4600	$\overline{V}$	0.0164	0.0182	0.0197	0.0221	0.0274	0.0751	0.1186	0.1465	0.1691	0.1889	0.2071	0.2242	0.2404
	h_g	178.5	380.7	487.9	605.5	751.5	1100.0	1277.2	1380.5	1463.9	1538.4	1608.5	1676.3	1742.7
4800	$\overline{V}$	0.0164	0.0182	0.0196	0.0220	0.0271	0.0665	0.1109	0.1385	0.1606	0.1800	0.1977	0.2142	0.2299
	h_g	179.0	380.9	488.0	605.0	748.6	1071.2	1265.2	1372.6	1458.0	1533.8	1604.7	1673.1	1740.0
5200	$\overline{V}$	0.0164	0.0181	0.0196	0.0219	0.0265	0.0531	0.0973	0.1244	0.1458	0.1642	0.1810	0.1966	0.2114
	h_g	179.9	381.5	488.2	604.3	743.7	1016.9	1240.4	1356.6	1446.2	1524.5	1597.2	1666.8	1734.7
5600	$\overline{V}$	0.0163	0.0181	0.0195	0.0217	0.0260	0.0447	0.0856	0.1124	0.1331	0.1508	0.1667	0.1815	0.1954
	h_g	180.8	382.1	488.4	603.6	739.6	975.0	1214.8	1340.2	1434.3	1515.2	1589.6	1660.5	1729.5
6000	$\overline{V}$	0.0163	0.0180	0.0195	0.0216	0.0256	0.0397	0.0757	0.1020	0.1221	0.1391	0.1544	0.1684	0.1817
	h_g	181.7	382.7	488.6	602.9	736.1	945.1	1188.8	1323.6	1422.3	1505.9	1582.0	1654.2	1724.2
6500	$\overline{V}$	0.0163	0.0180	0.0194	0.0215	0.0252	0.0358	0.0655	0.0909	0.1104	0.1266	0.1411	0.1544	0.1669
	h_g	182.9	383.4	488.9	602.3	732.4	919.5	1156.3	1302.7	1407.3	1494.2	1572.5	1646.4	1717.6
7000	$\overline{V}$	0.0163	0.0180	0.0193	0.0213	0.0248	0.0334	0.0573	0.0816	0.1004	0.1160	0.1298	0.1424	0.1542
	h_g	184.0	384.2	489.3	601.7	729.3	901.8	1124.9	1281.7	1392.2	1482.6	1563.1	1638.6	1711.1
7500	$\overline{V}$	0.0163	0.0179	0.0193	0.0212	0.0245	0.0318	0.0512	0.0737	0.0918	0.1068	0.1200	0.1321	0.1433
	h_g	185.2	384.9	489.6	601.3	726.6	889.0	1097.7	1261.0	1377.2	1471.0	1553.7	1630.8	1704.6
8000	$\overline{V}$	0.0162	0.0179	0.0192	0.0211	0.0242	0.0306	0.0465	0.0671	0.0845	0.0989	0.1115	0.1230	0.1338
	h_g	186.3	385.7	490.0	600.9	724.3	879.1	1074.3	1241.0	1362.2	1459.6	1544.5	1623.1	1698.1
9000	$\overline{V}$	0.0162	0.0178	0.0191	0.0209	0.0237	0.0288	0.0402	0.0568	0.0724	0.0858	0.0975	0.1081	0.1179
	h_g	188.6	387.3	490.9	600.3	720.4	864.7	1037.6	1204.1	1333.0	1437.1	1526.3	1607.9	1685.3
10000	$\overline{V}$	0.0161	0.0177	0.0189	0.0207	0.0233	0.0276	0.0362	0.0495	0.0633	0.0757	0.0865	0.0963	0.1054
	h_g	190.9	388.9	491.8	600.0	717.5	854.5	1011.3	1172.6	1305.3	1415.3	1508.6	1593.1	1672.8
11000	$\overline{V}$	0.0161	0.0176	0.0188	0.0205	0.0229	0.0267	0.0335	0.0443	0.0562	0.0676	0.0776	0.0868	0.0952
	h_g	193.2	390.5	492.8	599.9	715.1	846.9	992.1	1146.3	1280.2	1394.4	1491.5	1578.7	1660.6
12000	$\overline{V}$	0.0161	0.0176	0.0187	0.0203	0.0226	0.0260	0.0317	0.0405	0.0508	0.0610	0.0704	0.0790	0.0869
	h_g	195.5	392.1	493.9	599.9	713.3	841.0	977.8	1124.5	1258.0	1374.7	1475.1	1564.9	1648.8
13000	$\overline{V}$	0.0160	0.0175	0.0186	0.0201	0.0223	0.0253	0.0302	0.0376	0.0466	0.0558	0.0645	0.0725	0.0799
	h_g	197.8	393.8	495.0	600.1	711.9	836.3	966.8	1106.7	1238.5	1356.5	1459.4	1551.6	1637.4
14000	$\overline{V}$	0.0160	0.0174	0.0185	0.0200	0.0220	0.0248	0.0291	0.0354	0.0432	0.0515	0.0595	0.0670	0.0740
	h_g	200.1	395.5	496.2	600.5	710.8	832.6	958.0	1092.3	1221.4	1340.2	1444.4	1538.8	1626.5
15000	$\overline{V}$	0.0159	0.0174	0.0184	0.0198	0.0218	0.0244	0.0282	0.0337	0.0405	0.0479	0.0552	0.0624	0.0690
	h_g	202.4	397.2	497.4	600.9	710.0	829.5	950.9	1080.6	1206.8	1326.0	1430.3	1526.4	1615.9
15500	$\overline{V}$	0.0159	0.0173	0.0184	0.0198	0.0217	0.0242	0.0278	0.0329	0.0393	0.0464	0.0534	0.0603	0.0668
	h_g	203.6	398.1	498.1	601.2	709.7	828.2	947.8	1075.7	1200.3	1319.6	1423.6	1520.4	1610.8

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