



BREWING AMERICA

CRAFT BREWING AND SUPPLIES

THE TRUE PERCENTS OF PROOF SPIRIT FOR ANY INDICATION OF THE HYDROMETER AT TEMPERATURES BETWEEN 0° AND 100°F.

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Conversion Table

Temp. (°F)	Temp. (°C)	Specific Gravity (20°C)	Alcohol % (v/v)
60	15.6	0.988	40.0
62	16.7	0.987	40.2
64	17.8	0.986	40.4
66	18.9	0.985	40.6
68	20.0	0.984	40.8
70	21.1	0.983	41.0
72	22.2	0.982	41.2
74	23.3	0.981	41.4
76	24.4	0.980	41.6
78	25.6	0.979	41.8
80	26.7	0.978	42.0
82	27.8	0.977	42.2
84	28.9	0.976	42.4
86	30.0	0.975	42.6
88	31.1	0.974	42.8
90	32.2	0.973	43.0
92	33.3	0.972	43.2
94	34.4	0.971	43.4
96	35.6	0.970	43.6
98	36.7	0.969	43.8
100	37.8	0.968	44.0

Note: Please handle with care.



Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	1 °	2 °	3 °	4 °	5 °	6 °	7 °	8 °	9 °	10 °
76	101.9	101.5	101.0	100.6	100.2	99.8	99.4	98.9	98.5	98.1
77	102.8	102.4	101.9	101.5	101.1	100.7	100.3	99.8	99.4	99.0
78	103.6	103.2	102.7	102.3	101.9	101.5	101.1	100.7	100.3	99.9
79	104.5	104.1	103.6	103.2	102.8	102.4	102.0	101.6	101.2	100.8
80	105.3	104.9	104.4	104.0	103.6	103.2	102.8	102.5	102.1	101.7
81	106.2	105.8	105.3	104.9	104.5	104.1	103.7	103.4	103.0	102.6
82	107.0	106.6	106.2	105.8	105.4	105.0	104.6	104.3	103.9	103.5
83	107.9	107.5	107.0	106.6	106.2	105.8	105.4	105.1	104.7	104.3
84	108.7	108.3	107.9	107.5	107.1	106.7	106.3	106.0	105.6	105.2
85	109.6	109.2	108.8	108.4	108.0	107.6	107.2	106.9	106.5	106.1
86	110.4	110.0	109.6	109.2	108.8	108.4	108.0	107.7	107.3	106.9
87	111.2	110.8	110.5	110.1	109.7	109.3	108.9	108.6	108.2	107.8
88	112.1	111.7	111.3	110.9	110.5	110.1	109.8	109.4	109.1	108.7
89	112.9	112.5	112.2	111.8	111.4	111.0	110.7	110.3	110.0	109.6
90	113.8	113.4	113.0	112.6	112.2	111.8	111.5	111.1	110.8	110.4
91	114.7	114.3	113.9	113.5	113.1	112.7	112.4	112.0	111.7	111.3
92	115.6	115.2	114.8	114.4	114.0	113.6	113.3	112.9	112.6	112.2
93	116.5	116.1	115.7	115.3	114.9	114.5	114.2	113.8	113.5	113.1
94	117.4	117.0	116.6	116.2	115.8	115.4	115.1	114.7	114.4	114.0
95	118.3	117.9	117.5	117.1	116.7	116.3	116.0	115.6	115.3	114.9
96	119.2	118.8	118.4	118.0	117.6	117.2	116.9	116.5	116.2	115.8
97	120.1	119.7	119.3	118.9	118.5	118.1	117.8	117.4	117.1	116.7
98	121.0	120.6	120.2	119.8	119.4	119.0	118.7	118.3	118.0	117.6
99	121.9	121.5	121.1	120.7	120.3	119.9	119.6	119.2	118.9	118.5
100	122.8	122.4	122.0	121.6	121.2	120.8	120.5	120.1	119.8	119.4
101	123.7	123.3	122.9	122.5	122.1	121.7	121.4	121.0	120.7	120.3
102	124.6	124.2	123.9	123.5	123.1	122.7	122.4	122.0	121.7	121.3
103	125.5	125.1	124.8	124.4	124.0	123.6	123.3	122.9	122.6	122.2
104	126.4	126.0	125.7	125.3	124.9	124.4	124.1	123.8	123.5	123.1
105	127.3	126.9	126.6	126.2	125.8	125.4	125.1	124.7	124.4	124.0
106	128.3	127.9	127.5	127.1	126.7	126.3	126.0	125.6	125.3	124.9
107	129.2	128.8	128.4	128.0	127.6	127.2	126.9	126.5	126.2	125.8
108	130.1	129.7	129.3	128.9	128.5	128.1	127.8	127.4	127.1	126.7
109	131.0	130.6	130.3	129.9	129.5	129.1	128.8	128.4	128.1	127.7
110	131.9	131.6	131.2	130.9	130.5	130.1	129.8	129.4	129.1	128.7
111	132.8	132.5	132.1	131.8	131.4	131.0	130.7	130.3	130.0	129.6
112	133.8	133.4	133.1	132.7	132.3	132.0	131.6	131.3	130.9	130.6
113	134.7	134.4	134.0	133.7	133.3	132.9	132.6	132.2	131.9	131.5
114	135.6	135.3	134.9	134.6	134.2	133.9	133.5	133.2	132.8	132.5
115	136.6	136.2	135.9	135.5	135.2	134.9	134.5	134.2	133.8	133.5
116	137.6	137.2	136.9	136.5	136.1	135.8	135.4	135.1	134.7	134.4

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	1 °	2°	3°	4°	5°	6°	7°	8°	9°	10°
117	138.5	138.1	137.8	137.4	137.1	136.8	136.4	136.1	135.7	135.4
118	139.4	139.0	138.7	138.3	138.0	137.7	137.3	137.0	136.6	136.3
119	140.4	140.0	139.7	139.3	139.0	138.7	138.3	138.0	137.6	137.3
120	141.3	140.9	140.6	140.2	139.9	139.6	139.2	138.9	138.5	138.2
121	142.2	141.9	141.5	141.2	140.9	140.6	140.2	139.9	139.5	139.2
122	143.1	142.8	142.4	142.1	141.8	141.5	141.1	140.8	140.4	140.1
123	144.1	143.8	143.4	143.1	142.8	142.5	142.1	141.8	141.4	141.1
124	145.0	144.7	144.3	144.0	143.7	143.4	143.0	142.7	142.3	142.0
125	145.9	145.6	145.3	145.0	144	144.4	144.0	143.7	143.3	143.0
126	146.9	146.6	146.2	145.9	145.0	145.3	144.9	144.6	144.2	143.9
127	147.8	147.5	147.1	146.8	146.5	146.2	145.8	145.5	145.1	144.8
128	148.7	148.4	148.0	147.7	147.4	147.1	146.7	146.4	146.0	145.7
129	149.6	149.3	148.9	148.6	148.3	148.0	147.7	147.3	147.0	146.7
130	150.6	150.3	149.9	149.6	149.3	149.0	148.6	148.3	147.9	147.6
131	151.5	151.2	150.8	150.5	150.2	149.9	149.5	149.2	148.8	148.5
132	152.4	152.1	151.7	151.4	151.1	150.8	150.4	150.1	149.7	149.4
133	153.3	153.0	152.6	152.3	152.0	151.7	151.4	151.0	150.7	150.4
134	154.2	153.9	153.6	153.3	153.0	152.7	152.3	152.0	151.6	151.3
135	155.2	154.9	154.5	154.2	153.9	153.6	153.2	152.9	152.5	152.2
136	156.1	155.8	155.4	155.1	154.8	154.5	154.1	153.8	153.4	153.1
137	157.1	156.8	156.4	156.1	155.8	155.5	155.1	154.8	154.4	154.1
138	158.0	157.7	157.3	157.0	156.7	156.4	156.0	155.7	155.3	155.0
139	158.9	158.6	158.2	157.9	157.6	157.3	156.9	156.6	156.2	155.9
140	159.8	159.5	159.1	158.8	158.5	158.2	157.9	157.5	157.2	156.9
141	160.8	160.5	160.1	159.8	159.5	159.2	158.8	158.5	158.1	157.8
142	161.7	161.4	161.0	160.7	160.4	160.1	159.7	159.4	159.0	158.7
143	162.6	162.3	161.9	161.6	161.3	161.0	160.7	160.3	160.0	159.7
144	163.6	163.2	162.\	162.5	162.2	161.9	161.6	161.2	160.9	160.6
145	164.5	164.2	163.8	163.5	163.2	162.9	162.6	162.2	161.9	161.6
146	165.3	165.0	164.7	164.4	164.1	163.8	163.5	163.1	162.8	162.5
147	166.2	165.9	165.6	165.3	165.0	164.7	164.4	164.0	163.7	163.4
148	167.1	166.8	166.5	166.2	165.9	165.6	165.3	164.9	164.6	164.3
149	168.0	167.7	167.4	167.1	166.8	166.5	166.2	165.9	165.6	165.3
150	168.9	168.6	168.3	168.0	167.7	167.4	167.1	166.8	166.5	166.2
151	169.8	169.5	169.2	168.9	168.6	168.3	168.0	167.7	167.4	167.1
152	170.7	170.4	170.1	169.8	169.5	169.2	168.9	168.6	168.3	168.0
153	171.6	171.3	171.0	170.7	170.4	170.1	169.8	169.5	169.2	168.9
154	172.5	172.2	171.9	171.6	171.3	171.0	170.7	170.4	170.1	169.8
155	173.3	173.1	172.8	172.6	172.3	172.0	171.7	171.3	171.0	170.7
156	174.2	174.0	173.7	173.5	173.2	172.9	172.6	172.2	171.9	171.6
157	175.1	174.9	174.6	174.4	174.1	173.8	173.5	173.2	172.9	172.6
158	176.0	175.8	175.5	175.3	175.0	174.7	174.4	174.1	173.8	173.5

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	1 °	2°	3°	4°	5°	6°	7°	8°	9°	10°
159	176.9	176.7	176.4	176.2	175.9	175.6	175.3	175.0	174.7	174.4
160	177.8	177.6	177.3	177.1	176.8	176.5	176.2	175.9	175.6	175.3
161	178.7	178.5	178.2	178.0	177.7	177.4	177.1	176.8	176.5	176.2
162	179.6	179.4	179.1	178. \	178.6	178.3	178.0	177.7	177.4	177.1
163	180.4	180.2	179.9	179.7	179.4	179.1	178.8	178.6	178.3	178.0
164	181.3	181.1	180.8	180.6	180.3	180.0	179.7	179.5	179.2	178.9
165	182.1	181.9	181.6	181.4	181.1	180.8	180.5	180.3	180.0	179.7
166	183.0	182.8	182.5	182.3	182.0	181.7	181.4	181.2	180.9	180.6
167	183.8	183.6	183.3	183.1	182.8	182.5	182.3	182.0	181.8	181.5
168	184.7	184.4	184.2	183. \	183.7	183.4	183.2	182.9	182.7	182.4
169	185.5	185.3	185.0	184.8	184.5	184.2	184.0	183.7	183.5	183.2
170	186.4	186.1	185.9	185.6	185.4	185.1	184.9	184.6	184.4	184.1
171	187.2	186.9	186.7	186.4	186.2	186.0	185.8	185.5	185.2	185.0
172	188.0	187.8	187.5	187.3	187.0	186.8	186.5	186.3	186.0	185.8
173	188.9	188.6	188.4	188.1	187.9	187.7	187.4	187.2	186.9	186.7
174	189.7	189.5	189.2	189.0	188.7	188.5	188.2	188.0	187.7	187.5
175	190.6	190.3	190.1	189.8	189.6	189.4	189.1	188.9	188.6	188.4
176	191.4	191.2	190.9	190.7	190.5	190.3	190.0	189.8	189.5	189.3
177	192.3	192.0	191.8	191.5	191.3	191.1	190.9	190.6	190.4	190.2
178	193.1	192.9	192.6	192.4	192.2	192.0	191.8	191.5	191.3	191.1
179	193.9	193.7	193.4	193.2	193.0	192.8	192.6	192.3	192.1	191.9
180	194.7	194.5	194.2	194.0	193.8	193.6	193.4	193.2	193.0	192.8
181	195.4	195.2	194.9	194.7	194.5	194.3	194.1	193.9	193.7	193.5
182	196.2	196.0	195.7	195.5	195.3	195.1	194.9	194.7	194.5	194.3
183	196.9	196.7	196.4	196.2	196.0	195.8	195.6	195.5	195.3	195.1
184	197.6	197.4	197.2	197.0	196.8	196.6	196.4	196.3	196.1	195.9
185	198.3	198.1	197.9	197.7	197.5	197.3	197.1	197.0	196.8	196.6
186	199.1	198.9	198.7	198.5	198.3	198.1	197.9	197.8	197.6	197.4
187	199.8	199.6	199.5	199.3	199.1	198.9	198.7	198.6	198.4	198.2
188	-----	-----	-----	200.0	199.8	199.6	199.4	199.3	199.1	198.9
189	-----	-----	-----	-----	-----	-----	-----	-----	199.9	199.7

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	11 °	12°	13°	14°	15°	16°	17°	18°	19°	20°
76	97.7	97.3	96.8	96.4	95	95.5	95	94.6	94.2	93.8
77	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95	95	94.7
78	99.5	99	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.6
79	100.4	100.0	99.5	99	98.6	98.2	97.8	97.3	96.0	96.5
80	101	100.9	100.4	100.0	99.5	99	98.7	98.2	97.8	97.4
81	102.2	101.8	101.3	100.9	100.5	100	99.6	99.0	98.0	98.3
82	103.0	102.7	102.2	101.8	101.4	101.0	100.5	100	99.6	99.2
83	103.9	103.5	103	102.7	102.3	101.9	101. b	101.0	100.6	100.2
84	104.8	104.4	104.0	103	103.2	102.8	102.4	101.9	101.5	101
85	105.0	105.3	104.9	104.5	104.1	103.7	103	102.8	102.4	102.0
86	106.5	106.1	105.8	105.4	105.0	104.6	104.2	103.7	103.3	102.9
87	107.4	107.0	106.7	106.3	105.9	105	105	104.6	104.2	103. 8
88	108.0	107.9	107.6	107.2	106	106	106.0	105.5	105	104.7
89	109.2	108.8	108.5	108.1	107.7	107.3	106.9	106.4	106.0	105.0
90	110	109.7	109.3	109.0	108.6	108.2	107.8	107.3	106.9	106. 5
91	110.9	110.6	110.2	109.9	109.5	109.1	108.7	108.2	107.8	107.4
92	111.8	111.5	111.1	110.8	110.4	110.0	109.6	109	108.7	108.2
93	112.7	112.4	112.0	111.7	111.3	110.9	110.5	110.0	109.6	109.2
94	113.6	113.3	112.9	112.6	112.2	111.8	111.4	111.0	110.6	110.2
95	114	114	113.8	113.5	113	112.7	112.3	111.9	111.5	111
96	115.4	115.1	114.7	114.4	114.0	113.6	113.2	112	112.4	112
97	116	116.0	115.6	115.3	114.9	114	114	113	113.3	112. 9
98	117.2	116.9	116.5	116.2	115.8	115.4	115.0	114.7	114.3	113
99	118.1	117.8	117	117	116.7	116.3	115.9	115	115.2	114. 8
100	119	11& 7	118.4	118.0	117.7	117.3	116	116	116	115.7
101	120.0	119.6	119.3	118	118	118.2	117.8	117.5	117	116. 7
102	120.9	120.6	120.2	119.9	119.5	119	118.7	118.4	118.0	117. 6
103	121.8	121	121	120.8	120.4	120.0	119	119	118	118.5
104	122	122.4	122.0	121	121.3	120.9	120.5	120.2	119.8	119. 4
105	123.6	123.3	122.9	122.6	122.2	121.8	121.4	121	120.7	120.3
106	124.5	124.2	123.8	123.5	123	122.7	122.4	122.0	121.7	121.3
107	125.5	125.1	124.8	124.4	124	123.7	123.3	123.0	122.6	122. 2
108	126.4	126.0	125.7	125.3	125.0	124.6	124.2	123.9	123.5	123. 1
109	127.4	127.0	126.7	126.3	126.0	125.6	125	124.9	124.5	124.1
110	128.3	128.0	127.6	127.3	126.9	126.5	126	125.8	125.4	125. 0
111	129.3	128.9	128.6	128.2	127.9	127.5	127	126.8	126.4	126. 0
112	130.3	129.9	129.6	129.2	128.9	128.5	128	127.8	127.4	127. 0
113	131.2	130.8	130.5	130	129.8	129.4	129.0	128.7	128.3	127.9
114	132.2	131.8	131.5	131	130.8	130.4	130.0	129.7	129.3	128.9
115	133.2	132.8	132.5	132	131.8	131.4	131.0	130.7	130.3	129.9
116	134.1	133.7	133.4	133.0	132.7	132.3	132.0	131.6	131.3	130. 9
117	135	134.7	134.4	134.0	133.7	133.3	132.9	132.6	132.2	131.8

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	11 °	12°	13°	14°	15°	16°	17°	18°	19°	20°
118	136.0	135.6	135.3	134.9	134.6	134.2	133	133.5	133.2	132.8
119	137.0	136.6	136.3	135.9	135.6	135.2	134.9	134.5	134.2	133.8
120	137.9	137.5	137.2	136.8	136.5	136	135.8	135.4	135.1	134.7
121	138.9	138.5	138.2	137.8	137.5	137.1	138.8	136.4	136.1	135.7
122	139.8	139.5	139	138.8	138.5	138	137.8	137.4	137.1	136.7
123	140.8	140.4	140	139.7	139.4	139.0	138.7	138.3	138.0	137.6
124	141	141.4	141.0	140.7	140.4	140.0	139.7	139.3	139.0	138.6
125	142.7	142.3	142.0	141.8	141.3	141.0	140.8	140.3	139.9	139.6
126	143.6	143.3	142.9	142.6	142.3	141.9	141.6	141.2	140.9	140.5
127	144.5	144.2	143.8	143.5	143.2	142.8	142.5	142.1	141.8	141.4
128	145.4	145.1	144.7	144.4	144.1	143.8	143.4	143.1	142.7	142.4
129	146.4	146.1	145.7	145.4	145.1	144.7	144.4	144.0	143.7	143.3
130	147.3	147.0	146.6	146.3	146.0	145.6	145.3	144.9	144.6	144.2
131	148.2	147.9	147.5	147.2	146.9	146.6	146.2	145.9	145.5	145.2
132	149.1	148.8	148.5	148.2	147.9	147.5	147.2	146.8	146.5	146.1
133	150.1	149.8	149.4	149.1	148.8	148.5	148.1	147.8	147.4	147.1
134	151.0	150.7	150.3	150.0	149.7	149.4	149.0	148.7	148.3	148.0
135	151.9	151.6	151.3	151.0	150.7	150.4	150.0	149.7	149.3	149.0
136	152.8	152.5	152.2	151.9	151.6	151.3	150.9	150.6	150.2	149.9
137	153.8	153.5	153.2	152.9	152.6	152.3	151.9	151.6	151.2	150.9
138	154.7	154.4	154.1	153.8	153.5	153.2	152.8	152.5	152.. 1	151.8
139	155.6	155.3	155.0	154.7	154.4	154.1	153.7	153.4	153.0	152.7
140	156.6	156.3	156.0	155.7	155.4	155.1	154.7	154.4	154.0	153.7
141	157.5	157.2	156.9	156.6	156.3	156.0	155.6	155.3	154.9	154.6
142	158.4	158.1	157.8	157.5	157.2	156.9	156.6	156.2	155.9	155.6
143	159.4	159.1	158.8	158.5	158.2	157.9	157.5	157.2	156.8	156.5
144	160.3	160.0	159.8	159.5	159.2	158.9	158.5	158.2	157.8	157.5
145	161.3	161.0	160.7	160.4	160.1	159.8	159.4	159.1	158.7	158.4
146	162.2	161.9	161.6	161.3	161.0	160.7	160.4	160.0	159.7	159.4
147	163.1	162.8	162.6	162.3	162.0	161.7	161.3	161.0	160.6	160.3
148	164.0	163.7	163.5	163.2	162.9	162.6	162.3	161.9	161.6	161.3
149	165.0	164.7	164.5	164.2	163.9	163.6	163.2	162.9	162.5	162.2
150	165.9	165.6	165.4	165.1	164.8	164.5	164.2	163.8	163.5	163.2
151	166.8	166.5	166.3	166.0	165.7	165.4	165.1	164.7	164.,4	164.1
152	167.7	167.4	167.2	166.9	166.6	166.3	166.0	165.7	165.4	165.1
153	168.6	168.4	168.1	167.9	167.6	167.3	167.0	166.6	166.3	166.0
154	169.5	169.3	169.0	168.8	168.5	168.2	167.9	167.5	167.2	166.9
155	170.4	170.2	169.9	169.7	169.4	169.1	168.8	168.5	168.2	167.9
156	171.3	171.1	170.8	170.6	170.3	170.0	169.7	169.4	16!..1	168.8
157	172.3	172.1	171.8	171.6	171.3	171.0	170.7	170.4	170.1	169.8
158	173.2	173.0	172.7	172.5	172.2	171.9	171.6	171.3	171.0	170.7
159	174.1	173.9	173.6	173.4	173.1	172.8	172.5	172.2	171.9	171.6

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	11 °	12°	13°	14°	15°	16°	17°	18°	19°	20°
160	175.0	174.8	174.5	174.3	174.0	173.7	173.4	173.2	172.9	172.6
161	175.9	175.7	175.4	175.2	174.9	174.6	174.3	174.1	173.8	173.5
162	176.8	176.6	176.3	176.1	175.8	175.5	175.2	175.0	174.7	174.4
163	177.7	177.5	177.2	177.0	176.7	176.4	176.1	175.9	175.6	175.3
164	178.6	178.4	178.1	177.9	177.6	177.3	177.0	176.8	176.5	176.2
165	179.4	179.2	178.9	178.7	178.4	178.1	177.9	177.6	177.4	177.1
166	180.3	180.1	179.8	179.6	179.3	179.0	178.8	178.5	178.3	178.0
167	181.2	181.0	180.7	180.5	180.2	179.9	179.7	179.4	179.2	178.9
168	182.1	181.9	181.6	181.4	181.1	180.8	180.5	180.3	180.0	179.8
169	182.9	182.7	182.4	182.2	181.9	181.7	181.4	181.2	180.9	180.7
170	183.8	183.6	183.3	183.1	182.8	182.5	182.3	182.0	181.8	181.5
171	184.7	184.5	184.2	184.0	183.7	183.4	183.2	182.9	182.7	182.4
172	185.6	185.3	185.1	184.8	184.6	184.3	184.1	183.8	183.6	183.3
173	186.4	186.2	185.9	185.7	185.4	185.2	184.9	184.7	184.4	184.2
174	187.3	187.0	186.8	186.5	186.3	186.1	185.8	185.6	185.3	185.1
175	188.2	187.9	187.7	187.4	187.2	187.0	186.7	186.5	186.2	186.0
176	189.1	188.8	188.6	188.3	188.1	187.8	187.6	187.3	187.1	186.8
177	189.9	189.7	189.4	189.2	188.9	188.7	188.4	188.2	187.9	187.7
178	19.8	19.6	19.3	190.1	189.8	189.6	189.3	189.1	188.8	188.6
179	191.7	191.4	191.2	190.9	190.7	190.5	19.2	19.0	189.7	189.5
180	192.6	192.3	192.1	191.8	191.6	191.4	191.1	190.9	190.6	19.4
181	193.3	193.1	192.8	192.6	192.4	192.2	192.0	191.7	191.5	191.3
182	194.1	193.9	193.6	193.4	193.2	193.0	192.8	192.5	192.3	192.1
183	194.9	194.7	194.4	194.2	194.0	193.8	193.6	193.3	193.1	192.9
184	195.7	195.5	195.2	195.0	194.8	194.6	194.4	194.1	193.9	193.7
185	196.4	196.2	196.0	195.8	195.6	195.4	195.2	194.9	194.7	194.5
186	197.2	197.0	196.8	196.6	196.4	196.2	196.0	195.8	195.6	195.4
187	198.0	197.8	197.6	197.4	197.2	197.0	196.8	196.6	196.4	196.2
188	198.7	198.5	198.3	198.1	197.9	197.7	197.5	197.4	197.2	197.0
189	199.5	199.3	199.1	198.9	198.7	198.5	198.3	198.2	198.0	197.8
190	-----	-----	199.9	199.7	199.5	199.3	199.1	199.0	198.8	198.6
191	-----	-----	-----	-----	-----	-----	199.9	199.8	199.7	199.5

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°
76	93.4	93.0	92.5	92.1	91.7	91.3	90.8	90.3	89.9	89.4
77	94.2	93.8	93.4	93.0	92.6	92.2	91	91	90	90.3
78	95.2	94.8	94.4	94.0	93.6	93.2	92.7	92.2	91.8	91.3
79	96	95.7	95.3	94.9	94.5	94.1	93.6	93	92	92.2
80	97.0	96.6	96.2	95.8	95.4	95.0	94.5	94.0	93	93
81	97.9	97.5	97	96.7	96.3	95.9	95.5	95.0	94	94
82	98.8	98.4	98.0	97.6	97.2	96.8	96.4	95.9	95.5	95.0
83	99.8	99.4	98.9	98.5	98	97.7	97.3	96.8	96.4	95.9
84	100.7	100.3	99.8	99.4	99.0	98.6	98.2	97.7	97.3	96.8
85	101.6	101.2	100.7	100.3	99.9	99.5	99.1	98.6	98.2	97.8
86	102.5	102	101.7	101.3	100.9	100.5	100	99.6	99.2	98.7
87	103.4	103.0	102.6	102.2	101	101.4	101.0	100.5	100	99.7
88	104.3	103.9	103.5	103	102	102.3	101	101.5	101	100.7
89	105.2	104.8	104.4	104.0	103.6	103.2	102.8	102.4	102.0	101
90	106.1	105.7	105.3	104.9	104.5	104.1	103.7	103.3	102.9	102.5
91	107.0	108.6	106.2	105.8	105.4	105.0	104.6	104.3	103.9	103.5
92	107.9	107.5	107.1	106.7	106.3	105.9	105.5	105.2	104.8	104.4
93	108.8	108.4	108	107.7	107.3	106.9	106.5	106.2	105.8	105.4
94	109.8	109.4	109.0	108.6	108.2	107.8	107.4	107	106	106.3
95	110.7	110.3	109.9	109.5	109	108.7	108.8	108.0	107.6	107.2
96	111.6	111.2	110.9	110.5	110	109.7	109.3	108.9	108.5	108.1
97	112.5	112.1	111.8	111.4	111.0	110	110.2	109.9	109.5	109
98	113.5	113.1	112.7	112.3	111.9	111.5	111.1	110.8	110.4	110.0
99	114.4	114.0	113.7	113.3	112.9	112.5	112.1	111.8	111.4	111.0
100	115.3	114.9	114.6	114.2	113.8	113.4	113.0	112.7	112.3	111.9
101	116.3	115.9	115.5	115.1	114.7	114.3	113.9	113.6	113.2	112
102	117.2	116.8	116.5	116.1	115.7	115.3	114.9	114.6	114.2	113.8
103	118.1	117.7	117.4	117.0	116.6	116.2	115.8	115.5	115.1	114.7
104	119.0	118.6	1183	117.9	117.5	117.1	116.8	116.4	116.1	115.7
105	119.9	119.6	119.2	118.9	118.5	118.1	117.8	117.4	117.1	116.7
106	120.9	120.5	120.2	119.8	119.4	119.0	118.7	118.3	118.0	117.6
107	121.8	121.5	121.1	120.8	120.4	120.0	119.7	119.3	119.0	118
108	122.7	122.4	122.0	121.7	121.3	120.9	120.6	120.2	119.9	119.5
109	123.7	123.4	123.0	122.7	122.3	121.9	121.6	121.2	120.9	120.5
110	124.6	124.3	123.9	123.8	123.2	122.8	122.5	122	121	121.4
111	125.6	125.3	124.9	124.6	124.2	123.8	123.5	123	122.8	122.4
112	126.6	126.3	125.9	125.6	125.2	124.8	124.5	124	123.8	123.4
113	127.5	127.2	126.8	126.5	126	125.8	125.4	125	124.7	124.4
114	128.5	128.2	127.8	127.5	127.1	126.7	126.4	126.0	125	125.3
115	129.5	129.2	128.8	128.5	128	127.7	127.4	127.0	126.7	126.3
116	130.5	130.2	129.8	129.5	129	128.7	128.4	128.0	127.7	127.3
117	131.4	131	130.7	130.4	130.0	129.6	129.3	128.9	128.6	128.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°
118	132.4	132	131.7	131.4	131	130.6	130.3	129.9	129.6	129.2
119	133.4	133	132.7	132.4	132.0	131.6	131.3	130.9	130.6	130.2
120	134.3	134.0	133.6	133.3	132.9	132.6	132.2	131	131.5	131.2
121	135.3	135.0	134.8	134.3	133.9	133.5	133.2	132.8	132.5	132
122	136.3	135.9	135.6	135.2	134.8	134.5	134	133.8	133.4	133
123	137.2	136.9	136	136.2	135.8	135.5	135	134.8	134.4	134
124	138.2	137.9	137.5	137.2	136.8	136.5	138	135.8	135.4	135
125	139.2	138.8	138.5	138.1	137.7	137.4	137.0	136.7	136.3	136.0
126	140.1	139.8	139.4	139.1	138.7	138.3	138.0	137.6	137.3	136.9
127	141.0	140.7	140.3	140.0	139.6	139.2	138.9	138.6	138.2	137.9
128	142.0	141	141	141.0	140.6	140.2	139.9	139.5	139.2	138.8
129	142.9	142.6	142.2	141.9	141.5	141.2	140.8	140.5	140.1	139.8
130	143.0	143.5	143.2	142.8	142.5	142.1	141.8	141.4	141.1	140.7
131	144.9	144.5	144.2	143.8	143.5	143.1	142.8	142.4	142.1	141.7
132	145.8	145.4	145	144.7	144.4	144.1	143.7	143.3	143.0	142.6
133	146.8	146.4	146	145	145.4	145.1	144.7	144.3	144.0	143.6
134	147.7	147.3	147.0	146.6	146.3	146.0	145.6	145.3	144.9	144.6
135	148.7	148.3	148.0	147.6	147.3	146.9	146.6	146.2	145.9	145.5
136	149.6	149.2	148.9	148.5	148.2	147.9	147.5	147.2	146.8	146.5
137	150.6	150.2	149.9	149.5	149.2	148.8	148.5	148.1	147.8	147.4
138	151.5	151	150.8	150.4	150.1	149.8	149.4	149.1	148.7	148.4
139	152.4	152.1	151	151.4	151.1	150.7	150.4	150.0	149.7	149.3
140	153.4	153.0	152.7	152.3	152.0	151.7	151.3	151.0	150.6	150.3
141	154.3	154.0	153.8	153.3	153.0	152.7	152.3	152.0	151.6	151.3
142	155.3	155.0	154.8	154.3	154.0	153.7	153.3	153.0	152.6	152.3
143	156.2	155.9	155.5	155.2	154.9	154.6	154.2	153.9	153.5	153.2
144	157.2	156.9	156.5	156.2	155.9	155.6	155.2	154.9	154.5	154.2
145	158.1	157.8	157.5	157.2	156.9	156.6	156.2	155.8	155.5	155.1
146	159.1	158.8	158.4	158	157.8	157.5	157.1	156.8	156.4	156.1
147	160	159.7	159.4	159.1	158.8	158.5	158.1	157.8	157.4	157.1
148	161	160.7	160.3	160.0	159.7	159.4	159.0	158.7	158.3	158.0
149	161.9	161	161.3	161.0	160.7	160.4	160.0	159.7	159.3	159.0
150	162.8	162.5	162.2	161.9	161.6	161.3	160.9	160.6	160.2	159.9
151	163.8	163.5	163	162.8	162.5	162.2	161.9	161.5	161.2	160.9
152	164.8	164.5	164.1	163.8	163.5	163.2	162.9	162.5	162.2	161.9
153	165.7	165.4	165.0	164.7	164.4	164.1	163.8	163.4	163.1	162.8
154	166.6	166.3	166.0	165.7	165.4	165.1	164.8	164.4	164.1	163.8
155	167.6	167.3	166.9	168.6	166.3	166.0	165.7	165.4	165.1	164.8
156	168.5	168.2	167.9	167.6	167.3	167.0	166.7	166.3	166.0	165.7
157	169.5	169.2	188.8	168.5	168.2	167.9	167.6	167.3	167	166.7
158	170.4	170	169.8	169.5	169.2	168.9	168.6	168.3	168.0	167.7
159	171.3	171.0	170.7	170.4	170.1	169.8	169.5	169.2	168.9	168.6

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°
160	172.3	172.0	171	171.4	170.1	170.8	170.5	170.1	169.8	169.5
161	173.2	172.9	172.6	172.3	172.0	171.7	171.4	171.0	170.7	170.4
162	174.1	173.8	173.5	173.2	172.9	172.6	172.3	172.0	171.7	171.4
163	175	174.7	174.4	174	173.8	173.5	173.2	172.9	172.6	172.5
164	175.9	175.6	175.3	175.0	174.7	174.4	174.1	173.8	173.5	173.2
165	176.8	176.5	176.3	176.0	175.7	175.4	175.1	174.7	174.4	174.1
166	177.7	177.4	177.2	176.9	176.6	176.3	176.0	175.7	175.4	175.1
167	178.6	178.3	178	177.8	177.5	177.2	176.9	176.6	176.3	176
168	179.5	179.2	179.0	178.7	178.4	178.1	177.8	177.5	177.2	176
169	180.4	180.1	179.9	179.8	179.3	179.0	178.7	178.5	178.2	177.9
170	181.2	181.0	180.7	180.5	180.2	179.9	179.6	179.4	179.1	178.8
171	182.1	181	181.6	181.4	181.1	180.8	180.5	180.3	180.0	179.1
172	183	182.8	182.5	182.3	182.0	181.7	181.4	181.2	180.9	180.6
173	183.9	183.7	183.4	183.2	182.9	182.6	182.3	182.1	181.8	181.5
174	184.8	184.6	184.3	184.1	183.8	183.5	183.2	183.0	182.7	182.4
175	185.7	185.5	185.2	185.0	184.7	184.4	184.1	183.9	183.6	183.3
176	186.8	186.3	186.1	185.8	185.6	185.3	185.0	184.8	184.5	184.2
177	187.5	187.2	187.0	186.7	186.5	186.2	186.0	185.7	185.5	185.2
178	188.4	188.1	187.9	187.6	187.4	187.1	186.9	186.6	186.4	186.1
179	189.3	189.0	188.8	188.5	188.3	188.0	187.8	187.5	187.3	187.0
180	190.2	189.9	189.7	189.4	189.2	188.9	188.6	188.4	188.1	187.8
181	191.1	190.8	190.6	190.3	190.1	189.8	189.5	189.3	189.0	188.7
182	191.9	191.6	191.4	191.1	190.9	190.8	190.4	190.1	189.9	189.6
183	192.7	192.5	192.2	192.0	191.8	191.5	191.3	191.0	190.8	190.5
184	193.5	193.3	193.0	192.8	192.6	192.3	192.1	191.8	191.8	191.3
185	194.3	194.1	193.9	193.7	193.5	193.2	193.0	192.7	192.5	192.2
186	195.2	195.0	194.7	194.5	194.3	194.0	193.8	193.5	193.3	193.0
187	196.0	195.8	195.6	195.4	195.2	194.9	194.7	194.4	194.2	193.9
188	196.8	196.8	196.4	196.2	196.0	195.8	195.5	195.3	195.0	194.8
189	197.6	197.4	197.3	197.1	196.9	196.8	196.4	196.1	195.9	195.8
190	198.4	198.2	198.1	197.9	197.7	197.8	197.3	197.1	196.8	196.5
191	199.3	199.1	199.0	198.8	198.6	198.4	198.1	197.9	197.6	197.4
192	--	199.9	199.7	199.6	199.4	199.2	199.0	198.7	198.5	198.3
193	--	--	--	--	--	--	199.9	199.6	199.4	199.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	31°	33°	33°	34°	35°	36°	37°	38°	39°	40°
1	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0
2	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.0
3	3.7	3.7	3.8	3.8	3.9	3.9	3.9	4.0	4.0	4.0
4	4.7	4.7	4.8	4.8	4.9	4.9	4.9	5.0	5.0	5.0
5	5.7	5.7	5.8	5.8	5.9	5.9	5.9	6.0	6.0	6.0
6	6.7	6.8	6.8	6.9	6.9	6.9	6.9	7.0	7.0	7.0
7	7.7	7.8	7.8	7.9	7.9	7.9	7.9	8.0	8.0	8.0
8	8.8	8.8	8.9	8.9	9.0	9.0	9.0	9.0	9.0	9.0
9	9.8	9.8	9.9	9.9	10.0	10.0	10.0	10.1	10.1	10.1
10	10.9	10.9	11.0	11.0	11.1	11.1	11.1	11.2	11.2	11.2
11	12.0	12.0	12.1	12.1	12.2	12.2	12.2	12.3	12.3	12.3
12	13.1	13.2	13.2	13.3	13.3	13.3	13.3	13.3	13.3	13.3
13	14.2	14.3	14.3	14.4	14.4	14.4	14.4	14.4	14.4	14.4
14	15.3	15.4	15.4	15.5	15.5	15.5	15.5	15.5	15.5	15.5
15	16.4	16.5	16.5	16.6	16.6	16.6	16.6	16.6	16.6	16.6
16	17.5	17.6	17.6	17.7	17.7	17.7	17.7	17.7	17.7	17.7
17	18.6	18.7	18.7	18.8	18.8	18.8	18.8	18.7	18.7	18.7
18	19.7	19.8	19.8	19.9	19.9	19.9	19.9	19.8	19.8	19.8
19	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.0	21.0	21.0
20	22.3	22.3	22.4	22.4	22.4	22.4	22.4	22.3	22.3	22.3
21	23.6	23.6	23.6	23.6	23.6	23.6	23.5	23.5	23.4	23.4
22	24.8	24.8	24.8	24.8	24.8	24.7	24.7	24.6	24.6	24.5
23	26.0	26.0	25.9	25.9	25.9	25.8	25.8	25.7	25.7	25.6
24	27.2	27.2	27.1	27.1	27.1	27.0	27.0	26.9	26.9	26.8
25	28.4	28.3	28.3	28.2	28.2	28.1	28.1	28.0	28.0	27.9
26	29.7	29.7	29.6	29.6	29.5	29.4	29.3	29.3	29.2	29.1
27	31.2	31.1	31.1	31.0	30.9	30.8	30.7	30.6	30.5	30.4
28	32.6	32.5	32.4	32.3	32.2	32.1	32.0	31.8	31.7	31.6
29	34.0	33.9	33.8	33.7	33.6	33.5	33.3	33.2	33.0	32.9
30	35.4	35.2	35.1	34.9	34.8	34.7	34.5	34.4	34.2	34.1
31	36.7	36.6	36.4	36.3	36.1	35.9	35.8	35.6	35.5	35.3
32	38.3	38.1	38.0	37.8	37.6	37.4	37.2	36.9	36.7	36.5
33	39.9	39.7	39.4	39.2	39.0	38.8	38.5	38.3	38.0	37.8
34	41.4	41.2	40.9	40.7	40.4	40.1	39.9	39.6	39.4	39.1
35	42.9	42.7	42.4	42.2	41.9	41.6	41.3	41.1	40.8	40.5
36	44.4	44.1	43.9	43.6	43.3	43.0	42.7	42.4	42.1	41.8
37	45.8	45.5	45.2	44.9	44.6	44.3	44.0	43.7	43.4	43.1
38	47.1	46.8	46.5	46.2	45.9	45.6	45.3	45.0	44.7	44.4
39	48.5	48.2	47.8	47.5	47.2	46.9	46.6	46.2	45.9	45.6
40	49.9	49.5	49.2	48.8	48.5	48.2	47.8	47.5	47.1	46.8
41	51.2	50.8	50.5	50.1	49.7	49.4	49.0	48.7	48.3	48.0
42	52.6	52.2	51.8	51.4	51.0	50.6	50.2	49.9	49.5	49.1

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	31°	33°	33°	34°	35°	36°	37°	38°	39°	40°
43	54.0	53.6	53.1	52.7	52.3	51.9	51.5	51.1	50.7	50.3
44	55.4	54.9	54.5	54.0	53.6	53.2	52.8	52.3	51.9	51.5
45	56.7	56.3	55.8	55.4	54.9	54.5	54.1	53.6	53.2	52.8
46	58.1	57.6	57.2	56.7	56.2	55.8	55.3	54.9	54.4	54.0
47	59.4	58.9	58.4	57.9	57.4	57.0	56.5	56.1	55.6	55.2
48	60.7	60.2	59.7	59.2	58.7	58.2	57.8	57.3	56.9	56.4
49	61.9	61.4	60.9	60.4	59.9	59.4	58.9	58.5	58.0	57.5
50	63.1	62.6	62.2	61.7	61.3	60.8	60.2	59.7	59.1	58.6
51	64.2	63.8	63.3	62.9	62.4	61.9	61.4	60.8	60.3	59.8
52	65.3	64.9	64.4	64.0	63.5	63.0	62.5	61.9	61.4	60.9
53	66.4	65.9	65	65.0	64.5	64.0	63.5	63.1	62.6	62.1
54	67.5	67.0	68.5	66.0	65.5	65.0	64.5	64.1	63.6	63.1
55	68.6	68.1	67.6	67.1	66.6	66.1	65.6	65.2	64.7	64.2
56	69.6	69.1	68.6	68.1	67.6	67.1	66.6	66.2	65.7	65.2
57	70.6	70.0	69.7	69.2	68.7	68.2	67.7	67.3	66.8	66.3
58	71.7	71.2	70.7	70.2	69.7	69.2	68.7	68.3	67.8	67.3
59	72.8	72.3	71.7	71.2	70.7	70.2	69.7	69.3	68.8	68.3
60	73.9	73.4	72.8	72.3	71.8	71.3	70.8	70.3	69.8	69.3
61	74.9	74.4	73.8	73.3	72.8	72.3	71.8	71.4	70.9	70.4
62	75.9	75.4	74.8	74.3	73.8	73.3	72.8	72.4	71.9	71.4
63	76.8	76.3	75.9	75.4	74.9	74.4	73.9	73.4	72.9	72.4
64	77.7	77.3	76.8	76.4	75.9	75.4	74.9	74.4	73.9	73.4
65	78.7	78.2	77.8	77.3	76.9	76.4	75.9	75.4	74.9	74.4
66	79.6	79.2	78.7	78.3	77.8	77.3	76.9	76.4	76.0	75.5
67	80.5	80.1	79.8	79.2	78.7	78.3	77.8	77.4	76.9	76.5
68	81.5	81.0	80.6	80.1	79.7	79.2	78.8	78.3	77.9	77.4
69	82.4	81.9	81.5	81.0	80.8	80.1	79.7	79.2	78.8	78.3
70	83.3	82.9	82.4	82.0	81.5	81.1	80.6	80.2	79.7	79.3
71	84.3	83.8	83.4	82.9	82.5	82.1	81.6	81.2	80.7	80.3
72	85.2	84.7	84.3	83.8	83.4	83.0	82.5	82.1	81.6	81.2
73	86.1	85.7	85.2	84.8	84.4	83.9	83.5	83.0	82.6	82.1
74	87.1	86.6	88.2	85.7	85.3	84.9	84.4	84.0	83.5	83.1
75	88.0	87.6	87.1	86.7	86.3	85.9	85.4	85.0	84.5	84.1
76	89.0	88.5	88.1	87.8	87.2	88.8	86.3	85.9	85.4	85.0
77	89.9	89.4	89.0	88.5	88.1	87.7	87.2	86.8	86.3	85.9
78	90.9	90.4	90.0	89.5	89.1	88.7	88.2	87.8	87.3	86.9
79	91.8	91.3	90.9	90.4	90.0	89.6	89.2	88.7	88.3	87.9
80	92.7	92.3	91.8	91.4	91.0	90.6	90.1	89.7	89.2	88.8
81	93.7	93.2	92.8	92.3	91.9	91.5	91.0	90.6	90.1	89.7
82	94.6	94.2	93.7	93.3	92.9	92.5	92.0	91.6	91.1	90.7
83	95.5	95.1	94.7	94.3	93.9	93.5	93.0	92.6	92.1	91.7
84	96.4	96.0	95.8	95.2	94.8	94.4	94.0	93.5	93.1	92.7

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	31°	33°	33°	34°	35°	36°	37°	38°	39°	40°
85	97.4	97.0	96.5	96.1	95.7	95.3	94.9	94.5	94.1	93.7
86	98.3	97.9	97.5	97.1	96.7	96.3	95.9	95.4	95.0	94.8
87	99.3	98.9	98.4	98.0	97.6	97.2	96.8	96.4	96.0	95.6
88	100.3	99.9	99.4	99.0	98.6	98.2	97.8	97.3	96.9	96.5
89	101.2	100.8	100.3	99.9	99.5	99.1	98.7	98.3	97.9	97.5
90	102.1	101.7	101.3	100.9	100.5	100.1	99.7	99.2	98.8	98.4
91	103.1	102.7	102.2	101.8	101.4	101.0	100.6	100.2	99.8	99.4
92	104.0	103.6	103.2	102.8	102.4	102.0	101.6	101.1	100.7	100.3
93	105.0	104.6	104.1	103.7	103.3	102.9	102.5	102.1	101.7	101.3
94	105.9	105.5	105.1	104.7	104.3	103.9	103.5	103.1	102.7	102.3
95	106.8	106.4	106.1	105.7	105.3	104.9	104.5	104.0	103.6	103.2
96	107.7	107.3	107.0	106.6	106.2	105.8	105.4	105.0	104.6	104.2
97	108.7	108.3	108.0	107.6	107.2	106.8	106.4	106.0	105.6	105.2
98	109.8	109.2	108.9	108.5	108.1	107.7	107.3	107.0	106.6	106.2
99	110.6	110.2	109.8	109.4	109.0	108.6	108.2	107.9	107.5	107.1
100	111.5	111.1	110.8	110.4	110.0	109.6	109.2	108.9	108.5	108.1
101	112.4	112.0	111.7	111.3	110.9	110.5	110.1	109.8	109.4	109.0
102	113.4	113.0	112.7	112.3	111.9	111.5	111.1	110.8	110.4	110.0
103	114.3	114.0	113.6	113.3	112.9	112.5	112.1	111.7	111.3	110.9
104	115.3	114.9	114.6	114.2	113.8	113.4	113.0	112.7	112.3	111.9
105	116.3	115.9	115.6	115.2	114.8	114.4	114.0	113.7	113.3	112.9
106	117.2	116.8	116.5	116.1	115.7	115.3	114.9	114.6	114.2	113.8
107	118.2	117.8	117.5	117.1	116.7	116.3	115.9	115.6	115.2	114.8
108	119.1	118.8	118.4	118.1	117.7	117.3	116.9	116.6	116.2	115.8
109	120.1	119.8	119.4	119.1	118.7	118.3	117.9	117.6	117.2	116.8
110	121.0	120.7	120.3	120.0	119.6	119.2	118.9	118.5	118.2	117.8
111	122.0	121.7	121.3	121.0	120.6	120.2	119.8	119.5	119.1	118.7
112	123.0	122.6	122.3	121.9	121.5	121.1	120.8	120.4	120.1	119.7
113	124.0	123.6	123.3	122.9	122.5	122.1	121.8	121.4	121.1	120.7
114	124.9	124.6	124.2	123.9	123.5	123.1	122.7	122.4	122.0	121.6
115	125.9	125.6	125.2	124.9	124.5	124.1	123.7	123.4	123.0	122.6
116	126.9	126.5	126.2	125.8	125.4	125.0	124.7	124.3	124.0	123.8
117	127.8	127.5	127.1	126.8	126.4	126.0	125.7	125.3	125.0	124.8
118	128.8	128.5	128.1	127.8	127.4	127.0	126.7	126.3	126.0	125.8
119	129.8	129.4	129.1	128.7	128.3	127.9	127.6	127.2	126.9	126.5
120	130.8	130.4	130.1	129.7	129.3	128.9	128.6	128.2	127.9	127.5
121	131.7	131.4	131.0	130.7	130.3	129.9	129.6	129.2	128.9	128.5
122	132.7	132.4	132.0	131.7	131.3	130.9	130.6	130.2	129.9	129.5
123	133.7	133.4	133.0	132.7	132.3	131.9	131.6	131.2	130.9	130.5
124	134.7	134.4	134.0	133.7	133.3	132.9	132.6	132.2	131.9	131.5
125	135.7	135.3	135.0	134.6	134.3	133.9	133.6	133.2	132.9	132.5

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	31°	33°	33°	34°	35°	36°	37°	38°	39°	40°
126	136.6	136.2	135.9	135.5	135.2	134.9	134.5	134.2	133.8	133.5
127	137.5	137.2	136.8	136.5	136.1	135.8	135.4	135.1	134.7	134.4
128	138.5	138.1	137.8	137.4	137.1	136.8	136.4	136.1	135.7	135.4
129	139.5	139.1	138.8	138.4	138.1	137.7	137.4	137.0	136.7	136.3
130	140.4	140.0	139.7	139.3	139.0	138.7	138.3	138.0	137.6	137.3
131	141.4	141.0	140.7	140.3	140.0	139.6	139.3	138.9	138.6	138.2
132	142.3	141.9	141.6	141.2	140.9	140.6	140.2	139.9	139.5	139.2
133	143.3	142.9	142.6	142.2	141.9	141.6	141.2	140.9	140.5	140.2
134	144.2	143.9	143.5	143.2	142.8	142.5	142.1	141.8	141.4	141.1
135	145.2	144.8	144.5	144.1	143.8	143.5	143.1	142.8	142.4	142.1
136	146.2	145.8	145.5	145.1	144.8	144.5	144.1	143.8	143.4	143.1
137	147.1	146.8	146.4	146.1	145.8	145.4	145.1	144.7	144.4	144.0
138	148.1	147.7	147.4	147.0	146.7	146.4	146.0	145.7	145.3	145.0
139	149.0	148.7	148.3	148.0	147.7	147.4	147.0	146.7	146.3	146.0
140	150.0	149.7	149.3	149.0	148.7	148.4	148.0	147.7	147.3	147.0
141	151.0	150.6	150.3	149.9	149.6	149.3	149.0	148.6	148.3	148.0
142	152.0	151.6	151.3	150.9	150.6	150.3	149.9	149.6	149.2	148.9
143	152.9	152.5	152.2	151.8	151.5	151.2	150.9	150.5	150.2	149.9
144	153.9	153.5	153.2	152.8	152.5	152.2	151.9	151.5	151.2	150.9
145	154.8	154.5	154.1	153.8	153.5	153.2	152.9	152.5	152.2	151.9
146	155.8	155.5	155.1	154.8	154.5	154.2	153.8	153.5	153.1	152.8
147	156.8	156.4	156.1	155.7	155.4	155.1	154.8	154.4	154.1	153.8
148	157.7	157.4	157.0	156.7	156.4	156.1	155.8	155.4	155.1	154.8
149	158.7	158.4	158.0	157.7	157.4	157.1	156.7	156.4	156.0	155.7
150	159.6	159.3	158.9	158.6		158.0	157.7	157.3	157.0	156.7
151	180.6	160.3	159.9	159.6	159.3	159.0	158.7	158.3	158.0	157.7
152	161.6	161.3	160.9	160.6	160.3	160.0	159.7	159.3	159.0	158.7
153	162.5	162.2	161.8	161.5	161.2	160.9	160.6	160.2	159.9	159.6
154	163.5	163.2	162.8	162.5	162.2	161.9	161.6	161.2	160.9	160.8
155	164.5	164.2	163.8	163.5	163.2	162.9	162.6	162.2	161.9	161.6
156	165.4	165.1	164.7	164.4	164.1	163.8	163.5	163.2	162.9	162.6
157	166.4	166.1	165.7	165.4	165.1	164.8	164.5	164.1	163.8	163.5
158	167.4	167.1	166.7	166.4	166.1	165.8	165.5	165.1	164.8	164.5
159	168.3	168.0	167.6	167.3	167.0	166.7	166.4	166.1	165.8	165.5
160	169.2	168.9	168.6	168.3	168.0	167.7	167.4	167.0	166.7	166.4
161	170.1	169.8	169.5	169.2	168.9	168.6	168.3	168.0	167.7	167.4
162	171.1	170.8	170.5	170.2	169.9	169.6	169.3	169.0	168.7	168.4
163	172.0	171.7	171.4	171.1	170.8	170.5	170.2	169.9	169.6	169.3
164	172.9	172.6	172.4	172.1	171.8	171.5	171.2	170.9	170.8	170.3
165	173.8	173.5	173.3	173.0	172.7	172.4	172.1	171.9	171.6	171.3
166	174.8	174.5	174.3	174.0	173.7	173.4	173.1	172.8	172.5	172.2
167	175.7	175.4	175.2	174.9	174.6	174.3	174.0	173.8	173.5	173.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	31°	33°	33°	34°	35°	36°	37°	38°	39°	40°
168	176.6	176.3	176.1	175.8	175.5	175.2	174.9	174.7	174.4	174.1
169	177.6	177.3	177.1	176.8	176.5	176.2	175.9	175.6	175.3	175.0
170	178.5	178.2	178.0	177.7	177.4	177.1	176.8	176.8	176.3	178.0
171	179.4	179.1	178.9	178.6	178.3	178.0	177.7	177.5	177.2	176.9
172	180.3	180.0	179.8	179.5	179.2	178.9	178.7	178.4	178.2	177.9
173	181.2	181.0	180.7	180.5	180.2	179.9	179.6	179.4	1789.1	178.8
174	182.1	181.9	181.8	181.4	181.1	180.8	180.5	180.3	180.0	179.7
175	183.0	182.8	182.5	182.3	182.0	181.7	181.5	181.2	181.0	180.7
176	183.9	183.7	183.4	183.2	182.9	182.6	182.4	182.1	181.9	181.6
177	184.9	184.7	184.4	184.2	183.9	183.6	183.3	183.1	182.8	182.5
178	185.8	185.6	185.3	185.1	184.8	184.5	184.3	184.0	183.8	183.5
179	186.7	186.5	186.2	186.0	185.7	185.4	185.2	184.9	184.7	184.4
180	187.6	187.3	187.1	186.8	186.6	186.4	186.1	185.9	185.6	185.4
181	188.5	188.2	188.0	187.7	187.5	187.3	187.1	186.8	186.6	186.4
182	189.4	189.1	188.9	188.6	188.4	188.2	188.0	187.7	187.5	187.3
183	190.3	190.0	189.8	189.5	189.3	189.1	188.9	188.6	188.4	188.2
184	191.1	190.9	190.6	190.4	190.2	190.0	189.7	189.5	189.2	189.0
185	192.0	191.8	191.5	191.3	191.1	190.9	190.8	190.4	190.1	189.9
186	192.8	192.6	192.3	192.1	191.9	191.7	191.5	191.2	191.0	190.8
187	193.7	193.5	193.2	193.0	192.8	192.8	192.4	192.1	191.9	191.7
188	194.6	194.4	194.1	193.9	193.7	193.5	193.3	193.1	192.9	192.7
189	195.4	195.2	195.0	194.8	194.6	194.4	194.2	194.0	193.8	193.6
190	196.3	196.1	195.9	195.7	195.5	195.3	195.1	194.9	194.7	194.5
191	197.2	197.0	196.8	198.6	196.4	196.2	196.0	195.8	195.6	195.4
192	198.1	197.9	197.8	197.6	197.4	197.2	197.0	196.7	196.5	196.3
193	199.0	198.8	198.7	198.5	198.3	198.1	197.9	197.7	197.5	197.3
194	200.0	199.8	199.6	199.4	199.2	199.0	198.8	198.6	198.4	198.2
195	--	--	--	--	--	199.9	199.7	199.8	199.4	199.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°
1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8
2	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8
3	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8
4	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.8	4.8
5	8.0	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.8	5.8
6	7.0	7.0	7.0	7.0	7.0	7.0	8.9	6.9	6.8	6.8
7	8.0	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.8
8	9.0	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.8
9	10.1	10.1	10.0	10.0	10.0	10.0	9.9	9.9	9.8	9.9
10	11.2	11.2	11.1	11.1	11.1	11.1	11.0	11.0	10.9	10.9
11	12.3	12.3	12.2	12.2	12.2	12.2	12.1	12.1	12.0	11.9
12	13.3	13.3	13.3	13.3	13.3	13.2	13.2	13.1	13.1	13.0
13	14.4	14.4	14.3	14.3	14.3	14.2	14.2	14.1	14.1	14.0
14	15.5	15.5	15.4	15.4	15.4	15.3	15.2	15.2	15.2	15.0
15	16.6	16.5	16.5	18.4	16.4	16.3	16.3	16.2	16.2	16.1
16	17.7	17.6	17.8	17.5	17.5	17.4	17.3	17.3	17.2	17.1
17	18.7	18.6	18.6	18.5	18.5	18.4	18.4	18.3	18.3	18.2
18	19.7	19.7	19.6	19.6	19.5	19.4	19.4	19.3	19.3	19.2
19	20.9	20.9	20.8	20.8	20.7	20.8	20.5	20.5	20.4	20.3
20	22.2	22.1	22.1	22.0	21.9	21.8	21.7	21.6	21.5	21.3
21	23.3	28.2	23.2	23.1	23.0	22.9	22.8	22.7	22.6	22.4
22	24.4	24.3	24.3	24.2	24.1	24.0	23.9	23.7	23.6	23.5
23	25.5	25.4	25.4	25.3	25.2	25.1	25.0	24.8	24.7	24.8
24	26.7	26.6	26.5	26.4	26.3	26.2	26.1	25.9	25.8	25.8
25	27.8	27.7	27.6	27.5	27.4	27.3	27.1	27.0	26.8	26.7
26	29.0	28.9	28.7	28.6	28.5	28.4	28.2	28.1	27.9	27.8
27	30.3	30.1	30.0	29.8	29.7	29.5	29.4	29.2	29.1	28.9
28	31.4	31.3	31.1	31.0	30.8	30.8	30.5	30.3	30.2	30.0
29	32.7	32.6	32.4	32.3	32.1	31.9	31.7	31.5	31.3	31.1
30	33.9	33.7	33.6	33.4	33.2	33.0	32.8	32.6	32.4	32.2
31	35.1	34.9	34.8	34.6	34.4	34.2	34.0	33.7	33.5	33.3
32	36.3	36.1	35.9	35.7	35.5	35.3	35.1	34.8	34.6	34.4
33	37.6	37.4	37.1	36.9	36.7	38.5	36.2	36.0	35.7	35.5
34	38.9	38.6	38.4	38.1	37.9	37.6	37.4	37.1	36.9	36.6
35	40.2	39.9	39.7	39.4	39.1	38.8	38.5	38.3	38.0	37.7
36	41.5	41.2	40.9	40.6	40.3	40.0	39.7	39.5	39.2	38.8
37	42.8	42.5	42.1	41.8	41.5	41.2	40.9	40.8	40.3	39.9
38	44.1	48.7	43.4	43.0	42.7	42.4	42.1	41.7	41.4	41.0
39	45.3	44.9	44.6	44.2	43.9	43.6	43.3	42.9	42.6	42.1
40	46.5	46.1	45.8	45.4	45.1	44.8	44.4	44.1	43.7	43.2
41	47.6	47.3	46.9	48.6	46.2	45.9	45.5	45.2	44.8	44.3

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°
42	48.8	48.4	48.1	47.7	47.4	47.0	46.7	46.3	46.0	45.4
43	49.9	49.6	49.2	48.9	48.5	48.1	47.7	47.4	47.0	46.5
44	51.1	50.7	50.4	50.0	49.6	49.2	48.8	48.5	48.1	47.6
45	52.4	52.0	51.5	51.1	50.7	50.3	49.9	49.6	49.2	48.7
46	53.6	53.2	52.7	52.3	51.9	51.5	51.1	50.7	50.3	49.8
47	54.8	54.3	53.9	53.4	53.0	52.6	52.2	51.7	51.3	50.9
48	55.9	55.5	55.0	54.6	54.1	53.7	53.3	52.8	52.4	52.0
49	57.1	56.6	56.2	55.7	55.3	54.9	54.4	54.0	53.5	53.0
50	58.2	57.7	57.3	56.8	56.4	58.0	55.5	55.1	54.6	54.1
51	59.3	58.9	58.4	58.0	57.5	57.1	56.6	56.2	55.7	55.2
52	60.4	60.0	59.5	59.1	58.6	58.2	57.7	57.3	56.8	56.2
63	61.6	61.1	60.7	60.2	59.7	59.2	58.8	58.3	57.9	57.3
54	62.6	62.2	61.7	61.3	60.8	60.3	59.9	59.4	59.0	58.4
55	63.7	63.2	62.8	62.3	61.8	61.3	60.9	60.4	60.0	59.4
56	64.7	64.2	63.8	63.3	62.8	62.3	61.9	61.4	61.0	60.5
57	65.8	65.3	64.9	64.4	63.9	63.4	63.0	62.5	62.1	61.5
58	66.8	66.3	65.9	65.4	64.9	64.4	64.0	63.5	63.1	62.6
59	67.8	67.3	66.9	66.4	65.9	65.4	65.0	64.5	64.1	63.6
60	68.8	68.4	67.9	67.5	67.0	66.5	66.0	65.6	65.1	64.6
61	69.9	69.4	69.0	68.5	68.0	67.5	67.0	66.6	68.1	65.6
62	70.9	70.4	70.0	69.5	69.0	68.5	68.0	67.6	67.1	66.6
63	71.9	71.4	71.0	70.5	70.0	69.5	69.0	68.6	68.1	67.6
64	72.9	72.4	72.0	71.5	71.0	70.5	70.1	69.6	69.2	68.6
65	73.9	73.4	73.0	72.5	72.0	71.5	71.1	70.6	70.2	89.6
66	75.0	74.5	74.0	73.5	73.0	72.5	72.1	71.0	71.2	70.8
67	76.0	75.5	75.0	74.5	74.0	73.5	73.1	72.6	72.2	71.6
68	76.9	76.5	76.0	75.6	75.1	74.6	74.1	73.7	73.2	72.6
69	77.9	77.4	77.0	76.5	76.1	75.6	75.1	74.7	74.2	73.6
70	78.9	78.4	78.0	77.5	77.1	76.6	76.1	75.7	75.2	74.8
71	79.8	79.4	78.9	78.5	78.0	77.5	77.1	76.6	76.2	75.6
72	80.8	80.3	79.9	79.4	79.0	78.5	78.1	77.6	77.2	76.6
73	81.7	81.3	80.8	80.4	80.0	79.5	79.1	78.6	78.2	77.6
74	82.7	82.2	81.8	81.3	80.9	80.4	80.0	79.5	79.1	78.5
75	83.6	83.2	82.7	82.3	81.8	81.4	80.9	80.5	80.0	79.5
76	84.6	84.1	83.7	83.2	82.8	82.4	81.9	81.5	81.0	80.5
77	85.5	85.0	84.6	84.1	83.7	83.3	82.8	82.4	81.9	81.5
78	86.5	86.0	85.6	85.5	84.7	84.3	83.8	83.4	82.9	82.5
79	87.5	87.0	86.6	86.1	85.7	85.3	84.8	84.4	83.9	83.5
80	88.4	88.0	87.5	87.1	86.7	86.2	85.8	85.3	84.9	84.5
81	89.3	88.9	88.4	88.0	87.6	87.2	86.7	86.3	85.8	85.5
82	90.3	89.9	89.4	89.0	88.6	88.2	87.7	87.3	86.8	86.4

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°
83	91.3	90.9	90.4	90.0	89.6	89.2	88.7	88.3	87.8	87.4
84	92.3	91.9	91.4	91.0	90.6	90.2	89.7	89.3	88.8	88.4
85	93.3	92.8	92.4	91.9	91.5	91.1	90.7	90.2	89.8	89.4
86	94.2	93.8	93.3	92.9	92.5	92.1	91.7	91.2	90.8	90.4
87	95.2	94.8	94.3	93.9	93.5	93.1	92.7	92.2	91.8	91.3
88	96.1	95.7	95.3	94.9	94.5	94.1	93.6	93.2	92.7	92.3
89	97.1	96.7	96.2	95.8	95.4	95.0	94.6	94.1	93.7	93.3
90	98.0	97.6	97.2	96.8	96.4	96.0	95.6	95.1	94.7	94.3
91	99.0	98.6	98.1	97.7	97.3	96.9	96.5	96.1	95.7	95.3
92	99.9	99.5	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2
93	100.9	100.5	100.1	99.7	99.3	98.9	98.5	98.0	97.6	97.2
94	101.9	101.5	101.1	100.7	100.3	99.9	99.5	99.0	98.6	98.2
95	102.8	102.4	102.0	101.6	101.2	100.8	100.4	100.0	99.6	99.2
96	103.8	103.4	103.0	102.6	102.2	101.8	101.4	101.0	100.6	100.2
97	104.8	104.4	104.0	103.6	103.2	102.8	102.4	102.0	101.6	101.1
98	105.8	105.4	105.0	104.6	104.2	103.8	103.4	103.0	102.6	102.1
99	106.7	106.3	105.9	105.5	105.1	104.7	104.3	103.9	103.5	103.1
100	107.7	107.3	106.9	106.5	106.1	105.7	105.3	104.9	104.5	104.1
101	108.6	108.2	107.9	107.5	107.1	106.7	106.3	105.9	105.5	105.1
102	109.6	109.2	108.8	108.4	108.0	107.6	107.2	106.8	106.4	106.1
103	110.5	110.1	109.8	109.4	109.0	108.6	108.2	107.8	107.4	107.0
104	111.5	111.1	110.8	110.4	110.0	109.6	109.2	108.8	108.4	108.0
105	112.5	112.1	111.8	111.4	111.0	110.6	110.2	109.8	109.4	109.0
106	113.4	113.0	112.7	112.3	111.9	111.5	111.1	110.8	110.4	110.0
107	114.4	114.0	113.7	113.3	112.9	112.5	112.1	111.8	111.4	111.0
108	115.4	115.0	114.7	114.3	113.9	113.5	113.1	112.8	112.4	112.0
109	116.4	116.0	115.7	115.3	114.9	114.5	114.1	113.8	113.4	113.0
110	117.4	117.0	116.8	116.2	115.8	115.4	115.0	114.7	114.3	114.0
111	118.3	117.9	117.6	117.2	116.8	116.4	116.0	115.7	115.3	114.9
112	119.3	118.9	118.6	118.2	117.8	117.4	117.0	116.7	116.3	115.9
113	120.3	119.9	119.6	119.2	118.8	118.4	118.0	117.7	117.3	116.9
114	121.2	120.8	120.5	120.1	119.7	119.3	119.0	118.8	118.3	117.9
115	122.2	121.8	121.5	121.1	120.7	120.3	120.0	119.8	119.3	118.9
116	123.2	122.8	122.5	122.1	121.7	121.3	121.0	120.6	120.3	119.9
117	124.2	123.8	123.5	123.1	122.7	122.3	121.9	121.6	121.2	120.8
118	125.2	124.8	124.5	124.1	123.7	123.3	122.9	122.6	122.2	121.8
119	126.1	125.8	125.4	125.1	124.7	124.3	123.9	123.6	123.2	122.8
120	127.1	126.8	126.4	126.1	125.7	125.3	124.9	124.6	124.2	123.8
121	128.1	127.8	127.4	127.1	126.7	126.3	125.9	125.8	125.2	124.8
122	129.1	128.8	128.4	128.1	127.7	127.3	126.9	126.6	126.2	125.8
123	130.1	129.8	129.4	129.1	128.7	128.3	127.9	127.6	127.2	126.8

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°
124	131.1	130.7	130.4	130.0	129.6	129.2	128.9	128.5	128.2	127.8
125	132.1	131.7	131.4	131.0	130.6	130.2	129.9	129.5	129.2	128.7
126	133.1	132.7	132.4	132.0	131.6	131.2	130.9	130.5	130.2	129.7
127	134.0	133.7	133.3	133.0	132.6	132.2	131.9	131.5	131.2	130.7
128	135.0	134.7	134.3	134.0	133.6	133.2	132.9	132.5	132.2	131.7
129	135.9	135.6	135.2	134.9	134.5	134.1	133.8	133.4	133.1	132.7
130	136.9	136.6	136.2	135.9	135.5	135.1	134.8	134.4	134.1	133.7
131	137.9	137.5	137.2	136.8	136.5	136.1	135.8	135.4	135.1	134.7
132	138.8	138.5	138.2	137.8	137.5	137.1	136.8	136.4	136.1	135.7
133	139.8	139.5	139.1	138.8	138.4	138.1	137.7	137.4	137.0	136.7
134	140.8	140.4	140.1	139.7	139.4	139.0	138.7	138.3	138.0	137.8
135	141.8	141.4	141.1	140.7	140.4	140.0	139.7	139.3	139.0	138.6
136	142.7	142.4	142.0	141.7	141.3	141.0	140.6	140.3	139.9	139.6
137	143.7	143.3	143.0	142.6	142.3	141.9	141.6	141.2	140.9	140.8
138	144.7	144.3	144.0	143.6	143.3	142.9	142.8	142.2	141.9	141.6
139	145.7	145.3	145.0	144.6	144.3	143.9	143.6	143.2	142.9	142.6
140	146.7	146.3	148.0	145.6	145.3	144.9	144.6	144.2	143.9	143.6
141	147.7	147.3	147.0	148.8	146.3	145.9	145.6	145.2	144.9	144.5
142	148.6	148.3	147.9	147.6	147.3	146.9	146.6	148.2	145.9	145.5
143	149.6	149.2	148.9	148.5	148.2	147.9	147.5	147.2	146.8	146.5
144	150.6	150.2	149.9	149.5	149.2	148.9	148.5	148.2	147.8	147.5
145	151.6	151.2	150.9	150.5	150.2	149.9	149.5	149.2	148.8	148.5
146	152.5	152.1	151.8	151.4	151.1	150.8	150.5	150.1	149.8	149.5
147	153.5	153.1	152.8	152.4	152.1	151.8	151.4	151.1	150.7	150.6
148	154.5	154.1	153.8	153.4	153.1	152.8	152.4	152.1	151.7	151.4
149	155.4	155.1	154.7	154.4	154.1	153.8	153.4	153.1	152.7	152.4
150	156.4	156.1	155.7	155.4	165.1	154.8	154.4	154.1	153.7	153.4
151	157.4	157.1	156.7	156.4	156.1	155.8	155.4	155.1	154.7	154.4
152	158.4	158.0	157.7	157.3	157.0	156.7	156.4	156.0	155.7	155.4
153	159.3	159.0	158.6	158.3	158.0	157.7	157.4	157.0	156.7	156.4
154	160.3	160.0	159.6	159.3	159.0	158.7	158.3	158.0	157.6	157.4
155	161.3	161.0	160.6	160.3	160.0	159.7	159.3	159.0	158.6	158.3
156	162.3	161.9	161.6	181.2	160.9	160.6	160.3	159.9	159.8	159.3
157	163.2	162.9	162.5	162.2	161.9	161.6	161.3	160.9	160.6	160.3
158	164.2	163.9	163.5	163.2	162.9	162.6	162.3	161.9	161.6	161.3
159	165.2	164.9	164.5	164.2	163.9	163.6	163.3	162.9	162.6	162.3
160	166.1	165.8	165.4	165.1	164.8	164.5	164.2	163.8	163.5	163.3
161	167.1	166.8	166.4	166.1	165.8	165.5	165.2	164.8	164.5	164.3
162	168.1	167.8	167.4	167.1	166.8	166.5	166.2	165.8	165.5	165.2
163	169.0	168.7	168.4	168.1	167.8	167.5	167.2	166.8	166.5	166.2
164	170.0	169.7	169.3	169.0	168.7	168.4	168.1	167.8	167.5	167.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°
0	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.0
1	1.7	1	1.6	1.5	1.4	1.4	1.3	1.2	1.1	1.0
2	2.6	2.6	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.0
3	3.7	3.7	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0
4	4.7	4.7	4.6	4.5	4.5	4.4	4.3	4.2	4.1	4.0
5	5.7	5.7	5.6	5.5	5.5	5.4	5.3	5.2	5.1	5.0
6	6.7	6.7	6.6	6.5	6.5	6.4	6.3	6.2	6.1	6.0
7	7.8	7.7	7.6	7.6	7.5	7.4	7.3	7.2	7.1	7.0
8	8.8	8.7	8.6	8.6	8.5	8.4	8.3	8.2	8.1	8.0
9	9.8	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0
10	10.8	10.8	10.7	10.6	10.5	10.4	10.3	10.2	10.1	10.0
11	11.9	11.8	11.7	11.6	11.5	11.4	11.3	11.2	11.1	11.0
12	12.9	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.0
13	13.9	13.8	13.8	13.7	13.6	13.5	13.3	13.2	13.1	13.0
14	14.9	14.9	14.8	14.7	14.6	14.4	14.4	14.2	14.1	14.0
15	16.0	15.9	15.8	15.7	15.6	15.5	15.4	15.2	15.1	15.0
16	17.0	16.9	16.8	16.7	16.6	16.5	16.4	16.3	16.1	16.0
17	18.1	18.0	17.9	17.8	17.7	17.5	17.4	17.3	17.1	17.0
18	19.1	19.0	18.9	18.8	18.7	18.6	18.4	18.3	18.1	18.0
19	20.2	20.1	19.9	19.8	19.7	19.6	19.4	19.3	19.2	19.0
20	21.2	21.1	21.0	20.9	20.7	20.6	20.5	20.3	20.2	20.0
21	22.3	22.2	22.0	21.9	21.8	21.6	21.5	21.3	21.2	21.0
22	23.4	23.2	23.1	23.0	22.8	22.7	22.5	22.3	22.2	22.0
23	24.4	24.3	24.2	24.0	23.8	23.7	23.5	23.3	23.2	23.0
24	25.5	25.4	25.2	25.0	24.9	24.7	24.5	24.4	24.2	24.0
25	26.6	26.4	26.2	26.1	25.9	25.7	25.6	25.4	25.2	25.0
26	27.6	27.5	27.3	27.1	27.0	26.8	26.6	26.4	26.2	26.0
27	28.7	28.5	28.4	28.2	28.0	27.8	27.6	27.4	27.2	27.0
28	29.8	29.6	29.4	29.2	29.0	28.8	28.6	28.4	28.2	28.0
29	30.9	30.7	30.5	30.3	30.1	29.9	29.7	29.4	29.2	29.0
30	32.0	31.8	31.6	31.4	31.1	30.9	30.7	30.5	30.2	30.0
31	33.1	32.8	32.6	32.4	32.2	32.0	31.7	31.5	31.2	31.0
32	34.2	33.9	33.7	33.5	33.2	33.0	32.7	32.5	32.2	32.0
33	35.3	35.0	34.8	34.6	34.3	34.0	33.8	33.5	33.2	33.0
34	36.4	36.1	35.9	35.6	35.3	35.1	34.8	34.5	34.3	34.0
35	37.5	37.2	36.9	36.7	36.4	36.1	35.8	35.5	35.3	35.0
36	38.6	38.3	38.0	37.7	37.4	37.2	36.9	36.6	36.3	36.0
37	39.7	39.4	39.1	38.8	38.5	38.2	37.9	37.6	37.3	37.0
38	40.8	40.5	40.2	39.9	39.6	39.3	38.9	38.6	38.3	38.0
39	41.8	41.5	41.2	40.9	40.6	40.3	40.0	39.7	39.3	39.0
40	42.9	42.6	42.3	42.0	41.7	41.3	41.0	40.7	40.3	40.0

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°
41	44.0	43.7	43.4	43.0	42.7	42.4	42.0	41.7	41.4	41.0
42	45.1	45.8	44.4	44.1	43.7	43.4	43.1	42.7	42.4	42.0
43	46.2	45.8	45.5	45.1	44.8	44.4	44.1	43.7	43.4	43.0
44	47.3	46.9	46.6	46.2	45.8	45.5	45.1	44.8	44	44.0
45	48.4	48.0	47.6	47.2	46.9	46.5	46.1	45.8	45.4	45.0
46	49.4	49.0	48.7	48.3	47.9	47.5	47.2	46.8	46.4	46.0
47	50.5	50.1	49.7	49.3	49.0	48.6	48.2	47.8	47.4	47.0
48	51.6	51.2	50.8	50.4	50.0	49.6	49.2	48.8	48.4	48.0
49	52.6	52.2	51.8	51.4	51.0	50.6	50.2	49.8	49.4	49.0
50	53.7	53.3	52.9	52.5	52.1	51.6	51.2	50.8	60.4	50.0
51	54.8	54.3	53.9	53.5	53.1	52.7	52.3	51.8	51.4	51.0
52	55.8	55.4	55.0	54.5	54.1	53.7	53.3	52.8	52.4	52.0
63	56.9	56.4	56.0	55.6	55.1	54.7	54.3	53.8	53	53.0
54	57.9	57.5	57.0	56.6	56.2	55.7	55.3	54.9	54.4	54.0
55	59.0	58.5	58.1	57.6	57.2	56.8	56.3	55.9	55.4	55.0
56	60.0	59.6	59.1	58.7	58.2	57.8	57.3	56.9	56.4	56.0
57	61.1	60.6	60.1	59.7	59.2	58.8	58.3	57.9	57.4	57.0
58	62.1	61.6	61.2	60.7	60.2	59.8	59.3	58.9	58.4	58.0
59	63.1	62.7	62.2	61.7	61.2	60.8	60.3	59.9	59.4	59.0
60	64.2	63.7	63.2	62.7	62.3	61.8	61.3	60.9	60.4	60.0
61	65.2	64.7	64.2	63.8	63.3	62.8	62.4	61.9	61.4	61.0
62	66.2	65.7	65.2	64.8	64.3	63.8	63.4	62.9	62.4	62.0
63	67.2	66.7	66.2	65.8	65.3	64.8	64.4	63.9	63.4	63.0
64	68.2	67.7	67.2	66.8	66.3	65.8	65.4	64.9	64.4	64.0
65	69.2	68.7	68.3	67.8	67.3	66.8	66.4	65.9	65.4	65.0
66	70.2	69.7	69.3	68.8	68.3	67.8	67.4	66.9	66.5	66.0
67	71.2	70.7	70.3	69.8	69.3	68.8	68.4	67.9	67.5	67.0
68	72.2	71.7	71.2	70.8	70.3	69.8	69.4	68.9	68.5	68.0
69	73.2	72.7	72.2	71.8	71.3	70.8	70.4	69.9	69.5	69.0
70	74.1	73.7	73.2	72.8	72.3	71.8	71.4	70.9	70.5	70.0
71	75.1	74.7	74.2	73.8	73.3	72.8	72.4	71.9	71.5	71.0
72	76.1	75.6	75.2	74.7	74.3	73.8	73.4	72.9	72.5	72.0
73	77.1	76.6	76.2	75.7	75.3	74.8	74.4	73.9	73.5	73.0
74	78.1	77.6	77.2	76.7	76.3	75.8	75.4	74.9	74.5	74.0
75	79.1	78.6	78.2	77.7	77.3	76.8	76.4	75.9	75.5	75.0
76	80.1	79.6	79.2	78.7	78.3	77.8	77.4	76.9	76.5	76.0
77	81.1	80.6	80.2	79.7	79.3	78.8	78.4	77.9	77.5	77.0
78	82.1	81.6	81.2	80.7	80.3	79.8	79.4	78.9	78.5	78.0
79	83.0	82.6	82.1	81.7	81.2	80.8	80.4	79.9	79.5	79.0
80	84.0	83.6	83.1	82.7	82.2	81.8	81.3	80.9	80.5	80
81	85.0	84.6	84.1	83.7	83.2	82.8	82.3	81.9	81.5	81.0

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°
82	86.0	85.5	85.1	84.7	84.2	83.8	83.3	82.9	82.5	82.0
83	87.0	86.5	86.1	85.6	85.2	84.8	84.3	83.9	83.4	83.0
84	88.0	87.5	87.1	86.6	86.2	85.7	85.3	84.9	84.4	84.0
85	88.9	88.5	88.1	87.6	87.2	86.7	86.3	85.9	85.4	85.0
86	89.9	89.5	89.0	88.6	88.2	87.7	87.3	86.9	86.4	86.0
87	90.9	90.5	90.0	89.6	89.2	887	88.3	87.9	87.4	87.0
88	91.9	91.4	91.0	90.6	90.1	89.7	89.3	88.8	88.4	88.0
89	92.8	92.4	92.0	91.6	91.1	90.7	90.3	89.8	89.4	89.0
90	93.8	93.4	93.0	92.6	92.1	91.7	91.3	90.8	90.4	90.0
91	94.8	94.4	94.0	93.6	93.1	92.7	92.3	91.8	91.4	91.0
92	95.8	95.4	95.0	94.5	94.1	93.7	93.3	92.8	92.4	92.0
93	96.8	96.4	96.0	95.5	95.1	94.7	94.3	93.8	93.4	93.0
94	97.8	97.4	96.9	96.5	961	95.7	95.3	94.8	94.4	94.0
95	98.8	98.4	97.9	97.5	97.1	96.7	96.2	95.8	95.4	95.0
96	99.7	99.3	98.9	98.5	98.1	97.7	97.2	96.8	96.4	96.0
97	100.7	100.3	99.9	99.5	99.1	986	98.2	97.8	97.4	97.0
98	101.7	101.3	100.9	100.5	100.1	99.6	99.2	98.8	98.4	98.0
99	102.7	102.3	101.9	101.5	101.0	100.6	100.2	99.8	99.4	99.0
100	103.7	103.3	102.9	1025	102.0	101.6	101.2	100.8	100.4	100.0
101	104.7	104.3	103.9	103.4	103.0	102.6	102.2	101.8	101.4	101.0
102	105.7	105.3	104.9	104.4	104.0	103.6	103.2	102.8	102.4	102.0
103	106.6	106.2	105.8	105.4	105.0	104.6	104.2	103.8	103.4	103.0
104	107.6	107.2	106.8	106.4	106.0	105.6	105.2	104.8	104.4	104.0
105	108.6	108.2	107.8	107.4	107.0	106.6	106.2	105.8	105.4	105.0
106	109.6	109.2	108.8	108.4	108.0	107.6	107.2	106.8	106.4	106.0
107	110.6	110.2	109.8	109.4	109.0	108.6	108.2	107.8	107.4	107.0
108	111.6	111.2	110.8	110.4	110.0	109.6	109.2	108.8	108.4	108.0
109	112.6	112.2	111.8	111.4	111.0	110.6	110.2	109.8	109.4	109.0
110	113.6	113.2	112.8	112.4	112.0	111.6	111.2	110.8	110.4	110.0
111	114.5	114.1	113.8	113.4	113.0	112.6	112.2	111.8	111.4	111.0
112	115.5	115.1	114.7	114.4	114.0	113.6	113.2	112.8	112.4	112.0
113	116.5	116.1	115.7	115.3	115.0	114.6	114.2	113.8	113.4	113.0
114	117.5	117.1	116.7	116.3	115.9	115.6	115.2	114.8	114.4	114.0
115	118.5	118.1	117.7	117.3	116.9	116.5	116.2	115.8	115.4	115.0
116	119.5	119.1	118.7	118.3	117.9	117.5	117.2	116.8	116.4	116.0
117	120.5	120.1	119.7	119.3	118.9	118.5	118.2	117.8	117.4	117.0
118	121.4	121.1	120.7	120.3	119.9	119.5	119.1	118.8	118.4	118.0
119	122.4	122.0	121.7	121.3	120.9	120.5	120.1	119.8	119.4	119.0
120	123.4	123.0	122.7	122.3	121.9	121.5	121.1	120.8	120.4	120.0
121	124.4	124.0	123.6	123.3	122.9	122.5	122.1	121.8	121.4	121.0
122	125.4	125.0	124.6	124.3	123.9	123.5	123.1	122.8	122.4	122.0

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°
123	126.4	126.0	125.6	125.3	124.9	124.5	124.1	123.8	123.4	123.0
124	127.4	127.0	126.6	126.2	125.9	125.5	125.1	124.8	124.4	124.0
125	128.4	128.0	127.6	127.2	126.9	126.5	126.1	125.8	125.4	125.0
126	129.4	129.0	128.6	128.2	127.9	127.5	127.1	126.8	126.4	126.0
127	130.3	130.0	129.6	129.2	128.9	128.5	128.1	127.8	127.4	127.0
128	131.3	131.0	130.6	130.2	129.8	129.5	129.1	128.8	128.4	128.0
129	132.3	132.0	131.6	131.2	130.8	130.5	130.1	129.7	129.4	129.0
130	133.3	132.9	132.6	132.2	131.8	131.5	131.1	130.7	130.4	130.0
131	134.3	133.9	133.6	133.2	132.8	132.5	132.1	131.7	131.4	131.0
132	135.3	134.9	134.6	134.2	133.8	133.5	133.1	132.7	132.4	132.0
133	136.3	135.9	135.6	135.2	134.8	134.5	134.1	133.7	133.4	133.0
134	137.3	136.9	136.5	136.2	135.8	135.5	135.1	134.7	134.4	134.0
135	138.3	137.9	137.5	137.2	136.8	136.5	136.1	135.7	135.4	135.0
136	139.2	138.9	138.5	138.2	137.8	137.5	137.1	136.7	136.4	136.0
137	140.2	139.9	139.5	139.2	138.8	138.5	138.1	137.7	137.4	137.0
138	141.2	140.9	140.5	140.2	139.8	139.4	139.1	138.7	138.4	138.0
139	142.2	141.9	141.5	141.2	140.8	140.4	140.1	139.7	139.4	139.0
140	143.2	142.8	142.5	142.2	141.8	141.4	141.1	140.7	140.4	140.0
141	144.2	143.8	143.5	143.1	142.8	142.4	142.1	141.7	141.4	141.0
142	145.2	144.8	144.5	144.1	143.8	143.4	143.1	142.7	142.4	142.0
143	146.2	145.8	145.5	145.1	144.8	144.4	144.1	143.7	143.4	143.0
144	147.1	146.8	146.5	146.1	145.8	145.4	145.1	144.7	144.4	144.0
145	148.1	147.8	147.4	147.1	146.8	146.4	146.1	145.7	145.3	145.0
146	149.1	148.8	148.4	148.1	147.8	147.4	147.1	146.7	146.3	146.0
147	150.1	149.8	149.4	149.1	148.8	148.4	148.1	147.7	147.3	147.0
148	151.1	150.7	150.4	150.1	149.8	149.4	149.1	148.7	148.3	148.0
149	152.1	151.7	151.4	151.1	150.7	150.4	150.1	149.7	149.3	149.0
150	153.1	152.7	152.4	152.1	151.7	151.4	151.1	150.7	150.3	150.0
151	154.1	153.7	153.4	153.1	152.7	152.4	152.0	151.7	151.3	151.0
152	155.1	154.7	154.4	154.1	153.7	153.4	153.0	152.7	152.3	152.0
153	156.0	155.7	155.4	155.0	154.7	154.4	154.0	153.7	153.3	153.0
154	157.0	156.7	156.4	156.0	155.7	155.4	155.0	154.7	154.3	154.0
155	158.0	151.7	157.3	151.0	156.7	156.4	156.0	155.7	155.3	155.0
156	159.0	158.6	158.3	158.0	151.1	157.3	157.0	156.7	156.3	156.0
157	160.0	159.6	159.3	159.0	158.7	158.3	158.0	157.7	157.3	157.0
158	161.0	160.6	160.3	160.0	159.7	159.3	159.0	158.6	158.3	158.0
159	162.0	161.6	161.3	161.0	160.6	160.3	160.0	159.6	159.3	159.0
160	162.9	162.6	162.3	162.0	161.6	161.3	161.0	160.6	160.3	160.0
161	163.9	163.6	163.3	163.0	162.6	162.3	162.0	161.6	161.3	161.0
162	164.9	164.6	164.3	164.0	163.6	163.3	163.0	162.6	162.3	162.0
163	165.9	165.6	165.3	164.9	164.6	164.3	164.0	163.6	163.3	163.0

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
1	0.9	0.8	0.7	0.6	0.4	0.3	0.2	0.0		
2	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.0	0.9	0.8
3	2.9	2.8	2.7	2.6	2.4	2.3	2.2	2.0	1.9	1.7
4	3.9	3.8	3.7	3.5	3.4	3.3	3.2	3.0	2.9	2.7
5	4.9	4.8	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.7
6	5.9	5.8	5.6	5.5	5.4	5.3	5.1	5.0	4.9	4.7
7	6.9	6.8	6.6	6.5	6.4	6.3	6.1	6.0	5.8	5.7
8	7.9	7.8	7.6	7.5	7.4	7.2	7.1	7.0	6.8	6.7
9	8.9	8.7	8.6	8.5	8.4	8.2	8.1	7.9	7.8	7.6
10	9.9	9.7	9.6	9.5	9.3	9.2	9.1	8.9	8.8	8.6
11	10.9	10.7	10.6	10.5	10.3	10.2	10.0	9.9	9.7	9.6
12	11.9	11.7	11.6	11.5	11.3	11.2	11.0	10.9	10.7	10.5
13	12.9	12.7	12.6	12.4	12.3	12.1	12.0	11.8	11.7	11.5
14	13.9	13.7	13.6	13.4	13.3	13.1	13.0	12.8	12.6	12.5
15	14.8	14.7	14.6	14.4	14.2	14.1	13.9	13.8	13.6	13.4
16	15.8	15.7	15.5	15.4	15.2	15.1	14.9	14.7	14.5	14.4
17	16.8	16.7	16.5	16.4	16.2	16.0	15.9	15.7	15.5	15.3
18	17.8	17.7	17.5	17.4	17.2	17.0	16.8	16.7	16.5	16.3
19	18.8	18.7	18.5	18.3	18.2	18.0	17.8	17.6	17.4	17.2
20	19.8	19.7	19.5	19.3	19.1	19.0	18.8	18.6	18.4	18.2
21	20.8	20.7	20.5	20.3	20.1	19.9	19.7	19.5	19.3	19.1
22	21.8	21.6	21.5	21.3	21.1	20.9	20.7	20.5	20.3	20.1
23	22.8	22.6	22.4	22.2	22.0	21.8	21.6	21.4	21.2	21.0
24	23.8	23.6	23.4	23.2	23.0	22.8	22.6	22.4	22.2	22.0
25	24.8	24.6	24.4	24.2	24.0	23.8	23.6	23.3	23.1	22.9
26	25.8	25.6	25.4	25.2	25.0	24.7	24.5	24.3	24.1	23.8
27	26.8	26.6	26.4	26.1	25.9	25.7	25.5	25.2	25.0	24.8
28	27.8	27.6	27.4	27.1	26.9	26.7	26.4	26.2	25.9	25.7
29	28.8	28.5	28.3	28.1	27.9	27.6	27.4	27.1	26.9	26.6
30	29.8	29.5	29.3	29.0	28.8	28.6	28.3	28.1	27.8	27.5
31	30.8	30.5	30.3	30.0	29.8	29.5	29.3	29.0	28.7	28.5
32	31.7	31.5	31.2	31.0	30.7	30.5	30.2	29.9	29.7	29.4
33	32.7	32.5	32.2	31.9	31.7	31.4	31.1	30.9	30.6	30.3
34	33.7	33.5	33.2	32.9	32.6	32.4	32.1	31.8	31.5	31.2
35	34.7	34.4	34.2	33.9	33.6	33.3	33.0	32.7	32.4	32.1
36	35.7	35.4	35.1	34.8	34.5	34.2	33.9	33.6	33.3	33.0
37	36.7	36.4	36.1	35.8	35.5	35.2	34.9	34.6	34.3	33.9
38	37.7	37.4	37.1	36.8	36.4	36.1	35.8	35.5	35.2	34.9
39	38.7	38.4	38.0	37.7	37.4	37.1	36.8	36.4	36.1	35.8
40	39.7	39.4	39.0	38.7	38.4	38.0	37.7	37.4	37.0	36.7
41	40.7	40.3	40.0	39.7	39.3	39.0	38.6	38.3	38.0	37.6

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
42	41.7	41.3	41.0	40.6	40.3	40.0	39.6	39.2	38.9	38.6
43	42.7	42.3	42.0	41.6	41.3	40.9	40.6	40.2	39.8	39.5
44	43.7	43.3	42.9	42.6	42.2	41.9	41.5	41.1	40.8	40.4
45	44.6	44.3	43.9	43.6	43.2	42.8	42.5	42.1	41.7	41.4
46	45.6	45.3	44.9	44.5	44.2	43.8	43.4	43.0	42.7	42.3
47	46.6	46.3	45.9	45.5	45.1	44.7	44.4	44.0	43.6	43.3
48	47.6	47.2	46.9	46.5	46.1	45.7	45.3	44.9	44.6	44.2
49	48.6	48.2	47.8	47.4	47.0	46.7	46.3	45.9	45.5	45.1
50	49.6	49.2	48.8	48.4	48.0	47.6	47.2	46.8	46.5	46.1
51	50.6	50.2	49.8	49.4	49.0	48.6	48.2	47.8	47.4	47.0
52	51.6	51.2	50.8	50.4	50.0	49.6	49.2	48.8	48.4	48.0
63	52.6	52.2	51.8	51.4	51.0	50.5	50.1	49.7	49.3	48.9
54	53.6	53.2	52.8	52.3	51.9	51.5	51.1	50.7	50.3	49.8
55	54.6	54.2	53.7	53.3	52.9	52.5	52.0	51.6	51.2	50.8
56	55.6	55.2	54.7	54.3	53.8	53.4	53.0	52.6	52.2	51.7
57	56.6	56.1	55.7	55.3	54.8	54.4	54.0	53.5	53.1	52.7
58	57.6	57.1	56.7	56.2	55.8	55.4	54.9	54.5	54.1	53.6
59	58.6	58.1	57.7	57.2	56.8	56.3	55.9	55.5	55.0	54.6
60	59.5	59.1	58.6	58.2	57.8	57.3	56.9	56.4	56.0	55.6
61	60.5	60.1	59.6	59.2	58.7	58.3	57.8	57.4	57.0	56.5
62	61.5	61.1	60.6	60.2	59.7	59.3	58.8	58.4	58.0	57.5
63	62.5	62.1	61.6	61.2	60.7	60.3	59.8	59.4	58.9	58.5
64	63.5	63.1	62.6	62.2	61.7	61.3	60.8	60.4	59.9	59.5
65	64.5	64.1	63.6	63.2	62.7	62.3	61.8	61.4	60.9	60.5
66	65.5	65.1	64.6	64.2	63.7	63.3	62.8	62.4	61.9	61.5
67	66.5	66.1	65.6	65.2	64.7	64.3	63.8	63.4	62.9	62.5
68	67.5	67.1	66.6	66.2	65.7	65.3	64.8	64.4	63.9	63.5
69	68.5	68.1	67.6	67.2	66.7	66.3	65.8	65.4	64.9	64.5
70	69.5	69.1	68.6	68.2	67.7	67.3	66.8	66.4	65.9	65.5
71	70.5	70.1	69.6	69.2	68.7	68.3	67.8	67.4	66.9	66.5
72	71.5	71.1	70.6	70.2	69.7	69.3	68.8	68.4	67.9	67.5
73	72.5	72.1	71.6	71.2	70.7	70.3	69.8	69.4	68.9	68.5
74	73.5	73.1	72.6	72.2	71.7	71.3	70.8	70.4	69.9	69.5
75	74.5	74.1	73.6	73.2	72.7	72.3	71.8	71.4	70.9	70.5
76	75.5	75.1	74.6	74.2	73.7	73.3	72.8	72.4	71.9	71.5
77	76.5	76.1	75.6	75.2	74.8	74.3	73.8	73.4	72.9	72.5
78	77.5	77.1	76.6	76.2	75.8	75.3	74.8	74.4	73.9	73.5
79	78.5	78.1	77.6	77.2	76.8	76.3	75.9	75.4	75.0	74.5
80	79.5	79.1	78.6	78.2	77.8	77.3	76.9	76.4	76.0	75.5
81	80.5	80.1	79.6	79.2	78.8	78.3	77.9	77.4	77.0	76.5
82	81.5	81.1	80.6	80.2	79.8	79.3	78.9	78.4	78.0	77.5

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
83	82.5	82.1	81.7	81.2	80.8	80.3	79.9	79.5	79.0	78.6
84	83.5	83.1	82.7	82.2	81.8	81.4	80.9	80.5	80.0	79.6
85	84.6	84.1	83.7	83.2	82.8	82.4	81.9	81.5	81.0	80.6
86	85.6	85.1	84.7	84.2	83.8	83.4	82.9	82.5	82.0	81.6
87	86.6	86.1	85.7	85.2	84.8	84.4	83.9	83.5	83.0	82.6
88	87.6	87.1	86.7	86.3	85.8	85.4	84.9	84.5	84.1	83.6
89	88.6	88.1	87.7	87.3	86.8	86.4	86.0	85.5	85.1	84.6
90	89.6	89.1	88.7	88.3	87.8	87.4	87.0	86.5	86.1	85.7
91	90.6	90.1	89.7	89.3	88.8	88.4	88.0	87.5	87.1	86.7
92	91.6	91.1	90.7	90.3	89.8	89.4	89.0	88.5	88.1	87.7
93	92.6	92.1	91.7	91.3	90.8	90.4	90.0	89.6	89.1	88.7
94	93.6	93.1	92.7	92.3	91.9	91.4	91.0	90.6	90.1	89.7
95	94.6	94.1	93.7	93.3	92.9	92.4	92.0	91.6	91.2	90.7
96	95.6	95.1	94.7	94.3	93.9	93.5	93.0	92.6	92.2	91.8
97	96.6	96.1	95.7	95.3	94.9	94.5	94.0	93.6	93.2	92.8
98	97.6	97.2	96.7	96.3	95.9	95.5	95.1	94.6	94.2	93.8
99	98.6	98.2	97.7	97.3	96.9	96.5	96.1	95.7	95.2	94.8
100	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.2	95.8
101	100.6	100.2	99.8	99.3	98.9	98.5	98.1	97.7	97.3	96.8
102	101.6	101.2	100.8	100.3	99.9	99.5	99.1	98.7	98.3	97.8
103	102.6	102.2	101.8	101.3	100.9	100.5	100.1	99.7	99.3	98.9
104	103.6	103.2	102.8	102.3	101.9	101.5	101.1	100.7	100.3	99.9
105	104.6	104.2	103.8	103.4	102.9	102.5	102.1	101.7	101.3	100.9
106	105.6	105.2	104.8	104.4	104.0	103.5	103.1	102.7	102.3	101.9
107	106.6	106.2	105.8	105.4	105.0	104.6	104.2	103.7	103.3	102.9
108	107.6	107.2	106.8	106.4	106.0	105.6	105.2	104.8	104.3	103.9
109	108.6	108.2	107.8	107.4	107.0	106.6	106.2	105.8	105.4	104.9
110	109.6	109.2	108.8	108.4	108.0	107.6	107.2	106.8	106.4	106.0
111	110.6	110.2	109.8	109.4	109.0	108.6	108.2	107.8	107.4	107.0
112	111.6	111.2	110.8	110.4	110.0	109.6	109.2	108.8	108.4	108.0
113	112.6	112.2	111.8	111.4	111.0	110.6	110.2	109.8	109.4	109.0
114	113.6	113.2	112.8	112.4	112.0	111.6	111.2	110.8	110.4	110.0
115	114.6	114.2	113.8	113.4	113.0	112.6	112.2	111.8	111.4	111.0
116	115.6	115.2	114.8	114.4	114.0	113.6	113.2	112.8	112.4	112.0
117	116.6	116.2	115.8	115.4	115.0	114.6	114.2	113.9	113.5	113.1
118	117.6	117.2	116.8	116.4	116.0	115.6	115.3	114.9	114.5	114.1
119	118.6	118.2	117.8	117.4	117.0	116.7	116.3	115.9	115.5	115.1
120	119.6	119.2	118.8	118.4	118.1	117.7	117.3	116.9	116.5	116.1
121	120.6	120.2	119.8	119.5	119.1	118.7	118.3	117.9	117.5	117.1
122	121.6	121.2	120.8	120.5	120.1	119.7	119.3	118.9	118.5	118.1
123	122.6	122.2	121.9	121.5	121.1	120.7	120.3	119.9	119.5	119.1

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
124	123.6	123.2	122.9	122.5	122.1	121.7	121.3	120.9	120.5	120.2
125	124.6	124.2	123.9	123.5	123.1	122.7	122.3	121.9	121.6	121.2
126	125.6	125.2	124.9	124.5	124.1	123.7	123.3	123.0	122.6	122.2
127	126.6	126.2	125.9	125.5	125.1	124.7	124.3	124.0	123.6	123.2
128	127.6	127.2	126.9	126.5	126.1	125.7	125.3	125.0	124.6	124.2
129	128.6	128.2	127.9	127.5	127.1	126.7	126.4	126.0	125.6	125.2
130	129.6	129.2	128.9	128.5	128.1	127.7	127.4	127.0	126.6	126.2
131	130.6	130.2	129.9	129.5	129.1	128.8	128.4	128.0	127.6	127.2
132	131.6	131.2	130.9	130.5	130.1	129.8	129.4	129.0	128.6	128.3
133	132.6	132.3	131.9	131.5	131.1	130.8	130.4	130.0	129.7	129.3
134	133.6	133.3	132.9	132.5	132.1	131.8	131.4	131.0	130.7	130.3
135	134.6	134.3	133.9	133.5	133.2	132.8	132.4	132.0	131.7	131.3
136	135.6	135.3	134.9	134.5	134.2	133.8	133.4	133.1	132.7	132.3
137	136.6	136.3	135.9	135.5	135.2	134.8	134.4	134.1	133.7	133.3
138	137.6	137.3	136.9	136.5	136.2	135.8	135.4	135.1	134.7	134.3
139	138.6	138.3	137.9	137.6	137.2	136.8	136.4	136.1	135.7	135.4
140	139.6	139.3	138.9	138.6	138.2	137.8	137.5	137.1	136.7	136.4
141	140.6	140.3	139.9	139.6	139.2	138.8	138.5	138.1	137.7	137.4
142	141.6	141.3	140.9	140.6	140.2	139.8	139.5	139.1	138.8	138.4
143	142.6	142.3	141.9	141.6	141.2	140.8	140.5	140.1	139.8	139.4
144	143.6	143.3	142.9	142.6	142.2	141.9	141.5	141.1	140.8	140.4
145	144.6	144.3	143.9	143.6	143.2	142.9	142.5	142.2	141.8	141.4
146	145.7	145.3	144.9	144.6	144.2	143.9	143.5	143.2	142.8	142.4
147	146.7	146.3	145.9	145.6	145.2	144.9	144.5	144.2	143.8	143.5
148	147.7	147.3	147.0	146.6	146.3	145.9	145.5	145.2	144.8	144.5
149	148.7	148.3	148.0	147.6	147.3	146.9	146.5	146.2	145.8	145.5
150	149.7	149.3	149.0	148.6	148.3	147.9	147.6	147.2	146.9	146.5
151	150.7	150.3	150.0	149.6	149.3	148.9	148.6	148.2	147.9	147.5
152	151.7	151.3	151.0	150.6	150.3	149.9	149.6	149.2	148.9	148.5
153	152.7	152.3	152.0	151.6	151.3	150.9	150.6	150.2	149.9	149.5
154	153.7	153.3	153.0	152.6	152.3	151.9	151.6	151.3	150.9	150.6
155	154.7	154.3	154.0	153.6	153.3	152.9	152.6	152.3	151.9	151.6
156	155.7	155.3	155.0	154.6	154.3	154.0	153.6	153.3	152.9	152.6
157	156.7	156.3	156.0	155.6	155.3	155.0	154.6	154.3	154.0	153.6
158	157.7	157.3	157.0	156.6	156.3	156.0	155.6	155.3	155.0	154.6
159	158.7	158.3	158.0	157.6	157.3	157.0	156.7	156.3	156.0	155.6
160	159.7	159.3	159.0	158.6	158.3	158.0	157.7	157.3	157.0	156.6
161	160.7	160.3	160.0	159.7	159.3	159.0	158.7	158.3	158.0	157.7
162	161.7	161.3	161.0	160.7	160.4	160.0	159.7	159.4	159.0	158.7
163	162.7	162.4	162.0	161.7	161.4	161.0	160.7	160.4	160.0	159.7
164	163.7	163.4	163.0	162.7	162.4	162.0	161.7	161.4	161.1	160.7

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
165	164.7	164.4	164.0	163.7	163.4	163.0	162.7	162.4	162.1	161.7
166	165.7	165.4	165.0	164.7	164.4	164.1	163.7	163.4	163.1	162.8
167	166.7	166.4	166.0	165.7	165.4	165.1	164.7	164.4	164.1	163.8
168	167.7	167.4	167.0	166.7	166.4	166.1	165.8	165.4	165.1	164.8
169	168.7	168.4	168.0	167.7	167.4	167.1	166.8	166.5	166.1	165.8
170	169.7	169.4	169.0	168.7	168.4	168.1	167.8	167.5	167.2	166.8
171	170.7	170.4	170.1	169.7	169.4	169.1	168.8	168.5	168.2	167.9
172	171.7	171.4	171.1	170.8	170.4	170.1	169.8	169.5	169.2	168.9
173	172.7	172.4	172.1	171.8	171.5	171.1	170.8	170.5	170.2	169.9
174	173.7	173.4	173.1	172.8	172.5	172.2	171.8	171.6	171.2	170.9
175	174.7	174.4	174.1	173.8	173.5	173.2	172.9	172.6	172.3	172.0
176	175.7	175.4	175.1	174.8	174.5	174.2	173.9	173.6	173.3	173.0
177	176.7	176.4	176.1	175.8	175.5	175.2	174.9	174.6	174.3	174.0
178	177.7	177.4	177.1	176.8	176.5	176.2	176.0	175.7	175.4	175.0
179	178.7	178.4	178.1	177.8	177.5	177.3	177.0	176.7	176.4	176.1
180	179.7	179.4	179.1	178.8	178.6	178.3	178.0	177.7	177.4	177.1
181	180.7	180.4	180.1	179.9	179.6	179.3	179.0	178.7	178.4	178.1
182	181.7	181.4	181.2	180.9	180.6	180.3	180.0	179.8	179.5	179.2
183	182.7	182.4	182.2	181.9	181.6	181.3	181.1	180.8	180.5	180.2
184	183.7	183.5	183.2	182.9	182.6	182.4	182.1	181.8	181.5	181.3
185	184.7	184.5	184.2	183.9	183.7	183.4	183.1	182.8	182.6	182.3
186	185.7	185.5	185.2	185.0	184.7	184.4	184.1	183.9	183.6	183.3
187	186.7	186.5	186.2	186.0	185.7	185.4	185.2	184.9	184.6	184.4
188	187.7	187.5	187.2	187.0	186.7	186.5	186.2	186.0	185.7	185.4
189	188.8	188.5	188.3	188.0	187.8	187.5	187.3	187.0	186.7	186.5
190	189.8	189.5	189.3	189.0	188.8	188.5	188.3	188.0	187.8	187.5
191	190.8	190.5	190.3	190.1	189.8	189.6	189.3	189.1	188.8	188.6
192	191.8	191.5	191.3	191.1	190.8	190.6	190.4	190.1	189.9	189.6
193	192.8	192.5	192.3	192.1	191.9	191.6	191.4	191.2	190.9	190.7
194	193.8	193.6	193.3	193.1	192.9	192.7	192.4	192.2	192.0	191.7
195	194.8	194.6	194.4	194.1	193.9	193.7	193.5	193.3	193.0	192.8
196	195.8	195.6	195.4	195.2	195.0	194.7	194.5	194.3	194.1	193.9
197	196.8	196.6	196.4	196.2	196.0	195.8	195.6	195.4	195.1	194.9
198	197.8	197.6	197.4	197.2	197.0	196.8	196.6	196.4	196.2	196.0
199	198.8	198.6	198.4	198.2	198.1	197.9	197.7	197.5	197.3	197.1
200	199.8	199.6	199.5	199.3	199.1	198.9	198.7	198.5	198.3	198.1
201	-----	-----	-----	-----	-----	200.0	199.8	199.6	199.4	199.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	0.6	0.5	0.3	0.1	0.0	-----	-----	-----	-----	-----
3	1.6	1.4	1.3	1.1	1.0	0.8	0.6	0.5	0.3	0.1
4	2.6	2.4	2.3	2.1	2.0	1.8	1.6	1.4	1.3	1.1
5	3.6	3.4	3.3	3.1	2.9	2.8	2.6	2.4	2.2	2.0
6	4.6	4.4	4.2	4.1	3.9	3.7	3.6	3.4	3.2	3.0
7	5.5	5.4	5.2	5.0	4.9	4.7	4.5	4.3	4.2	4.0
8	6.5	6.3	6.2	6.0	5.8	5.7	5.5	5.3	5.1	4.9
9	7.5	7.3	7.1	7.0	6.8	6.6	6.4	6.2	6.1	5.9
10	8.4	8.3	8.1	7.9	7.8	7.6	7.4	7.2	7.0	6.8
11	9.4	9.2	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.7
12	10.4	10.2	10.0	9.8	9.7	9.5	9.3	9.1	8.9	8.7
13	11.3	11.2	11.0	10.8	10.6	10.4	10.2	10.0	9.8	9.6
14	12.3	12.1	11.9	11.7	11.6	11.4	11.2	11.0	10.8	10.5
15	13.2	13.1	12.9	12.7	12.5	12.3	12.1	11.9	11.7	11.5
16	14.2	14.0	13.8	13.6	13.4	13.2	13.0	12.8	12.6	12.4
17	15.1	15.0	14.8	14.6	14.4	14.2	14.0	13.7	13.5	13.3
18	16.1	15.9	15.7	15.5	15.3	15.1	14.9	14.7	14.4	14.2
19	17.0	16.9	16.6	16.4	16.2	16.0	15.8	15.6	15.3	15.1
20	18.0	17.8	17.6	17.4	17.1	16.9	16.7	16.5	16.3	16.0
21	18.9	18.7	18.5	18.3	18.1	17.8	17.6	17.4	17.2	16.9
22	19.9	19.7	19.4	19.2	19.0	18.8	18.5	18.3	18.1	17.8
23	20.8	20.6	20.4	20.2	19.9	19.7	19.5	19.2	19.0	18.7
24	21.8	21.5	21.3	21.1	20.8	20.6	20.4	20.1	19.9	19.6
25	22.7	22.5	22.2	22.0	21.7	21.5	21.3	21.0	20.8	20.5
26	23.6	23.4	23.1	22.9	22.6	22.4	22.2	21.9	21.6	21.4
27	24.5	24.3	24.0	23.8	23.5	23.3	23.0	22.8	22.5	22.3
28	25.4	25.2	24.9	24.7	24.4	24.2	23.9	23.7	23.4	23.1
29	26.4	26.1	25.8	25.6	25.3	25.1	24.8	24.5	24.3	24.0
30	27.3	27.0	26.7	26.5	26.2	25.9	25.7	25.4	25.1	24.8
31	28.2	27.9	27.6	27.4	27.1	26.8	26.5	26.3	26.0	25.7
32	29.1	28.8	28.5	28.2	28.0	27.7	27.4	27.1	26.8	26.6
33	30.0	29.7	29.4	29.1	28.8	28.6	28.3	28.0	27.7	27.4
34	30.9	30.6	30.3	30.0	29.7	29.4	29.1	28.8	28.5	28.3
35	31.8	31.5	31.2	30.9	30.6	30.3	30.0	29.7	29.4	29.1
36	32.7	32.4	32.1	31.8	31.5	31.2	30.9	30.6	30.3	30.0
37	33.6	33.3	33.0	32.7	32.4	32.0	31.7	31.4	31.1	30.8
38	34.5	34.2	33.9	33.6	33.2	32.9	32.6	32.3	32.0	31.7
39	35.4	35.1	34.8	34.5	34.1	33.8	33.5	33.2	32.8	32.5
40	36.4	36.0	35.7	35.4	35.0	34.7	34.4	34.0	33.7	33.4
41	37.3	37.0	36.6	36.3	35.9	35.6	35.3	34.9	34.6	34.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
42	38.2	37.9	37.5	37.2	36.8	36.5	36.2	35.8	35.5	35.1
43	39.2	38.8	38.5	38.1	37.8	37.4	37.1	36.7	36.3	36.0
44	40.1	39.7	39.4	39.0	38.7	38.3	38.0	37.6	37.2	36.9
45	41.0	40.7	40.3	40.0	39.6	39.2	38.9	38.5	38.1	37.8
46	42.0	41.6	41.2	40.9	40.5	40.1	39.8	39.4	39.0	38.7
47	42.9	42.5	42.2	41.8	41.4	41.0	40.7	40.3	39.9	39.5
48	43.8	43.5	43.1	42.7	42.3	41.9	41.6	41.2	40.8	40.4
49	44.8	44.4	44.0	43.6	43.2	42.8	42.5	42.1	41.7	41.3
50	45.7	45.3	44.9	44.5	44.2	43.8	43.4	43.0	42.6	42.2
51	46.6	46.2	45.8	45.5	45.1	44.7	44.3	43.9	43.5	43.1
52	47.6	47.2	46.8	46.4	46.0	45.6	45.2	44.8	44.4	44.0
53	48.5	48.1	47.7	47.3	46.9	46.5	46.1	45.7	45.3	44.9
54	49.4	49.0	48.6	48.2	47.4	47.4	47.0	46.6	46.2	45.8
55	50.4	50.0	49.6	49.2	48.7	48.3	47.9	47.5	47.1	46.7
56	51.3	50.9	50.5	50.1	49.7	49.2	48.8	48.4	48.0	47.6
57	52.3	51.9	51.4	51.0	50.6	50.2	49.8	49.4	48.9	48.5
58	53.2	52.8	52.4	51.9	51.5	51.1	50.7	50.3	49.9	49.4
59	54.2	53.8	53.3	52.9	52.5	52.0	51.6	51.2	50.8	50.4
60	55.1	54.7	54.3	53.8	53.4	3.0	52.6	52.1	51.7	51.3
61	56.1	55.7	55.2	54.8	54.4	53.9	53.5	53.1	52.6	52.2
62	57.1	56.6	56.2	55.8	55.3	54.9	54.5	54.0	53.6	53.2
63	58.1	57.6	57.2	56.7	56.3	55.8	55.4	55.0	54.5	54.1
64	59.0	58.6	58.2	57.7	57.3	56.8	56.4	55.9	55.5	55.1
65	60.0	59.6	59.1	58.7	58.2	57.8	57.4	56.9	56.5	56.0
66	61.0	60.6	60.1	59.7	59.2	58.8	58.3	57.9	57.4	57.0
67	62.0	61.6	61.1	60.7	60.2	59.8	59.3	58.9	58.4	58.0
68	63.0	62.6	62.1	61.6	61.2	60.7	60.3	59.8	59.4	58.9
69	64.0	63.6	63.1	62.6	62.2	61.7	61.3	60.8	60.4	59.9
70	65.0	64.6	64.1	63.6	63.2	62.7	62.3	61.8	61.4	60.9
71	66.0	65.6	65.1	64.6	64.2	63.7	63.3	62.8	62.4	61.9
72	67.0	66.6	66.1	65.6	65.2	64.7	64.3	63.8	63.4	62.9
73	68.0	67.6	67.1	66.7	66.2	65.7	65.3	64.8	64.4	63.9
74	69.0	68.6	68.1	67.7	67.2	66.8	66.3	65.8	65.4	64.9
75	70.0	69.6	69.1	68.7	68.2	67.8	67.3	66.8	66.4	65.9
76	71.0	70.6	70.1	69.7	69.2	68.8	68.3	67.9	67.4	67.0
77	72.0	71.6	71.1	70.7	70.2	69.8	69.3	68.9	68.4	68.0
78	73.0	72.6	72.1	71.7	71.2	70.8	70.4	69.9	69.4	69.0
79	74.1	73.6	73.2	72.7	72.3	71.8	71.4	70.9	70.5	70.0
80	75.1	74.6	74.2	73.7	73.3	72.8	72.4	72.0	71.5	71.0
81	76.1	75.6	75.2	74.7	74.3	73.9	73.4	73.0	72.5	72.1
82	77.1	76.7	76.2	75.8	75.3	74.9	74.4	74.0	73.5	73.1

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
83	78.1	77.7	77.2	76.8	76.3	75.9	75.5	75.0	74.6	74.1
84	79.1	78.7	78.2	77.8	77.4	76.9	76.5	76.0	75.6	75.1
85	80.1	79.7	79.3	78.8	78.4	78.0	77.5	77.1	76.6	76.1
86	81.2	80.7	80.3	79.8	79.4	79.0	78.5	78.1	77.6	77.2
87	82.2	81.7	81.3	80.9	80.4	80.0	79.6	79.1	78.7	78.2
88	83.2	82.8	82.3	81.9	81.4	81.0	80.6	80.1	79.7	79.2
89	8.2	83.8	83.3	82.9	82.5	82.0	81.6	81.1	80.7	80.3
90	85.2	8.8	84.4	83.9	83.5	83.1	82.6	82.2	81.7	81.3
91	86.2	85.8	85.4	84.9	84.5	84.1	83.6	83.2	82.8	82.3
92	87.3	86.8	86.4	86.0	85.5	85.1	84.7	84.2	83.8	83.3
93	88.3	87.8	87.4	87.0	86.6	86.1	85.7	85.2	84.8	84.4
94	89.3	88.9	88.4	88.0	87.6	87.1	86.7	86.3	85.8	85.4
95	90.3	89.9	89.5	89.0	88.6	88.2	87.7	87.3	86.9	86.4
96	91.3	90.9	90.5	90.1	89.6	89.2	88.8	88.3	87.9	87.5
97	92.3	91.9	91.5	91.1	90.6	90.2	89.8	89.4	88.9	88.5
98	93.4	92.9	92.5	92.1	91.7	91.2	90.8	90.4	90.0	89.5
99	94.4	94.0	93.5	93.1	92.7	92.3	91.8	91.4	91.0	90.6
100	95.4	95.0	94.6	94.1	93.7	93.3	92.9	92.4	92.0	91.6
101	96.4	96.0	95.6	95.2	94.7	94.3	93.9	93.5	93.0	92.6
102	97.4	97.0	96.6	96.2	95.8	95.3	94.9	94.5	94.1	93.7
103	98.4	98.0	97.6	97.2	96.8	96.4	95.9	95.5	95.1	94.7
104	99.5	99.0	98.6	98.2	97.8	97.4	97.0	96.6	96.1	95.7
105	100.5	100.1	99.7	99.2	98.8	98.4	98.0	97.6	97.2	96.8
106	101.5	101.1	100.7	100.3	99.8	99.4	99.0	98.6	98.2	97.8
107	102.5	102.1	101.7	101.3	100.9	100.5	100.0	99.6	99.2	98.8
108	103.5	103.1	102.7	102.3	101.9	101.5	101.1	100.7	100.3	99.8
109	104.5	104.1	103.7	103.3	102.9	102.5	102.1	101.7	101.3	100.9
110	105.6	105.2	104.7	104.3	103.9	103.5	103.1	102.7	102.3	101.9
111	106.6	106.2	105.8	105.4	105.0	104.5	104.1	103.7	103.3	102.9
112	107.6	107.2	106.8	106.4	106.0	105.6	105.2	104.8	104.4	103.9
113	108.6	108.2	107.8	107.4	107.0	106.6	106.2	105.8	105.4	105.0
114	109.6	109.2	108.8	108.4	108.0	107.6	107.2	106.8	106.4	106.0
115	110.6	110.2	109.8	109.4	109.0	108.6	108.2	107.8	107.4	107.0
116	111.7	111.3	110.9	110.5	110.1	109.7	109.2	108.8	108.4	108.0
117	112.7	112.3	111.9	111.5	111.1	110.7	110.3	109.9	109.5	109.1
118	113.7	113.3	112.9	112.5	112.1	111.7	111.3	110.9	110.5	110.1
119	114.7	114.3	113.9	113.5	113.1	112.7	112.3	111.9	111.5	111.1
120	115.7	115.3	114.9	114.5	114.1	113.7	113.3	112.9	112.5	112.1
121	116.7	116.3	115.9	115.6	115.2	114.8	114.4	114.0	113.6	113.2
122	117.7	117.4	117.0	116.6	116.2	115.8	115.4	115.0	114.6	114.2
123	118.8	118.4	118.0	117.6	117.2	116.8	116.4	116.0	115.6	115.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
124	119.8	119.4	119.0	118.6	118.2	117.8	117.4	117.0	116.6	116.2
125	120.8	120.4	120.0	119.6	119.2	118.8	118.4	118.1	117.7	117.3
126	121.8	121.4	121.0	120.6	120.2	119.9	119.5	119.1	118.7	118.3
127	122.8	122.4	122.0	121.7	121.3	120.9	120.5	120.1	119.7	119.3
128	123.8	123.4	123.1	122.7	122.3	121.9	121.5	121.1	120.7	120.3
129	124.8	124.5	124.1	123.7	123.3	122.9	122.5	122.1	121.8	121.4
130	125.9	125.5	125.1	124.7	124.3	123.9	123.6	123.2	122.8	122.4
131	126.9	126.5	126.1	125.7	125.3	125.0	124.6	124.2	123.8	123.4
132	127.9	127.5	127.1	126.7	126.4	126.0	125.6	125.2	124.8	124.4
133	128.9	128.5	128.1	127.8	127.4	127.0	126.6	126.2	125.9	125.5
134	129.9	129.5	129.2	128.8	128.4	128.0	127.6	127.3	126.9	126.5
135	130.9	130.6	130.2	129.8	129.4	129.0	128.7	128.3	127.9	127.5
136	131.9	131.6	131.2	130.8	130.4	130.1	129.7	129.3	128.9	128.5
137	133.0	132.6	132.2	131.8	131.5	131.1	130.7	130.3	129.9	129.6
138	134.0	133.6	133.2	132.8	132.5	132.1	131.7	131.4	131.0	130.6
139	135.0	134.6	134.2	133.9	133.5	133.1	132.8	132.4	132.0	131.6
140	136.0	135.6	135.3	134.9	134.5	134.1	133.8	133.4	133.0	132.6
141	137.0	136.7	136.3	135.9	135.5	135.2	134.8	134.4	134.0	133.7
142	138.0	137.7	137.3	136.9	136.6	136.2	135.8	135.4	135.1	134.7
143	139.0	138.7	138.3	137.9	137.6	137.2	136.8	136.5	136.1	135.7
144	140.1	139.7	139.3	139.0	138.6	138.2	137.9	137.5	137.1	136.8
145	141.1	140.7	140.4	140.0	139.6	139.3	138.9	138.5	138.2	137.8
146	142.1	141.7	141.4	141.0	140.6	140.3	139.9	139.5	139.2	138.8
147	143.1	142.7	142.4	142.0	141.7	141.3	140.9	140.6	140.2	139.8
148	144.1	143.8	143.4	143.0	142.7	142.3	142.0	141.6	141.2	140.9
149	145.1	144.8	144.4	144.1	143.7	143.4	143.0	142.6	142.3	141.9
150	146.1	145.8	145.4	145.1	144.7	144.4	144.0	143.6	143.3	142.9
151	147.2	146.8	146.5	146.1	145.7	145.4	145.0	144.7	144.3	143.9
152	148.2	147.8	147.5	147.1	146.8	146.4	146.1	145.7	145.3	145.0
153	149.2	148.8	148.5	148.1	147.8	147.4	147.1	146.7	146.4	146.0
154	150.2	149.9	149.5	149.2	148.8	148.5	148.1	147.8	147.4	147.0
155	151.2	150.9	150.5	150.2	149.8	149.5	149.1	148.8	148.4	148.1
156	152.2	151.9	151.5	151.2	150.9	150.5	150.2	149.8	149.5	149.1
157	153.3	152.9	152.6	152.2	151.9	151.5	151.2	150.8	150.5	150.1
158	154.3	153.9	153.6	153.2	152.9	152.6	152.2	151.9	151.5	151.2
159	155.3	154.9	154.6	154.3	153.9	153.6	153.2	152.9	152.5	152.2
160	156.3	156.0	155.6	155.3	154.9	154.6	154.3	153.9	153.6	153.2
161	157.3	157.0	156.6	156.3	156.0	155.6	155.3	154.9	154.6	154.3
162	158.3	158.0	157.7	157.3	157.0	156.7	156.3	156.0	155.6	155.3
163	159.4	159.0	158.7	158.4	158.0	157.7	157.3	157.0	156.7	156.3
164	160.4	160.1	159.7	159.4	159.0	158.7	158.4	158.0	157.7	157.4

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
165	161.4	161.1	160.7	160.4	160.1	159.7	159.4	159.1	158.7	158.4
166	162.4	162.1	161.8	161.4	161.1	160.8	160.4	160.1	159.8	159.4
167	163.4	163.1	162.8	162.5	162.1	161.8	161.5	161.1	160.8	160.5
168	164.5	164.1	163.8	163.5	163.2	162.8	162.5	162.2	161.8	161.5
169	165.5	165.2	164.8	164.5	164.2	163.9	163.5	163.2	162.9	162.5
170	166.5	166.2	165.9	165.5	165.2	164.9	164.6	164.2	163.9	163.6
171	167.5	167.2	166.9	166.6	166.2	165.9	165.6	165.3	164.9	164.6
172	168.6	168.2	167.9	167.6	167.3	167.0	166.6	166.3	166.0	165.7
173	169.6	169.3	169.0	168.6	168.3	168.0	167.7	167.4	167.0	166.7
174	170.6	170.3	170.0	169.7	169.3	169.0	168.7	168.4	168.1	167.7
175	171.6	171.3	171.0	170.7	170.4	170.1	169.8	169.4	169.1	168.8
176	172.7	172.4	172.1	171.7	171.4	171.1	170.8	170.5	170.2	169.8
177	173.7	173.4	173.1	172.8	172.5	172.2	171.8	171.5	171.2	170.9
178	174.7	174.4	174.1	173.8	173.5	173.2	172.9	172.6	172.3	172.0
179	175.8	175.5	175.2	174.9	174.6	174.3	173.9	173.6	173.3	173.0
180	176.8	176.5	176.2	175.9	175.6	175.3	175.0	174.7	174.4	174.1
181	177.8	177.6	177.3	177.0	176.7	176.4	176.1	175.8	175.5	175.1
182	178.9	178.6	178.3	178.0	177.7	177.4	177.1	176.8	176.5	176.2
183	179.9	179.6	179.4	179.1	178.8	178.5	178.2	177.9	177.6	177.3
184	181.0	180.7	180.4	180.1	179.8	179.5	179.2	179.0	178.7	178.4
185	182.0	181.7	181.5	181.2	180.9	180.6	180.3	180.0	179.7	179.4
186	183.1	182.8	182.5	182.2	181.9	181.7	181.4	181.1	180.8	180.5
187	184.1	183.8	183.6	183.3	183.0	182.7	182.5	182.2	181.9	181.6
188	185.2	184.9	184.6	184.4	184.1	183.8	183.5	183.3	183.0	182.7
189	186.2	186.0	185.7	185.4	185.2	184.9	184.6	184.4	184.1	183.8
190	187.3	187.0	186.8	186.5	186.2	186.0	185.7	185.4	185.2	184.9
191	188.3	188.1	187.8	187.6	187.3	187.0	186.8	186.5	186.2	186.0
192	189.4	189.1	188.9	188.6	188.4	188.1	187.9	187.6	187.3	187.1
193	190.4	190.2	190.0	189.7	189.5	189.2	189.0	188.7	188.4	188.2
194	191.5	191.3	191.0	190.8	190.5	190.3	190.0	189.8	189.5	189.3
195	192.6	192.3	192.1	191.9	191.6	191.4	191.1	190.9	190.7	190.4
196	193.6	193.4	193.2	192.9	192.7	192.5	192.2	192.0	191.8	191.5
197	194.7	194.5	194.3	194.0	193.8	193.6	193.4	193.1	192.9	192.7
198	195.8	195.6	195.3	195.1	194.9	194.7	194.5	194.3	194.0	193.8
199	196.9	196.6	196.4	196.2	196.0	195.8	195.6	195.4	195.2	195.0
200	197.9	197.7	197.5	197.3	197.1	196.9	196.7	196.5	196.3	196.1
201	198.9	198.8	198.6	198.4	198.2	198.0	197.8	197.6	197.5	197.3
202	200.0	199.9	199.7	199.5	199.3	199.2	199.0	198.8	198.7	198.5
203	-----	-----	-----	-----	-----	-----	-----	200.0	199.9	199.7

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4	0.9	0.7	0.5	0.1	0.1	-----	-----	-----	-----	-----
5	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5	0.2	0.0
6	2.8	2.6	2.4	2.2	2.0	1.8	1.6	1.4	1.2	1.0
7	3.8	3.6	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.9
8	4.7	4.5	4.3	4.1	3.9	3.7	3.5	3.3	3.0	2.8
9	5.7	5.5	5.3	5.1	4.8	4.6	4.4	4.2	4.0	3.7
10	6.6	6.4	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.7
11	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.0	5.8	5.6
12	8.5	8.3	8.1	7.8	7.6	7.4	7.2	6.9	6.7	6.5
13	9.4	9.2	9.0	8.8	8.5	8.3	8.1	7.8	7.6	7.4
14	10.3	10.1	9.9	9.7	9.4	9.2	9.0	8.8	8.5	8.3
15	11.3	11.0	10.8	10.6	10.4	10.1	9.9	9.6	9.4	9.2
16	12.2	12.0	11.7	11.5	11.3	11.0	10.8	10.5	10.3	10.0
17	13.1	12.9	12.6	12.4	12.2	11.9	11.7	11.4	11.2	10.9
18	14.0	13.8	13.5	13.3	13.0	12.8	12.6	12.3	12.0	11.8
19	14.9	14.7	14.4	14.2	13.9	13.7	13.4	13.2	12.9	12.6
20	15.8	15.6	15.3	15.1	14.8	14.6	14.3	14.0	13.8	13.5
21	16.7	16.4	16.2	15.9	15.7	15.4	15.2	14.9	14.7	14.4
22	17.6	17.3	17.1	16.8	16.6	16.3	16.1	15.8	15.5	15.3
23	18.5	18.2	18.0	17.7	17.4	17.2	16.9	16.7	16.4	16.1
24	19.4	19.1	18.8	18.6	18.3	18.1	17.8	17.5	17.3	17.0
25	20.2	20.0	19.7	19.5	19.2	18.9	18.7	18.4	18.1	17.8
26	21.1	20.9	20.6	20.3	20.0	19.8	19.5	19.2	19.0	18.7
27	22.0	21.7	21.4	21.2	20.9	20.6	20.4	20.1	19.8	19.5
28	22.8	22.6	22.3	22.0	21.8	21.5	21.2	20.9	20.6	20.3
29	23.7	23.4	23.2	22.9	22.6	22.3	22.0	21.8	21.5	21.2
30	24.6	24.3	24.0	23.7	23.5	23.2	22.9	22.6	22.3	22.0
31	25.4	25.1	24.9	24.6	24.3	24.0	23.7	23.4	23.1	22.8
32	26.3	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6
33	27.1	26.8	26.5	26.3	26.0	25.7	25.4	25.1	24.7	24.4
34	28.0	27.7	27.4	27.1	26.8	26.5	26.2	25.9	25.6	25.2
35	28.8	28.5	28.2	27.9	27.6	27.3	27.0	26.7	26.4	26.0
36	29.6	29.3	29.0	28.7	28.4	28.1	27.8	27.5	27.2	26.8
37	30.5	30.2	29.9	29.6	29.2	28.9	28.6	28.3	28.0	27.6
38	31.3	31.0	30.7	30.4	30.1	29.7	29.4	29.1	28.7	28.4
39	32.2	31.8	31.5	31.2	30.9	30.5	30.2	29.9	29.5	29.2
40	33.0	32.7	32.4	32.0	31.7	31.4	31.0	30.7	30.3	30.0
41	33.9	33.6	33.2	32.9	32.5	32.2	31.8	31.5	31.2	30.8

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
42	34.8	34.4	34.1	33.7	33.4	33.0	32.7	32.3	32.0	31.6
43	35.6	35.3	34.9	34.6	34.2	33.9	33.5	33.2	32.8	32.4
44	36.5	36.2	35.8	35.4	35.1	34.7	34.4	34.0	33.6	33.3
45	37.4	37.0	36.7	36.3	35.9	35.6	35.2	34.8	34.5	34.1
46	38.3	37.9	37.5	37.2	36.8	36.4	36.0	35.7	35.3	34.9
47	39.2	38.8	38.4	38.0	37.6	37.3	36.9	36.5	36.1	35.8
48	40.0	39.6	39.3	38.9	38.5	38.1	37.7	37.4	37.0	36.6
49	40.9	40.5	40.1	39.8	39.4	39.0	38.6	38.2	37.8	37.5
50	41.8	41.4	41.0	40.6	40.2	39.9	39.5	39.1	38.7	38.3
51	42.7	42.3	41.9	41.5	41.1	40.7	40.3	39.9	39.6	39.2
52	43.6	43.2	42.8	42.4	42.0	41.6	41.2	40.8	40.4	40.0
63	44.5	44.1	43.7	43.3	42.9	42.5	42.1	41.7	41.3	40.9
54	45.4	45.0	44.6	44.2	43.8	43.4	43.0	42.6	42.2	41.8
55	46.3	45.9	45.5	45.1	44.6	44.2	43.8	43.4	43.0	42.6
56	47.2	46.8	46.4	46.0	45.5	45.1	44.7	44.3	43.9	43.5
57	48.1	47.7	47.3	46.9	46.4	46.0	45.6	45.2	44.8	44.4
58	49.0	48.6	48.2	47.8	47.3	46.9	46.5	46.1	45.7	45.3
59	49.9	49.5	49.1	48.7	48.2	47.8	47.4	47.0	46.6	46.2
60	50.9	50.4	50.0	49.6	49.1	48.7	48.3	47.9	47.5	47.1
61	51.8	51.3	50.9	50.5	50.1	49.6	49.2	48.8	48.4	48.0
62	52.7	52.3	51.8	51.4	51.0	50.6	50.2	49.7	49.3	48.9
63	53.7	53.2	52.8	52.3	51.9	51.5	51.1	50.7	50.2	49.8
64	54.6	54.2	53.7	53.3	52.9	52.4	52.0	51.6	51.2	50.8
65	55.6	55.1	54.7	54.2	53.8	53.4	53.0	52.5	52.1	51.7
66	56.5	56.1	55.7	55.2	54.8	54.3	53.9	53.5	53.1	52.6
67	57.5	57.1	56.6	56.2	55.7	55.3	54.9	54.4	54.0	53.6
68	58.5	58.0	57.6	57.2	56.7	56.2	55.8	55.4	55.0	54.5
69	59.5	59.0	58.6	58.1	57.7	57.2	56.8	56.3	55.9	55.5
70	60.5	60.0	59.6	59.1	58.7	58.2	57.8	57.3	56.9	56.4
71	61.5	61.0	60.6	60.1	59.6	59.2	58.8	58.3	57.9	57.4
72	62.5	62.0	61.6	61.1	60.6	60.2	59.8	59.3	58.8	58.4
73	63.5	63.0	62.6	62.1	61.7	61.2	60.8	60.3	59.8	59.4
74	64.5	64.0	63.6	63.1	62.7	62.2	61.8	61.3	60.9	60.4
75	65.5	65.0	64.6	64.1	63.7	63.2	62.8	62.3	61.9	61.4
76	66.5	66.0	65.6	65.1	64.7	64.2	63.8	63.3	62.9	62.4
77	67.5	67.1	66.6	66.2	65.7	65.3	64.8	64.4	63.9	63.5
78	68.5	68.1	67.6	67.2	66.7	66.3	65.8	65.4	64.9	64.5
79	69.6	69.1	68.7	68.2	67.8	67.3	66.8	66.4	66.0	65.5
80	70.6	70.1	69.7	69.2	68.8	68.3	67.9	67.4	67.0	66.5
81	71.6	71.2	70.7	70.3	69.8	69.4	68.9	68.5	68.0	67.6
82	72.6	72.2	71.7	71.3	70.8	70.4	69.9	69.5	69.0	68.6

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
83	73.7	73.2	72.8	72.3	71.9	71.4	71.0	70.5	70.1	69.6
84	74.7	74.2	73.8	73.3	72.9	72.4	72.0	71.5	71.1	70.7
85	75.7	75.3	74.8	74.4	73.9	73.5	73.0	72.6	72.1	71.7
86	76.7	76.3	75.8	75.4	74.9	74.5	74.0	73.6	73.2	72.7
87	77.8	77.3	76.9	76.4	76.0	75.5	75.1	74.6	74.2	73.7
88	78.8	78.3	77.9	77.4	77.0	76.5	76.1	75.7	75.2	74.8
89	79.8	79.4	78.9	78.5	78.0	77.6	77.1	76.7	76.2	75.8
90	80.8	80.4	79.9	79.5	79.1	78.6	78.2	77.7	77.3	76.8
91	81.9	81.4	81.0	80.5	80.1	79.6	79.2	78.8	78.3	77.9
92	82.9	82.4	82.0	81.6	81.1	80.7	80.2	79.8	79.4	78.9
93	83.9	83.5	83.0	82.6	82.2	81.7	81.3	80.8	80.4	80.0
94	85.0	84.5	84.1	83.6	83.2	82.8	82.3	81.9	81.5	81.0
95	86.0	85.6	85.1	84.7	84.2	83.8	83.4	82.9	82.5	82.1
96	87.0	86.6	86.2	85.7	85.3	84.9	84.4	84.0	83.6	83.1
97	88.1	87.6	87.2	86.8	86.3	85.9	85.5	85.0	84.6	84.1
98	89.1	88.7	88.2	87.8	87.4	86.9	86.5	86.1	85.6	85.2
99	90.1	89.7	89.3	88.8	88.4	88.0	87.6	87.1	86.7	86.2
100	91.2	90.7	90.3	89.9	89.4	89.0	88.6	88.2	87.7	87.3
101	92.2	91.8	91.3	90.9	90.5	90.1	89.6	89.2	88.8	88.3
102	93.2	92.8	92.4	92.0	91.5	91.1	90.7	90.2	89.8	89.4
103	94.3	93.8	93.4	93.0	92.6	92.1	91.7	91.3	90.8	90.4
104	95.3	94.9	94.4	94.0	93.6	93.2	92.7	92.3	91.9	91.5
105	96.3	95.9	95.5	95.1	94.6	94.2	93.8	93.4	92.9	92.5
106	97.4	96.9	96.5	96.1	95.7	95.2	94.8	94.4	94.0	93.5
107	98.4	98.0	97.6	97.1	96.7	96.3	95.9	95.4	95.0	94.6
108	99.4	99.0	98.6	98.2	97.7	97.3	96.9	96.5	96.1	95.6
109	100.4	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	91.7
110	101.5	101.1	100.6	100.2	99.8	99.4	99.0	98.6	98.1	97.7
111	102.5	102.1	101.7	101.3	100.8	100.4	100.0	99.6	99.2	98.8
112	103.5	103.1	102.7	102.3	101.9	101.5	101.0	100.6	100.2	99.8
113	104.6	104.1	103.7	103.3	102.9	102.5	102.1	101.7	101.3	100.8
114	105.6	105.2	104.8	104.4	103.9	103.5	103.1	102.7	102.3	101.9
115	106.6	106.2	105.8	105.4	105.0	104.6	104.2	103.7	103.3	102.9
116	107.6	107.2	106.8	106.4	106.0	105.6	105.2	104.8	104.4	104.0
117	108.7	108.3	107.9	107.4	107.0	106.6	106.2	105.8	105.4	105.0
118	109.7	109.3	108.9	108.5	108.1	107.7	107.3	106.8	106.4	106.0
119	110.7	110.3	109.9	109.5	109.1	108.7	108.3	107.9	107.5	107.1
120	111.7	111.3	110.9	110.5	110.1	109.7	109.3	108.9	108.5	108.1
121	112.8	112.4	112.0	111.6	111.2	110.8	110.4	110.0	109.5	109.1
122	113.8	113.4	113.0	112.6	112.2	111.8	111.4	111.0	110.6	110.2
123	114.8	114.4	114.0	113.6	113.2	112.8	112.4	112.0	111.6	111.2

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
124	115.8	115.5	115.1	114.7	114.3	113.9	113.5	113.1	112.7	112.2
125	116.9	116.5	116.1	115.7	115.3	114.9	114.5	114.1	113.7	113.3
126	117.9	117.5	117.1	116.7	116.3	115.9	115.5	115.1	114.7	114.3
127	118.9	118.5	118.1	117.7	117.3	116.9	116.6	116.2	115.8	115.4
128	120.0	119.6	119.2	118.8	118.4	118.0	117.6	117.2	116.8	116.4
129	121.0	120.6	120.2	119.8	119.4	119.0	118.6	118.2	117.8	117.4
130	122.0	121.6	121.2	120.8	120.4	120.0	119.6	119.3	118.9	118.5
131	123.0	122.6	122.3	121.9	121.5	121.1	120.7	120.3	119.9	119.5
132	124.1	123.7	123.3	122.9	122.5	122.1	121.7	121.3	120.9	120.5
133	125.1	124.7	124.3	123.9	123.5	123.1	122.8	122.4	122.0	121.6
134	126.1	125.7	125.3	125.0	124.6	124.2	123.8	123.4	123.0	122.6
135	127.1	126.7	126.4	126.0	125.6	125.2	124.8	124.4	124.0	123.6
136	128.2	127.8	127.4	127.0	126.6	126.2	125.8	125.5	125.1	124.7
137	129.2	128.8	128.4	128.0	127.6	127.3	126.9	126.5	126.1	125.7
138	130.2	129.8	129.4	129.1	128.7	128.3	127.9	127.5	127.1	126.8
139	131.2	130.9	130.5	130.1	129.7	129.3	129.0	128.6	128.2	127.8
140	132.3	131.9	131.5	131.1	130.7	130.4	130.0	129.6	129.2	128.8
141	133.3	132.9	132.5	132.2	131.8	131.4	131.0	130.6	130.2	129.9
142	134.3	133.9	133.6	133.2	132.8	132.4	132.1	131.7	131.3	130.9
143	135.4	135.0	134.6	134.2	133.8	133.5	133.1	132.7	132.3	131.9
144	136.4	136.0	135.6	135.3	134.9	134.5	134.1	133.8	133.4	133.0
145	137.4	137.0	136.7	136.3	135.9	135.5	135.2	134.8	134.4	134.0
146	138.4	138.1	137.7	137.3	136.9	136.6	136.2	135.8	135.5	135.1
147	139.5	139.1	138.7	138.4	138.0	137.6	137.2	136.9	136.5	136.1
148	140.5	140.1	139.8	139.4	139.0	138.6	138.3	137.9	137.5	137.2
149	141.5	141.2	140.8	140.4	140.1	139.7	139.3	139.0	138.6	138.2
150	142.6	142.2	141.8	141.5	141.1	140.7	140.4	140.0	139.6	139.3
151	143.6	143.2	142.9	142.5	142.1	141.8	141.4	141.0	140.7	140.3
152	144.6	144.3	143.9	143.5	143.2	142.8	142.4	142.1	141.7	141.4
153	145.7	145.3	144.9	144.6	144.2	143.8	143.5	143.1	142.8	142.4
154	146.7	146.3	146.0	145.6	145.2	144.9	144.5	144.2	143.8	143.4
155	147.7	147.4	147.0	146.6	146.3	145.9	145.6	145.2	144.9	144.5
156	148.8	148.4	148.1	147.7	147.3	147.0	146.6	146.3	145.9	145.5
157	149.8	149.4	149.1	148.7	148.4	148.0	147.7	147.3	146.9	146.6
158	150.8	150.5	150.1	149.8	149.4	149.1	148.7	148.3	148.0	147.6
159	151.9	151.5	151.2	150.8	150.4	150.1	149.8	149.4	149.0	148.7
160	152.9	152.6	152.2	151.8	151.5	151.1	150.8	150.4	150.1	149.7
161	153.9	153.6	153.2	152.9	152.5	152.2	151.8	151.5	151.1	150.8
162	155.0	154.6	154.3	153.9	153.6	153.2	152.9	152.5	152.2	151.8
163	156.0	155.6	155.3	155.0	154.6	154.3	153.9	153.6	153.2	152.8
164	157.0	156.7	156.3	156.0	155.6	155.3	155.0	154.6	154.2	153.9

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
165	158.1	157.7	157.4	157.0	156.7	156.3	156.0	155.6	155.3	154.9
166	159.1	158.8	158.4	158.1	157.7	157.4	157.0	156.7	156.3	156.0
167	160.1	159.8	159.5	159.1	158.8	158.4	158.1	157.7	157.4	157.0
168	161.2	160.8	160.5	160.2	159.8	159.5	159.1	158.8	158.4	158.1
169	162.2	161.9	161.5	161.2	160.9	160.5	160.2	159.8	159.5	159.2
170	163.2	162.9	162.6	162.2	161.9	161.6	161.2	160.9	160.6	160.2
171	164.3	164.0	163.6	163.3	163.0	162.6	162.3	162.0	161.6	161.3
172	165.3	165.0	164.7	164.3	164.0	163.7	163.3	163.0	162.7	162.3
173	166.4	166.0	165.7	165.4	165.1	164.7	164.4	164.1	163.7	163.4
174	167.4	167.1	166.8	166.5	166.1	165.8	165.5	165.1	164.8	164.5
175	168.5	168.2	167.8	167.5	167.2	166.9	166.5	166.2	165.9	165.5
176	169.5	169.2	168.9	168.6	168.3	167.9	167.6	167.3	166.9	166.6
177	170.6	170.3	170.0	169.6	169.3	169.0	168.7	168.3	168.0	167.7
178	171.6	171.3	171.0	170.7	170.4	170.1	169.7	169.4	169.1	168.8
179	172.7	172.4	172.1	171.8	171.5	171.1	170.8	170.5	170.2	169.9
180	173.8	173.5	173.2	172.9	172.5	172.2	171.9	171.6	171.3	171.0
181	174.8	174.5	174.2	173.9	173.6	173.3	173.0	172.7	172.4	172.1
182	175.9	175.6	175.3	175.0	174.7	174.4	174.1	173.8	173.5	173.2
183	177.0	176.7	176.4	176.1	175.8	175.5	175.2	174.9	174.6	174.3
184	178.1	177.8	177.5	177.2	176.9	176.6	176.3	176.0	175.7	175.4
185	179.1	178.8	178.6	178.3	178.0	177.7	177.4	177.1	176.8	176.5
186	180.2	17119	179.7	179.4	179.1	178.8	178.5	178.2	177.9	177.6
187	181.3	181.0	180.8	180.5	180.2	179.9	179.6	179.3	179.0	178.7
188	182.4	182.1	181.9	181.6	181.3	181.0	180.7	180.4	180.1	179.8
189	183.5	183.2	183.0	182.7	182.4	182.1	181.8	181.5	181.2	181.0
190	184.6	184.3	184.1	183.8	183.5	183.2	182.9	182.7	182.4	182.1
191	185.7	185.4	185.2	184.9	184.6	184.4	184.1	183.8	183.5	183.2
192	186.8	186.6	186.3	186.0	185.8	185.5	185.2	184.9	184.6	184.4
193	187.9	187.7	187.4	187.2	186.9	186.6	186.3	186.1	185.8	185.5
194	189.0	188.8	188.5	188.3	188.0	187.7	187.5	187.2	187.0	186.7
195	190.2	189.9	189.7	189.4	189.2	188.9	188.6	188.4	188.1	187.8
196	191.3	191.0	190.8	190.5	190.3	190.0	189.8	189.5	189.3	189.0
197	192.4	192.2	191.9	191.7	191.4	191.2	191.0	190.7	190.4	190.2
198	193.6	193.3	193.1	192.9	192.6	192.4	192.2	191.9	191.6	191.4
199	194.7	194.5	194.3	194.1	193.8	193.6	193.4	193.1	192.9	192.6
200	195.9	195.7	195.5	195.3	195.1	194.8	194.6	194.4	194.2	193.9
201	197.1	196.9	196.7	196.5	196.3	196.0	195.8	195.6	195.4	195.2
202	198.3	198.1	197.9	197.7	197.5	197.2	197.0	196.9	196.7	196.5
203	199.5	199.3	199.1	198.9	198.7	198.4	198.3	198.1	198.0	197.8
204	-----	-----	-----	-----	200.0	199.7	199.5	199.4	199.3	199.1

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6	0.7	0.5	0.3	0.9	-----	-----	-----	-----	-----	-----
7	1.7	1.4	1.2	1.0	0.8	0.5	0.3	0.0	-----	-----
8	2.6	2.4	2.1	1.9	1.7	1.4	1.2	1.0	0.7	0.5
9	3.5	3.3	3.1	2.8	2.6	2.4	2.1	1.9	1.6	1.4
10	4.4	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3
11	5.3	5.1	4.9	4.6	4.4	4.2	3.9	3.7	3.4	3.2
12	6.2	6.0	5.8	5.5	5.3	5.0	4.8	4.5	4.3	4.0
13	7.1	6.9	6.6	6.4	6.1	5.9	5.6	5.4	5.1	4.8
14	8.0	7.8	7.5	7.3	7.0	6.8	6.5	6.2	6.0	5.7
15	8.9	8.7	8.4	8.1	7.9	7.6	7.4	7.1	6.8	6.6
16	9.8	9.5	9.3	9.0	8.7	8.5	8.2	7.9	7.7	7.4
17	10.7	10.4	10.1	9.9	9.6	9.3	9.1	8.8	8.5	8.2
18	11.5	11.3	11.0	10.7	10.5	10.2	9.9	9.7	9.4	9.1
19	12.4	12.1	11.9	11.6	11.3	11.0	10.8	10.5	10.2	10.0
20	13.3	13.0	12.7	12.4	12.2	11.9	11.6	11.4	11.1	10.8
21	14.1	13.9	13.6	13.3	13.0	12.8	12.5	12.2	11.9	11.6
22	15.0	14.7	14.4	14.2	13.9	13.6	13.3	13.0	12.7	12.5
23	15.9	15.6	15.3	15.0	14.7	14.4	14.1	13.9	13.6	13.3
24	16.7	16.4	16.1	15.9	15.6	15.3	15.0	14.7	14.4	14.1
25	17.6	17.3	17.0	16.7	16.4	16.1	15.8	15.5	15.2	14.9
26	18.4	18.1	17.8	17.5	17.2	16.9	16.6	16.3	16.0	15.7
27	19.2	18.9	18.7	18.4	18.1	17.8	17.5	17.2	16.9	16.6
28	20.1	19.8	19.5	19.2	18.9	18.6	18.3	18.0	17.7	17.4
29	20.9	20.6	20.3	20.0	19.7	19.4	19.1	18.8	18.5	18.2
30	21.7	21.4	21.1	20.8	20.5	20.2	19.9	19.6	19.3	19.0
31	22.5	22.2	21.9	21.6	21.3	21.0	20.7	20.4	20.1	19.8
32	23.3	23.0	22.7	22.4	22.1	21.8	21.5	21.2	20.9	20.6
33	24.1	23.8	23.5	23.2	22.9	22.6	22.3	22.0	21.6	21.3
34	24.9	24.6	24.3	24.0	23.7	23.4	23.0	22.7	22.4	22.1
35	25.7	25.4	25.1	24.8	24.5	24.1	23.8	23.5	23.2	22.8
36	26.5	26.2	25.9	25.6	25.2	24.9	24.6	24.2	23.9	23.6
37	27.3	27.0	26.6	26.3	26.0	25.7	25.3	25.0	24.7	24.3
38	28.1	27.8	27.4	27.1	26.7	26.4	26.1	25.7	25.4	25.1
39	28.9	28.5	28.2	27.9	27.5	27.2	26.8	26.5	26.2	25.8
40	29.7	29.3	29.0	28.6	28.3	27.9	27.6	27.3	26.9	26.6
41	30.5	30.1	29.8	29.4	29.1	28.7	28.4	28.0	27.7	27.3

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
42	31.3	30.9	30.6	30.2	29.9	29.5	29.2	28.8	28.5	28.1
43	32.1	31.7	31.4	31.0	30.7	30.3	30.0	29.6	29.2	28.9
44	32.9	32.6	32.2	31.8	31.5	31.1	30.7	30.4	30.0	29.7
45	33.7	33.4	33.0	32.6	32.3	31.9	31.5	31.2	30.8	30.4
46	34.6	34.2	33.8	33.5	33.1	32.7	32.3	32.0	31.6	31.2
47	35.5	35.0	34.7	34.3	33.9	33.5	33.2	32.8	32.4	32.0
48	36.2	35.9	35.5	35.1	34.7	34.4	34.0	33.6	33.2	32.8
49	37.1	36.7	36.3	35.9	35.6	35.2	34.8	34.4	34.0	33.6
50	37.9	37.5	37.2	36.8	36.4	36.0	35.6	35.2	34.8	34.4
51	38.8	38.4	38.0	37.6	37.2	36.8	36.4	36.0	35.6	35.3
52	39.6	39.2	38.8	38.4	38.1	37.7	37.3	36.9	36.5	36.1
63	40.5	40.1	39.7	39.3	38.9	38.5	38.1	37.7	37.3	36.9
54	41.4	41.0	40.6	40.1	39.8	39.4	39.0	38.6	38.2	37.8
55	42.2	41.8	41.4	41.0	40.6	40.2	39.8	39.4	39.0	38.6
56	43.1	42.7	42.3	41.9	41.5	41.1	40.7	40.3	39.9	39.4
57	44.0	43.6	43.2	42.8	42.4	41.9	41.5	41.1	40.7	40.3
58	44.9	44.5	44.1	43.6	43.2	42.8	42.4	42.0	41.6	41.2
59	45.8	45.4	44.9	44.5	44.1	43.7	43.3	42.9	42.5	42.0
60	46.7	46.3	45.8	45.4	45.0	44.6	44.2	43.8	43.3	42.9
61	47.6	47.2	46.7	46.3	45.9	45.5	45.1	44.6	44.2	43.8
62	48.5	48.1	47.6	47.2	46.8	46.4	46.0	45.5	45.1	44.7
63	49.4	49.0	48.6	48.1	47.7	47.3	46.9	46.4	46.0	45.6
64	50.3	49.9	49.5	49.1	48.6	48.2	47.8	47.3	46.9	46.5
65	51.3	50.8	50.4	50.0	49.6	49.1	48.7	48.2	47.8	47.4
66	52.2	51.8	51.3	50.9	50.5	50.0	49.6	49.2	48.7	48.3
67	53.1	52.7	52.3	51.8	51.4	51.0	50.5	50.1	49.7	49.2
68	54.1	53.6	53.2	52.8	52.3	51.9	51.5	51.0	50.6	50.1
69	55.0	54.6	54.2	53.7	53.3	52.9	52.4	52.0	51.5	51.1
70	56.0	55.6	55.1	54.7	54.2	53.8	53.4	52.9	52.5	52.0
71	57.0	56.5	56.1	55.6	55.2	54.8	54.3	53.9	53.4	53.0
72	58.0	57.5	57.1	56.6	56.2	55.7	55.3	54.8	54.4	53.9
73	58.9	58.5	58.0	57.6	57.1	56.7	56.2	55.8	55.4	54.9
74	60.0	59.5	59.1	58.6	58.2	57.7	57.3	56.8	56.4	55.9
75	61.0	60.5	60.1	59.6	59.2	58.7	58.3	57.8	57.4	56.9
76	62.0	61.6	61.1	60.7	60.2	59.8	59.3	58.8	58.4	57.9
77	63.0	62.6	62.1	61.7	61.2	60.8	60.3	59.9	59.4	59.0
78	64.0	63.6	63.2	62.7	62.2	61.8	61.3	60.9	60.4	60.0
79	65.1	64.6	64.2	63.7	63.3	62.8	62.4	61.9	61.5	61.0
80	66.1	65.6	65.2	64.7	64.3	63.8	63.4	62.9	62.5	62.0
81	67.1	66.7	66.2	65.8	65.3	64.9	64.4	64.0	63.5	63.1
82	68.2	67.7	67.2	66.8	66.4	65.9	65.5	65.0	64.6	64.1

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
83	69.2	68.7	68.3	67.8	67.4	66.9	66.5	66.0	65.6	65.1
84	70.2	69.8	69.3	68.9	68.4	68.0	67.5	67.1	66.6	66.2
85	71.2	70.8	70.3	69.9	69.4	69.0	68.6	68.1	61.7	67.2
86	72.3	71.8	71.4	70.9	70.5	70.0	69.6	69.1	68.7	68.2
87	73.3	72.8	72.4	72.0	71.5	71.1	70.6	70.2	61.7	69.3
88	74.3	73.9	73.4	73.0	72.5	72.1	71.7	71.2	70.8	70.3
89	75.4	74.9	74.5	74.0	73.6	73.1	72.7	72.2	71.8	71.3
90	76.4	75.9	75.5	75.0	74.6	74.2	73.7	73.3	72.8	72.4
91	77.4	77.0	76.5	76.1	75.6	75.2	74.8	74.3	73.9	73.4
92	78.5	78.0	77.6	77.1	76.7	76.3	75.8	75.4	71.9	74.5
93	79.5	79.1	78.6	78.2	77.7	77.3	76.9	76.4	76.0	75.5
94	80.6	80.1	79.7	79.2	78.8	78.4	77.9	77.5	77.0	76.6
95	81.6	81.2	80.7	80.3	79.8	79.4	79.0	78.5	78.1	77.6
96	82.7	82.2	81.8	81.3	80.9	0.4	80.0	79.6	79.1	78.7
97	83.7	83.3	82.8	82.4	81.9	81.5	81.1	80.6	80.2	79.7
98	84.7	84.3	83.9	83.4	83.0	82.5	82.1	81.7	81.2	80.8
99	85.8	85.4	84.9	84.5	84.0	83.6	83.2	82.7	82.3	81.8
100	86.8	86.4	86.0	85.5	85.1	84.6	84.2	83.8	83.3	82.9
101	87.9	87.5	87.0	86.6	86.1	85.7	85.3	84.8	84.4	84.0
102	88.9	88.5	88.1	87.6	87.2	86.8	86.3	85.9	85.5	85.0
103	90.0	89.5	89.1	88.7	88.2	87.8	87.4	87.0	86.5	86.1
104	91.0	90.6	9.2	89.7	89.3	88.9	88.4	88.0	87.6	87.1
105	92.1	91.6	91.2	9.8	90.4	89.9	89.5	89.1	88.6	88.2
106	93.1	92.7	92.3	91.8	91.4	91.0	90.6	90.1	89.7	89.3
107	94.2	93.7	93.3	92.9	92.5	92.0	91.6	91.2	90.8	90.3
108	95.2	94.8	9.4	93.9	93.5	93.1	92.7	92.2	91.8	91.4
109	96.3	95.8	95.4	95.0	94.6	94.1	93.7	93.3	92.9	92.4
110	97.3	96.9	96.5	96.0	95.6	95.2	94.8	94.4	93.9	93.5
111	98.3	97.9	97.5	97.1	96.7	96.2	95.8	95.4	95.0	94.5
112	99.4	99.0	98.5	98.1	97.7	97.3	96.9	96.4	96.0	95.6
113	100.4	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6
114	101.5	101.0	100.6	100.2	99.8	99.4	99.0	98.5	98.1	97.7
115	102.5	102.1	101.7	101.2	100.8	100.4	100.0	99.6	99.2	98.7
116	103.5	103.1	102.7	102.3	101.9	101.5	101.0	100.6	100.2	99.8
117	104.6	104.2	103.7	103.3	102.9	102.5	102.1	101.7	101.2	100.8
118	105.6	105.2	104.8	104.4	104.0	103.5	103.1	102.7	102.3	101.9
119	106.6	106.2	105.8	105.4	105.0	104.6	104.2	103.8	103.3	102.9
120	107.7	107.3	106.9	106.5	106.0	105.6	105.2	104.8	104.4	104.0
121	108.7	108.3	107.9	107.5	107.1	106.7	106.3	105.8	105.4	105.0
122	109.8	109.4	109.0	108.5	108.1	107.7	107.3	106.9	106.5	106.1
123	110.8	110.4	110.0	109.6	109.2	108.8	108.4	107.9	107.5	107.1

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
124	111.8	111.4	111.0	110.6	110.2	109.8	109.4	109.0	108.6	108.2
125	112.9	112.5	112.1	111.7	111.3	110.9	110.4	110.0	109.6	109.2
126	113.9	113.5	113.1	112.7	112.3	111.9	111.5	111.1	110.7	110.3
127	115.0	114.6	114.2	113.8	113.3	112.9	112.5	112.1	111.7	111.3
128	116.0	115.6	115.2	114.8	114.4	114.0	113.6	113.2	112.8	112.4
129	117.0	116.6	116.2	115.8	115.4	115.0	114.6	114.2	113.8	113.4
130	118.1	117.7	117.3	116.9	116.5	116.1	115.7	115.3	114.9	114.5
131	119.1	118.7	118.3	117.9	117.5	117.1	116.7	116.3	115.9	115.5
132	120.1	119.8	119.4	119.0	118.6	118.2	117.8	117.4	117.0	116.6
133	121.2	120.8	120.4	120.0	119.6	119.2	118.8	118.4	118.0	117.6
134	122.2	121.8	121.4	121.0	120.6	120.2	119.8	119.4	119.1	118.7
135	123.3	122.9	122.5	122.1	121.0	121.3	120.9	120.5	120.1	119.7
136	124.3	123.9	123.5	123.1	122.7	122.3	121.9	121.5	121.1	120.7
137	125.3	124.9	124.5	124.1	123.8	123.4	123.0	122.6	122.2	121.8
138	126.4	126.0	125.6	125.2	124.8	124.4	124.0	123.6	123.2	122.8
139	127.4	127.0	126.6	126.2	125.8	125.4	125.0	124.7	124.3	123.9
140	128.4	128.0	127.7	127.3	126.9	126.5	126.1	125.7	125.3	124.9
141	129.5	129.1	128.7	128.3	127.9	127.5	127.1	126.8	126.4	126.0
142	130.5	130.1	129.7	129.4	129.0	128.6	128.2	127.8	127.4	127.0
143	131.6	131.2	130.8	130.4	130.0	129.6	129.2	128.9	128.5	128.1
144	132.6	132.2	131.8	131.5	131.1	130.7	130.3	129.9	129.5	129.1
145	133.7	133.3	132.9	132.5	132.1	131.7	131.4	131.0	130.6	130.2
146	134.7	134.3	133.9	133.6	133.2	132.8	132.4	132.0	131.6	131.3
147	135.7	135.4	135.0	134.6	134.2	133.8	133.5	133.1	132.7	132.3
148	136.8	136.4	136.0	135.7	135.3	134.9	134.5	134.1	133.7	133.4
149	137.8	137.5	137.1	136.7	136.3	135.9	135.6	135.2	134.8	134.4
150	138.9	138.5	138.1	137.8	137.4	137.0	136.6	136.2	135.9	135.5
151	139.9	139.6	139.2	138.8	138.4	138.0	137.3	137.3	136.9	136.5
152	141.0	140.6	140.2	139.9	139.5	139.1	138.3	138.3	138.0	137.6
153	142.0	141.7	141.3	140.9	140.5	140.2	139.8	139.4	139.0	138.7
154	143.1	142.7	142.3	142.0	141.6	141.2	140.8	140.5	140.1	139.7
155	144.1	143.8	143.4	143.0	142.6	142.3	141.9	141.5	141.1	140.8
156	145.2	144.8	144.4	144.1	143.7	143.3	142.9	142.6	142.2	141.8
157	146.2	145.9	145.5	145.1	144.7	144.4	144.0	143.6	143.3	142.9
158	147.3	146.9	146.5	146.2	145.8	145.4	145.1	144.7	144.3	144.0
159	148.3	147.9	147.6	147.2	146.9	146.5	146.1	145.7	145.4	145.0
160	149.4	149.0	148.6	148.3	147.9	147.5	147.2	146.8	146.4	146.1
161	150.4	150.0	149.7	149.3	149.0	148.6	148.2	147.9	147.5	147.1
162	151.4	151.1	150.7	150.4	150.0	149.7	149.3	148.9	148.6	148.2
163	152.5	152.1	151.8	151.4	151.1	150.7	150.3	150.0	149.6	149.3
164	153.5	153.2	152.8	152.5	152.1	151.8	151.4	151.0	150.7	150.3

Table No. 1 - True Percent Proof
Temperature °F

Hydrometer Reading	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
165	154.6	154.2	153.9	153.5	153.2	152.8	152.5	152.1	151.8	151.4
166	155.6	155.3	154.9	154.6	154.2	153.9	153.5	153.2	152.8	152.5
167	156.7	156.3	156.0	155.7	155.3	154.9	154.6	154.3	153.9	153.5
168	157.7	157.4	157.1	156.7	156.4	156.0	155.7	155.3	155.0	154.6
169	158.8	158.5	158.1	157.8	157.4	157.1	156.7	156.4	156.0	155.7
170	159.9	159.5	159.2	158.8	158.5	158.2	157.8	157.5	157	156.8
171	160.9	160.6	160.2	159.9	159.6	159.2	158.9	158.5	158.2	157.8
172	162.0	161.7	161.3	161.0	160.6	160.3	160.0	159.6	159.3	158.9
173	163.1	162.7	162.4	162.0	161.7	161.4	161.0	160.7	160.4	160.0
174	164.1	163.8	163.5	163.1	162.8	162.4	162.1	161.8	161.4	161.1
175	165.2	164.9	164.5	164.2	163.9	163.5	163.2	162.9	162.5	162.2
176	166.3	165.9	165.6	165.3	165.0	164.6	164.3	164.0	163.6	163.3
177	167.4	167.0	166.7	166.4	166.1	165.7	165.4	165.1	164.7	164.4
178	168.4	168.1	167.8	167.5	167.2	166.8	166.5	166.2	165.8	165.5
179	169.5	169.2	168.9	168.6	168.3	167.9	167.6	167.3	166.9	166.6
180	170.6	170.3	170.0	169.7	169.4	169.0	168.7	168.4	168.0	167.7
181	171.7	171.4	171.1	170.8	170.5	170.1	169.8	169.5	169.2	168.8
182	172.8	172.5	172.2	171.9	171.6	171.2	170.9	170.6	170.3	170.0
183	173.9	173.6	173.3	173.0	172.7	172.4	172.1	171.7	171.4	171.1
184	175.1	174.8	174.4	174.1	173.8	173.5	173.2	172.9	172.6	172.2
185	176.2	175.9	175.6	175.3	174.9	174.6	174.3	174.0	173.7	173.4
186	177.3	177.0	176.7	176.4	176.1	175.8	175.5	175.2	174.8	174.5
187	178.4	178.1	177.8	177.5	177.2	176.9	176.6	176.3	176.0	175.7
188	179.5	179.2	179.0	178.7	178.4	178.1	177.8	177.5	177.1	176.8
189	180.7	180.4	180.1	179.8	179.5	179.2	178.9	178.6	178.3	178.0
190	181.8	181.5	181.2	181.0	180.7	180.4	180.1	179.8	179.5	179.2
191	183.0	182.7	182.4	182.1	181.8	181.5	181.2	180.9	180.6	180.3
192	184.1	183.8	183.5	183.2	183.0	182.7	182.4	182.1	181.8	181.5
193	185.3	185.0	184.7	184.4	184.1	183.8	183.6	183.3	183.0	182.7
194	186.4	186.1	185.9	185.6	185.3	185.0	184.8	184.5	184.2	183.9
195	187.6	187.3	187.0	186.8	186.5	186.2	186.0	185.7	185.4	185.1
196	188.7	188.5	188.2	188.0	187.7	187.4	187.2	186.9	186.6	186.4
197	189.9	189.7	189.4	189.2	188.9	188.6	188.4	188.1	187.9	187.6
198	191.2	190.9	190.7	190.4	190.1	189.9	189.6	189.4	189.1	188.9
199	192.4	192.2	191.9	191.7	191.4	191.2	190.9	190.7	190.5	190.2
200	193.7	193.5	193.2	193.0	192.8	192.1	192.3	1921	191.8	191.6
201	194.9	194.7	194.5	194.3	194.1	193.8	193.6	193.4	193.1	192.9
202	196.2	196.0	195.8	195.6	195.4	195.1	194.9	194.7	194.4	194.2
203	197.5	197.3	197.1	196.9	196.7	196.4	196.2	196.1	195.8	195.6
204	198.8	198.6	198.4	198.2	198.0	197.8	197.6	197.4	197.2	196.9
205	-----	199.9	199.7	199.5	199.3	199.1	198.9	198.7	198.5	198.3
206	-----	-----	-----	-----	-----	-----	-----	200.0	199.8	199.6