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**TABLE No. 1**

**SHOWING**

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

(Prepared by the National Bureau of Standards and based on information published in Bulletin of the Bureau of Standards, Vol. 9, No. 3, pages 327-474, Oct. 15, 1913)

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	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
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	144.7	144.4	144.0	143.7	143.3	143.0

TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
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	162.9	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
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	178.9	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	183.9	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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°
76	97.7	97.3	96.8	96.4	95.9	95.5	95.1	94.6	94.2	93.8
77	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95.5	95.1	94.7
78	99.5	99.1	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.6
79	100.4	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.5
80	101.3	100.9	100.4	100.0	99.5	99.1	98.7	98.2	97.8	97.4
81	102.2	101.8	101.3	100.9	100.5	100.1	99.6	99.2	98.7	98.3
82	103.1	102.7	102.2	101.8	101.4	101.0	100.5	100.1	99.6	99.2
83	103.9	103.5	103.1	102.7	102.3	101.9	101.5	101.0	100.6	100.2
84	104.8	104.4	104.0	103.6	103.2	102.8	102.4	101.9	101.5	101.1
85	105.7	105.3	104.9	104.5	104.1	103.7	103.3	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	105.5	105.1	104.6	104.2	103.8
88	108.3	107.9	107.6	107.2	106.8	106.4	106.0	105.5	105.1	104.7
89	109.2	108.8	108.5	108.1	107.7	107.3	106.9	106.4	106.0	105.6
90	110.0	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	109.1	108.7	108.3
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	114.5	114.2	113.8	113.5	113.1	112.7	112.3	111.9	111.5	111.1
96	115.4	115.1	114.7	114.4	114.0	113.6	113.2	112.8	112.4	112.0
97	116.3	116.0	115.6	115.3	114.9	114.5	114.1	113.7	113.3	112.9
98	117.2	116.9	116.5	116.2	115.8	115.4	115.0	114.7	114.3	113.9
99	118.1	117.8	117.4	117.1	116.7	116.3	115.9	115.6	115.2	114.8
100	119.1	118.7	118.4	118.0	117.7	117.3	116.9	116.5	116.1	115.7
101	120.0	119.6	119.3	118.9	118.6	118.2	117.8	117.5	117.1	116.7
102	120.9	120.6	120.2	119.9	119.5	119.1	118.7	118.4	118.0	117.6
103	121.8	121.5	121.1	120.8	120.4	120.0	119.6	119.3	118.9	118.5
104	122.7	122.4	122.0	121.7	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	121.1	120.7	120.3
106	124.5	124.2	123.8	123.5	123.1	122.7	122.4	122.0	121.7	121.3
107	125.5	125.1	124.8	124.4	124.1	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	125.2	124.9	124.5	124.1
110	128.3	128.0	127.6	127.3	126.9	126.5	126.1	125.8	125.4	125.0
111	129.3	128.9	128.6	128.2	127.9	127.5	127.1	126.8	126.4	126.0
112	130.3	129.9	129.6	129.2	128.9	128.5	128.1	127.8	127.4	127.0
113	131.2	130.8	130.5	130.1	129.8	129.4	129.0	128.7	128.3	127.9
114	132.2	131.8	131.5	131.1	130.8	130.4	130.0	129.7	129.3	128.9
115	133.2	132.8	132.5	132.1	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	135.1	134.7	134.4	134.0	133.7	133.3	132.9	132.6	132.2	131.8
118	136.0	135.6	135.3	134.9	134.6	134.2	133.9	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	136.1	135.8	135.4	135.1	134.7
121	138.9	138.5	138.2	137.8	137.5	137.1	136.8	136.4	136.1	135.7
122	139.8	139.5	139.1	138.8	138.5	138.1	137.8	137.4	137.1	136.7
123	140.8	140.4	140.1	139.7	139.4	139.0	138.7	138.3	138.0	137.6
124	141.7	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	141.6	141.3	141.0	140.6	140.3	139.9	139.6

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°
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	169.1	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
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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°
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	190.8	190.6	190.3	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	190.2	190.0	189.7	189.5
180	192.6	192.3	192.1	191.8	191.6	191.4	191.1	190.9	190.6	190.4
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**

Hydrometer reading	Temperature °F.									
	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	91.7	91.2	90.8	90.3
78	95.2	94.8	94.4	94.0	93.6	93.2	92.7	92.2	91.8	91.3
79	96.1	95.7	95.3	94.9	94.5	94.1	93.6	93.1	92.7	92.2
80	97.0	96.6	96.2	95.8	95.4	95.0	94.5	94.0	93.6	93.1
81	97.9	97.5	97.1	96.7	96.3	95.9	95.5	95.0	94.6	94.1
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	98.1	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	102.1	101.7	101.3	100.9	100.5	100.1	99.6	99.2	98.7
87	103.4	103.0	102.6	102.2	101.8	101.4	101.0	100.5	100.1	99.7
88	104.3	103.9	103.5	103.1	102.7	102.3	101.9	101.5	101.1	100.7
89	105.2	104.8	104.4	104.0	103.6	103.2	102.8	102.4	102.0	101.6
90	106.1	105.7	105.3	104.9	104.5	104.1	103.7	103.3	102.9	102.5
91	107.0	106.6	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	108.1	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	107.1	106.7	106.3
95	110.7	110.3	109.9	109.5	109.1	108.7	108.3	108.0	107.6	107.2
96	111.6	111.2	110.9	110.5	110.1	109.7	109.3	108.9	108.5	108.1
97	112.5	112.1	111.8	111.4	111.0	110.6	110.2	109.9	109.5	109.1
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	112.8
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	118.3	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	118.6
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	123.6	123.2	122.8	122.5	122.1	121.8	121.4
111	125.6	125.3	124.9	124.6	124.2	123.8	123.5	123.1	122.8	122.4
112	126.6	126.3	125.9	125.6	125.2	124.8	124.5	124.1	123.8	123.4
113	127.5	127.2	126.8	126.5	126.1	125.8	125.4	125.1	124.7	124.4
114	128.5	128.2	127.8	127.5	127.1	126.7	126.4	126.0	125.7	125.3
115	129.5	129.2	128.8	128.5	128.1	127.7	127.4	127.0	126.7	126.3
116	130.5	130.2	129.8	129.5	129.1	128.7	128.4	128.0	127.7	127.3
117	131.4	131.1	130.7	130.4	130.0	129.6	129.3	128.9	128.6	128.2
118	132.4	132.1	131.7	131.4	131.0	130.6	130.3	129.9	129.6	129.2
119	133.4	133.1	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	131.9	131.5	131.2
121	135.3	135.0	134.6	134.3	133.9	133.5	133.2	132.8	132.5	132.1
122	136.3	135.9	135.6	135.2	134.8	134.5	134.1	133.8	133.4	133.1
123	137.2	136.9	136.5	136.2	135.8	135.5	135.1	134.8	134.4	134.1
124	138.2	137.9	137.5	137.2	136.8	136.5	136.1	135.8	135.4	135.1
125	139.2	138.8	138.5	138.1	137.7	137.4	137.0	136.7	136.3	136.0



## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°
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	141.7	141.3	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	145.1	144.7	144.4	144.1	143.7	143.3	143.0	142.6
133	146.8	146.4	146.1	145.7	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	151.1	150.8	150.4	150.1	149.8	149.4	149.1	148.7	148.4
139	152.4	152.1	151.7	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	153.6	153.3	153.0	152.7	152.3	152.0	151.6	151.3
142	155.3	155.0	154.6	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	158.1	157.8	157.5	157.1	156.8	156.4	156.1
147	160.0	159.7	159.4	159.1	158.8	158.5	158.1	157.8	157.4	157.1
148	161.0	160.7	160.3	160.0	159.7	159.4	159.0	158.7	158.3	158.0
149	161.9	161.6	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	163.1	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	166.6	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	168.8	168.5	168.2	167.9	167.6	167.3	167.0	166.7
158	170.4	170.1	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
160	172.3	172.0	171.7	171.4	171.1	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	175.0	174.7	174.4	174.1	173.8	173.5	173.2	172.9	172.6	172.3
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	178.1	177.8	177.5	177.2	176.9	176.6	176.3	176.0
168	179.5	179.2	179.0	178.7	178.4	178.1	177.8	177.5	177.2	176.9
169	180.4	180.1	179.9	179.6	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	181.9	181.6	181.4	181.1	180.8	180.5	180.3	180.0	179.7
172	183.0	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

**TABLE No. 1**  
**TRUE PERCENT PROOF**

Hydrometer reading	Temperature °F.									
	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°
176	186.6	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	190.6	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	191.6	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	196.6	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	196.6	196.4	196.1	195.9	195.6
190	198.4	198.2	198.1	197.9	197.7	197.6	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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	31°	32°	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
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

TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	31°	32°	33°	34°	35°	36°	37°	38°	39°	40°
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	65.5	65.0	64.5	64.0	63.5	63.1	62.6	62.1
54	67.5	67.0	66.5	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	70.1	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	79.6	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	80.6	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	86.2	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	87.6	87.2	86.8	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	95.6	95.2	94.8	94.4	94.0	93.5	93.1	92.7
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	94.6
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	109.6	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

TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	31°	32°	33°	34°	35°	36°	37°	38°	39°	40°
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	123.6
117	127.8	127.5	127.1	126.8	126.4	126.0	125.7	125.3	125.0	124.6
118	128.8	128.5	128.1	127.8	127.4	127.0	126.7	126.3	126.0	125.6
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
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	158.3	158.0	157.7	157.3	157.0	156.7

TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	31°	32°	33°	34°	35°	36°	37°	38°	39°	40°
151	160.6	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	160.6
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	170.6	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
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	176.6	176.3	176.0
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	179.1	178.8
174	182.1	181.9	181.6	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	190.6	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	192.6	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	196.6	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	199.6	199.4	199.2

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	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	6.0	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	6.9	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	16.4	16.4	16.3	16.3	16.2	16.2	16.1
16	17.7	17.6	17.6	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	20.6	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	23.2	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	24.6
24	26.7	26.6	26.5	26.4	26.3	26.2	26.1	25.9	25.8	25.6
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	30.6	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	36.5	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	40.6	40.3	39.9
38	44.1	43.7	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	46.6	46.2	45.9	45.5	45.2	44.8	44.3
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	56.0	55.5	55.1	54.6	54.1

TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°
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
53	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	66.1	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	69.6
66	75.0	74.5	74.0	73.5	73.0	72.5	72.1	71.6	71.2	70.6
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	74.6
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	85.1	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
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



## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°
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	116.6	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	118.6	118.3	117.9
115	122.2	121.8	121.5	121.1	120.7	120.3	120.0	119.6	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	125.6	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
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	137.6
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	140.6
138	144.7	144.3	144.0	143.6	143.3	142.9	142.6	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	146.0	145.6	145.3	144.9	144.6	144.2	143.9	143.6
141	147.7	147.3	147.0	146.6	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	146.2	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	150.5
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	155.1	154.8	154.4	154.1	153.7	153.4



TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	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	1.6	1.6	1.5	1.4	1.4	1.3	1.2	1.1	1.0
2	2.7	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
41	44.0	43.7	43.4	43.0	42.7	42.4	42.0	41.7	41.4	41.0
42	45.1	44.8	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	44.4	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	50.4	50.0

TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°
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
53	56.9	56.4	56.0	55.6	55.1	54.7	54.3	53.8	53.4	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	80.0
81	85.0	84.6	84.1	83.7	83.2	82.8	82.3	81.9	81.5	81.0
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	88.7	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	96.1	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	98.6	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	102.5	102.0	101.6	101.2	100.8	100.4	100.0

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	51°	52°	53°	54°	55°	56°	57°	58°	59°	60°
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
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



## TRUE PERCENT PROOF

Hydrome (see reading)	Temperature °F.									
	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
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

TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
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
53	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
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



## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
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
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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
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
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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	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
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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
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	47.8	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	53.0	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
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	84.2	83.8	83.3	82.9	82.5	82.0	81.6	81.1	80.7	80.3
90	85.2	84.8	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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
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
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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°
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	156.6	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
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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
1										
2										
3										
4	0.9	0.7	0.5	0.3	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
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

TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
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
53	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
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	75.6	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	83.5	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



## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
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	96.7
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
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

TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
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
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	179.9	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

TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
1										
2										
3										
4										
5										
6	0.7	0.5	0.3	0.1						
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
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

TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
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
53	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
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	67.7	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	69.7	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	74.9	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	80.4	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

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
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	90.2	89.7	89.3	88.9	88.4	88.0	87.6	87.1
105	92.1	91.6	91.2	90.8	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	94.4	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
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	121.7	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

TABLE No. 1  
TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
151	139.9	139.6	139.2	138.8	138.4	138.0	137.7	137.3	136.9	136.5
152	141.0	140.6	140.2	139.9	139.5	139.1	138.7	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
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	157.1	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	192.5	192.3	192.1	191.8	191.6

## TRUE PERCENT PROOF

Hydrometer reading	Temperature °F.									
	91°	92°	93°	94°	95°	96°	97°	98°	99°	100°
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