

RATES OF CHRONOMETERS

ON TRIAL

FOR PURCHASE BY THE BOARD OF ADMIRALTY,

AT THE

ROYAL OBSERVATORY, GREENWICH,

FROM 1893 JULY 1 TO 1894 JANUARY 20.

NAME MAKER.	No.	Whichever days.	Construction of Desamper and Balance, from the Description furnished by the Maker.	(L) WEEKLY RATES											
				July 1-8	Aug-15	16-22	22-29	July 29 Aug. 5	Aug. 12-19	Aug. 19-26	Sept. 2-9	Sept. 9-16	Sept. 16-23	Sept. 23-30	
Innes	1933	2	Auxiliary to balance.	+ 8.0	+ 8.1	+ 7.3	+ 6.5	+ 6.3	+ 6.1	+ 5.6	+ 5.4	+ 5.3	+ 5.3	+ 5.3	
Webb	554	2	Thermally acting auxiliary.	+ 8.0	+ 8.1	+ 7.3	+ 6.5	+ 6.3	+ 6.1	+ 5.6	+ 5.4	+ 5.3	+ 5.3	+ 5.3	
Mercur	565	2	Reverse dent.	-17.3	-16.5	-15.3	-14.4	-14.0	-13.9	-13.9	-11.8	-11.6	-14.8	-17.2	-17.1
Barnes	5657	2	Auxiliary compensation acting in ex-	+ 8.0	+ 8.1	+ 7.3	+ 6.5	+ 6.3	+ 6.1	+ 5.6	+ 5.4	+ 5.3	+ 5.3	+ 5.3	
Penlington	5847	2	Auxiliary compensation. [in exten-	- 7.7	- 1.2	+ 1.9	+ 4.3	+ 6.7	+ 8.6	+ 10.0	+ 8.7	+ 9.3	+ 9.0	+ 8.4	+ 8.6
Keys	956	2	Improved ordinary balance.	+ 9.8	+ 9.3	+ 1.3	+ 3.7	+ 5.9	+ 5.0	+ 8.1	+ 8.5	+ 4.5	+ 2.9	+ 8.9	+ 1.9
Mercur	5454	2	Ordinary balance with small alteration.	+ 5.4	+ 5.2	+ 7.4	+ 6.5	+ 6.0	+ 6.8	+ 1.1	+ 0.5	+ 5.2	+ 0.9	+ 1.8	+ 7.8
Innes	1923	2	Auxiliary to balance.	+ 5.9	+ 5.8	+ 7.6	+ 7.2	+ 7.6	+ 7.0	+ 12.2	+ 11.3	+ 12.8	+ 13.4	+ 12.4	+ 12.2
Webb	554	2	Thermally acting auxiliary.	+ 7.3	+ 6.9	+ 5.3	+ 8.1	+ 8.9	+ 10.1	+ 12.2	+ 11.3	+ 12.8	+ 13.4	+ 12.4	+ 12.2
Uhrig	599	2	Uhrig's continually acting auxiliary.	+ 4.8	+ 5.0	+ 6.8	+ 7.1	+ 8.1	+ 8.0	+ 8.1	+ 8.3	+ 7.9	+ 10.0	+ 12.2	+ 11.3
Jefferson	942	2	 [in exten-	- 3.0	- 3.0	- 4.0	- 4.0	- 4.0	- 4.1	+ 3.5	+ 3.7	+ 3.4	+ 3.3	+ 3.4	+ 2.3
Uhrig & Cole	5686	2	Auxiliary compensation acting in ex-	- 0.1	- 7.4	- 5.8	- 5.8	- 5.4	- 0.9	+ 4.6	+ 5.9	+ 6.0	+ 7.1	+ 1.3	+ 4.5
Webb	554	2	Thermally acting auxiliary.	- 0.7	- 0.6	- 1.8	+ 3.1	+ 3.1	+ 2.6	+ 0.5	+ 0.1	+ 1.4	+ 1.9	+ 6.1	+ 10.1
Innes	1917	2	Auxiliary to balance.	+ 4.3	+ 4.1	+ 6.7	+ 7.1	+ 11.0	+ 11.7	+ 9.3	+ 5.1	+ 2.9	+ 4.7	+ 10.3	+ 17.3
Webb	554	2	Reverse dent; compensation acting	- 4.1	- 8.4	- 1.3	- 1.8	- 0.9	- 2.0	- 3.6	- 5.6	- 10.7	- 9.4	- 1.8	+ 3.8
Penlington	5848	2	Auxiliary compensation.	-11.0	-11.8	-11.4	-9.8	-7.5	-5.9	-0.6	-8.7	-12.4	-17.3	-19.0	-3.5
Keys	956	2	Improved ordinary balance.	+ 8.3	+ 9.0	+ 0.6	+ 7.3	+ 7.9	+ 10.3	+ 10.9	+ 13.7	+ 13.3	+ 12.6	+ 10.3	+ 10.7
Mercur	5454	2	Ordinary balance with small alteration.	-18.2	-20.6	-19.3	-20.3	-20.0	-20.2	-19.9	-19.4	-20.9	-23.3	-12.2	-11.9
Webb	554	2	Reverse dent; reverse movement.	+ 5.6	+ 4.9	+ 12.9	+ 8.7	+ 8.1	+ 5.4	+ 3.0	+ 1.7	+ 1.4	+ 1.3	+ 1.3	+ 1.3
Johnson & Co.	4316	2	Auxiliary acting in heat.	+ 3.6	+ 3.8	+ 3.0	+ 1.1	+ 3.0	+ 1.6	+ 2.1	+ 5.9	+ 6.0	+ 6.7	+ 9.4	+ 10.1
Proyt	916	2	Ordinary balance with an addition.	+ 9.8	+ 11.4	+ 10.9	+ 13.7	+ 14.2	+ 13.0	+ 13.0	+ 15.1	+ 15.9	+ 16.6	+ 15.2	+ 16.9
Clerke	1731	2	Ordinary balance.	- 7.6	- 7.6	- 8.5	- 8.0	- 7.4	- 6.5	- 6.6	- 8.0	- 10.3	- 10.5	- 6.1	- 3.9
Hammerley	1731	2	Auxiliary acting in high temperatures.	- 7.5	- 7.6	- 8.5	- 8.0	- 7.4	- 6.5	- 6.6	- 8.0	- 10.3	- 10.5	- 6.1	- 3.9
M. F. Dent	31047	2	Auxiliary to balance.	- 9.4	- 8.5	- 8.7	- 8.6	- 8.3	- 6.9	- 6.8	- 7.2	- 16.3	- 21.6	- 15.2	- 16.9
Johnson & Co.	4311	2	Auxiliary acting in heat.	- 4.6	- 5.7	- 3.2	- 5.4	- 5.4	- 6.6	- 7.4	+ 5.1	+ 0.5	+ 7.4	+ 6.2	+ 9.8
Webb	554	2	Reverse dent; reverse movement.	-10.8	- 8.7	- 8.5	- 10.6	- 8.4	- 1.5	- 0.5	- 6.0	- 4.7	+ 4.3	+ 1.7	
Johnson & Co.	4311	2	Non-magnetic balance and spring.	-32.7	-35.9	-33.9	-34.7	-35.0	-35.0	-43.1	-45.1	-43.7	-42.1	-39.8	-44.1
Johnson & Co.	4316	2	Auxiliary acting in heat.	+ 7.8	+ 6.9	+ 14.9	+ 17.1	+ 10.9	+ 15.9	+ 9.7	+ 7.8	+ 5.8	+ 14.2	+ 6.9	+ 8.9
Clerke	1726	2	Ordinary balance.	+ 1.3	+ 1.8	+ 2.5	+ 2.8	+ 4.3	+ 3.0	+ 5.5	+ 14.9	+ 19.3	+ 3.8	+ 6.2	
Gardner	1726	2	Positive balance; improved motion.	-13.8	-13.7	-14.0	-14.0	-14.0	-12.7	-12.5	-11.8	-10.4	-9.4	-7.5	+ 1.8
Johnson & Co.	4311	2	Reverse dent; [piece acting in cold.	- 3.7	- 3.7	- 3.5	- 1.8	- 1.7	- 1.0	- 3.1	- 8.2	- 30.7	- 22.1	- 4.4	+ 3.5
Schoof	5930	2	Uhrig's continually acting auxiliary.	+ 8.1	+ 8.1	+ 8.3	+ 8.0	+ 6.1	+ 4.4	+ 2.8	+ 1.3	+ 0.8	+ 1.3	+ 0.8	
Webb	554	2	Reverse dent; compensation acting	+ 8.1	+ 7.1	+ 8.8	+ 9.3	+ 8.4	+ 8.5	+ 8.8	+ 1.2	- 17.8	- 20.4	- 13.3	- 14.5
Johnson & Co.	4311	2	 [in exten-	-13.3	-10.9	-7.8	-7.0	-7.2	-5.8	-3.7	-5.6	-18.4	-10.3	0.0	+ 1.0
Johnson & Co.	4311	2	Non-magnetic balance and spring.	+ 5.3	+ 5.7	+ 5.0	+ 3.2	+ 1.8	+ 6.4	-18.4	-19.6	-19.9	-17.3	-21.9	-14.1
Johnson & Co.	4311	2	Uhrig's continually acting auxiliary.	-19.7	-21.0	-21.5	-22.2	-23.3	-22.7	-23.1	-19.0	-11.0	-8.5	-3.8	
Johnson & Co.	4311	2	Ordinary balance.	+ 4.2	+ 4.7	+ 3.8	+ 4.7	+ 5.7	+ 12.0	+ 12.3	+ 9.2	+ 6.9	+ 5.0	+ 10.6	+ 9.8
Schoof	5930	2	Schoof's resilient lever compensation check	+18.0	+19.4	+19.0	+14.6	+14.4	+18.0	+9.8	+6.7	+12.3	+15.9	+9.9	+5.5
Innes	1930	2	Uhrig's continually acting auxiliary.	+ 8.1	+ 8.1	+ 8.8	+ 8.2	+ 8.0	+ 7.8	+ 9.1	+ 11.4	+ 4.3	+ 2.4	+ 1.3	+ 2.1
Chromometer	Ther-			+ 4.9	+ 10.7	+ 3.622	+ 140.5	+ 200.1	- 24.6	- 536.9	- 1138.0	- 2322.7	- 2439.7	- 1194.9	+ 450.1
Mean Weekly Temperature				68.8	66.4	66.4	66.7	65.4	65.3	75.5	84.1	90.5	95.8	85.1	62.5
Extremes of Temperature as shown by the Self-Registering Thermometers				67.0-72.2-64.7-55.0-63.5-67.6-65.0-68.3-67.8-65.8-73.3-71.0-84.6-77.4-59.7-18.0-102.5-92.0-104.0-79.8-90.8-87.2-45.5											

The sign + indicates that the rate is gaining.

† During these weeks the Chronometers were placed in the chamber of a stove heated by jets of gas, the temperature being regulated by Kullberg's automatic governor which controls the supply of gas. The gas flames are above the chamber, into which none of the injurious products of combustion can enter.

The Chronometrical Thermometer differs from an ordinary Chronometer only in the construction of the balance, the positions of the compensating time being reversed. By this arrangement the effect of temperature is much magnified.

It is to be understood that all Chronometers deposited for trial are included in the Table whatever their performance may be.

IN ORDER OF TIME.

																	NAME OF MAKER.		No.
Sept. 23-30	Sept.30 to Oct.7	Oct. 7-14	Oct. 14-21	Oct. 21-28	Oct.28 to Nov.4	Nov. 4-11	Nov. 11-18	Nov. 18-25	Nov.25 to Dec.2	Dec. 2-9	Dec. 9-16	Dec. 16-23	Dec. 23-30	Dec.30 to Jan.6	Jan. 6-13	Jan. 13-20			
+ 5.8	+ 4.7	+ 7.8	+ 4.2	+ 7.1	+ 4.9	+ 9.0	+ 8.0	+ 8.1	+ 11.0	+ 11.0	+ 10.1	+ 9.9	+ 8.7	+ 15.9	+ 6.6	+ 9.0	Innes	1933	
+ 8.0	+ 4.7	+ 5.4	+ 4.0	+ 4.4	+ 4.0	+ 5.0	+ 6.3	+ 4.9	+ 7.8	+ 8.3	+ 8.3	+ 10.2	+ 8.6	+ 8.4	+ 8.6	+ 8.4	Uhrig	5848	
+ 17.2	+ 17.2	+ 17.6	+ 17.9	+ 16.6	+ 16.0	+ 13.7	+ 13.3	+ 11.6	+ 14.0	+ 10.0	+ 12.4	+ 13.8	+ 13.9	+ 9.5	+ 9.3	+ 12.6	Webb	5545	
+ 17.2	+ 1.4	+ 3.0	+ 6.2	+ 4.4	+ 3.8	+ 2.0	+ 1.3	+ 1.9	+ 1.9	+ 0.8	+ 1.2	+ 0.8	+ 0.7	+ 3.3	+ 0.7	+ 3.3	Penlington	5847	
+ 5.4	+ 7.8	+ 9.1	+ 8.8	+ 6.7	+ 4.6	+ 8.3	+ 0.1	+ 5.1	+ 6.8	+ 3.4	+ 1.2	+ 1.2	+ 0.8	+ 5.7	+ 6.5	+ 3.5			
+ 1.7	+ 4.2	+ 2.8	+ 2.2	+ 2.6	+ 5.3	+ 11.3	+ 10.5	+ 11.8	+ 12.8	+ 9.4	+ 9.1	+ 10.6	+ 9.7	+ 8.8	+ 13.9	+ 11.1	Keys	956	
+ 7.4	+ 6.4	+ 6.0	+ 6.7	+ 6.3	+ 6.1	+ 3.5	+ 2.8	+ 4.4	+ 6.7	+ 8.1	+ 8.8	+ 8.1	+ 8.4	+ 8.8	+ 8.8	+ 8.8	Mercur	5454	
+ 7.3	+ 7.4	+ 7.1	+ 7.5	+ 6.6	+ 13.3	+ 15.8	+ 18.0	+ 17.7	+ 11.3	+ 12.3	+ 9.3	+ 8.7	+ 10.9	+ 8.6	+ 10.3	+ 9.3	Webb	554	
+ 9.4	+ 7.6	+ 8.7	+ 8.3	+ 10.3	+ 13.1	+ 8.8	+ 9.2	+ 8.3	+ 13.9	+ 4.8	+ 11.8	+ 11.8	+ 11.2	+ 9.8	+ 9.3	+ 9.3	Proyt	916	
+ 17.3	+ 17.7	+ 18.9	+ 18.0	+ 20.0	+ 19.9	+ 18.7	+ 19.7	+ 19.0	+ 21.4	+ 23.4	+ 23.4	+ 22.8	+ 19.9	+ 19.9	+ 19.9	+ 19.2	Uhrig	599	
+ 7.7	+ 7.3	+ 6.7	+ 6.9	+ 10.6	+ 10.8	+ 13.4	+ 14.0	+ 14.6	+ 13.8	+ 14.6	+ 9.6	+ 12.1	+ 12.3	+ 14.8	+ 13.3	+ 15.6	Jefferson	942	
+ 11.9	+ 11.9	+ 11.9	+ 11.9	+ 12.7	+ 10.5	+ 9.1	+ 7.9	+ 9.0	+ 16.3	+ 16.1	+ 16.1	+ 16.1	+ 16.1	+ 16.1	+ 16.1	+ 16.1	Uhrig & Cole	5686	
+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	Innes	1917	
+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	+ 16.6	Webb	554	
+ 5.8	+ 5.7	+ 4.3	+ 4.1	+ 2.6	+ 2.0	+ 2.4	+ 3.9	+ 3.0	+ 1.1	+ 6.8	+ 9.8	+ 10.3	+ 7.0	+ 5.5	+ 8.3	+ 2.6	Weir	5680	
- 4.2	- 3.5	- 2.0	- 3.9	- 2.6	- 3.3	- 1.4	- 12.9	- 10.7	- 8.0	- 10.8	- 9.7	- 10.0	- 11.1	- 4.4	- 5.0	- 9.3	Penlington	5848	
- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	- 13.4	Johnson & Co.	4311	
+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	+ 11.6	Johnson & Co.	4316	
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3	+ 18.3			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4			
+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4	+ 18.4										

(11) WEEKLY RATES IN THE

NAME OF MAKER.	No.	Construction of Escapement and Balance, from the Description furnished by the Maker.	Dec. 30 to Jan. 6												NAME OF MAKER.	No.
			Dec. 30 to Jan. 6	6-13	13-20	20-28	28-35	35-42	42-49	49-56	56-63	63-70	70-77	77-84		
Isaac	1833	2	Uhrig's to balance.	+12.0	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Isaac	1833
Uhrig	5885	3	Uhrig's continually acting auxiliary.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Uhrig	5885
Webb	5855	2	Reverse detent.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Webb	5855
Rayney	5857	2	Uhrig's compensation acting in ex- tremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Rayney	5857
Penlington	5847	2	Uhrig's compensation.	+ 5.7	+ 6.5	+ 6.2	+ 1.2	+ 3.4	+ 1.2	+ 3.4	+ 4.5	+ 6.7	+ 5.4	+ 1.7	Penlington	5847
Keys	956	2	Improved ordinary balance.	+ 8.8	+13.9	+ 9.7	+10.6	+ 9.4	+ 9.1	+11.1	+ 8.9	+ 2.6	+ 1.7	+ 3.8	Keys	956
Meror	5454	2	Ordinary balance with small alteration.	+ 8.8	+ 4.8	+ 8.5	+ 8.1	+ 8.3	+ 8.5	+ 8.5	+ 4.3	+ 7.4	+ 4.0	+ 7.8	Meror	5454
Isaac	5856	2	Uhrig's to balance.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Isaac	5856
Pyott	999	2	Ordinary balance with an addition.	+11.7	+ 8.7	+12.0	+11.8	+ 8.8	+10.2	+ 9.3	+11.4	+10.4	+ 9.4	+ 8.7	Pyott	999
Uhrig	599	2	Uhrig's continually acting auxiliary.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Uhrig	599
Jefferson	948	2	Uhrig's compensation acting in ex- tremes.	+14.8	+13.3	+12.3	+12.1	+14.6	+ 9.6	+10.6	+10.8	+10.5	+ 7.7	+ 6.7	Jefferson	948
Isaac & Co.	5850	2	Uhrig's continually acting auxiliary.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Isaac & Co.	5850
Webb	5855	2	Reverse detent; compensation acting in extremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Webb	5855
Weir	5857	2	Reverse detent; compensation acting in extremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Weir	5857
Penlington	5848	2	Uhrig's to balance.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Penlington	5848
Isaac	5856	2	Uhrig's continually acting auxiliary.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Isaac	5856
Webb	5855	2	Reverse detent; compensation acting in extremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Webb	5855
Johnsen & Co.	5815	2	Uhrig's acting in heat.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Johnsen & Co.	5815
Pyott	918	2	Ordinary balance with an addition.	+11.7	+ 8.7	+12.0	+11.8	+ 8.8	+10.2	+ 9.3	+11.4	+10.4	+ 9.4	+ 8.7	Pyott	918
Clerke	1731	2	Ordinary balance.	+11.3	+11.1	+10.9	+10.8	+10.3	+10.2	+10.1	+10.0	+10.0	+10.0	+10.0	Clerke	1731
Hammesley	1348	2	Uhrig's acting in high temperatures.	+11.7	+11.5	+11.4	+11.3	+11.2	+11.1	+11.0	+10.9	+10.8	+10.7	+10.6	Hammesley	1348
M. F. Dent	1007	2	Uhrig's to balance.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	M. F. Dent	1007
M. F. Dent	1007	2	Uhrig's to balance.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	M. F. Dent	1007
Johnsen & Co.	5815	2	Uhrig's acting in heat.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Johnsen & Co.	5815
Webb	5855	2	Reverse detent; compensation acting in extremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Webb	5855
Rayney	5857	2	Uhrig's compensation acting in ex- tremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Rayney	5857
Johnsen & Co.	5815	2	Uhrig's acting in heat.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Johnsen & Co.	5815
Clerke	1732	2	Ordinary balance.	+11.3	+11.1	+10.9	+10.8	+10.3	+10.2	+10.1	+10.0	+10.0	+10.0	+10.0	Clerke	1732
Gardner	1733	2	Ordinary balance.	+11.3	+11.1	+10.9	+10.8	+10.3	+10.2	+10.1	+10.0	+10.0	+10.0	+10.0	Gardner	1733
School	6050	2	School's resilient lever escapement check.	+14.6	+13.9	+12.9	+12.7	+15.0	+10.2	+10.3	+10.3	+10.3	+10.3	+10.3	School	6050
Weir	5857	2	Reverse detent; compensation acting in extremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Weir	5857
Prosser & Sons	3836	2	Pool's auxiliary.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Prosser & Sons	3836
Isaac	5856	2	Uhrig's continually acting auxiliary.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Isaac	5856
Hammesley	1348	2	Uhrig's acting in high temperatures.	+11.7	+11.5	+11.4	+11.3	+11.2	+11.1	+11.0	+10.9	+10.8	+10.7	+10.6	Hammesley	1348
Rayney	5857	2	Uhrig's compensation acting in ex- tremes.	+10.2	+ 8.6	+ 8.3	+ 8.3	+ 7.8	+ 8.3	+ 8.4	+ 8.0	+ 4.4	+ 6.8	+ 4.7	Rayney	5857
Clerke	1733	2	Ordinary balance.	+11.3	+11.1	+10.9	+10.8	+10.3	+10.2	+10.1	+10.0	+10.0	+10.0	+10.0	Clerke	1733
School	6050	2	School's resilient lever escapement check.	+14.6	+13.9	+12.9	+12.7	+15.0	+10.2	+10.3	+10.3	+10.3	+10.3	+10.3	School	6050
Uhrig	5885	2	Uhrig's continually acting auxiliary.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Uhrig	5885
Isaac	5856	2	Uhrig's continually acting auxiliary.	+10.2	+ 8.6	+ 8.7	+ 9.0	+11.0	+10.1	+ 9.0	+ 8.9	+ 7.1	+ 9.8	+ 7.8	Isaac	5856

The sign + indicates that the rate is gaining.
 † During these weeks the Chronometers were placed in the chamber of a stove heated by jets of gas, the temperature being regulated by Kallberg's automatic governor which controls the supply of gas. The gas flames are exterior to the chamber, into which none of the injurious products of combustion can enter.
 The Chronometrical Thermometer differs from an ordinary Chronometer in the construction of the balance, the positions of the metals forming the compensating ring being reversed. By this arrangement the effect of temperature is much magnified.
 It is to be understood that all Chronometers deposited for trial are included in the Table whatever their performance may be.

ORDER OF TEMPERATURE AS DETERMINED GENERALLY BY THE CHRONOMETRICAL THERMOMETER.																NAME OF MAKER.		No.	
Oct. 1-10	Sept. 16-23	July 15-22	July 20 to Aug. 5	July 22-29	July 1-8	July 8-15	Aug. 5-12	Aug. 12-19	Nov. 4-11	Aug. 19-26	Sept. 9-16	Nov. 23 to Dec. 2	Nov. 18-25	Nov. 11-18	Aug. 26 to Sept. 2	Sept. 2-9			
+ 6.2	+ 9.3	+ 7.3	+ 6.3	+ 6.5	+ 8.0	+ 5.1	+ 6.1	+ 6.5	+ 9.0	+ 4.8	+ 6.8	+ 11.0	+ 9.1	+ 9.0	+ 3.5	+ 3.8	Isaac	1933	
+ 4.0	+ 3.8	+ 0.9	+ 0.6	+ 0.6	+ 0.8	+ 0.8	+ 0.8	+ 1.9	+ 4.5	+ 2.8	+ 4.7	+ 4.9	+ 9.1	+ 9.0	+ 2.7	+ 2.7	Uhrig	5885	
+ 18.9	+ 17.1	+ 14.0	+ 14.4	+ 14.7	+ 14.6	+ 13.9	+ 13.7	+ 14.0	+ 11.8	+ 11.8	+ 11.6	+ 14.0	+ 11.8	+ 11.6	+ 14.0	+ 14.0	Webb	5855	
+ 1.0	+ 0.4	+ 1.1	+ 0.9	+ 0.8	+ 0.7	+ 0.7	+ 0.7	+ 0.8	+ 1.1	+ 0.1	+ 1.9	+ 1.9	+ 1.3	+ 0.9	+ 0.6	+ 0.6	Rayney	5857	
+ 8.5	+ 4.0	+ 1.0	+ 0.7	+ 4.3	+ 0.7	+ 1.2	+ 8.0	+ 10.0	+ 8.2	+ 3.7	+ 5.4	+ 6.8	+ 5.1	+ 0.1	+ 0.3	+ 0.3	Penlington	5847	
+ 3.2	+ 1.8	+ 1.5	+ 2.0	+ 3.7	+ 0.8	+ 1.3	+ 5.0	+ 8.1	+ 11.3	+ 8.5	+ 8.9	+ 13.8	+ 11.8	+ 10.5	+ 4.5	+ 4.5	Keys	956	
+ 4.7	+ 7.8	+ 7.4	+ 6.0	+ 8.5	+ 5.8	+ 5.8	+ 5.8	+ 5.8	+ 1.1	+ 3.8	+ 5.8	+ 1.8	+ 5.8	+ 4.4	+ 3.8	+ 3.8	Meror	5454	
+ 7.5	+ 9.0	+ 7.8	+ 7.2	+ 5.9	+ 7.3	+ 7.6	+ 1.8	+ 1.8	+ 1.8	+ 1.8	+ 1.8	+ 1.8	+ 1.8	+ 1.8	+ 1.8	+ 1.8	Pyott	999	
+ 5.5	+ 5.3	+ 5.3	+ 8.1	+ 7.8	+ 0.0	+ 1.3	+ 13.2	+ 8.8	+ 14.7	+ 10.4	+ 13.9	+ 9.3	+ 9.2	+ 8.9	+ 8.6	+ 8.6	Uhrig	599	
+ 11.4	+ 17.3	+ 0.7	+ 11.0	+ 7.1	+ 4.3	+ 6.1	+ 11.7	+ 4.9	+ 17.0	+ 6.1	+ 16.5	+ 11.4	+ 8.0	+ 13.8	+ 4.7	+ 4.7	Jefferson	948	
+ 2.1	+ 3.8	+ 1.3	+ 0.9	+ 1.8	+ 4.1	+ 3.4	+ 2.0	+ 3.6	+ 2.4	+ 5.5	+ 1.8	+ 1.1	+ 3.9	+ 10.7	+ 9.4	+ 9.4	Weir	5857	
+ 3.9	+ 3.5	+ 11.4	+ 7.5	+ 9.8	+ 11.0	+ 11.3	+ 5.9	+ 6.0	+ 1.4	+ 8.7	+ 6.9	+ 8.0	+ 10.7	+ 12.9	+ 15.4	+ 15.4	Penlington	5848	
+ 13.6	+ 14.7	+ 6.0	+ 7.9	+ 7.3	+ 8.0	+ 9.9	+ 13.9	+ 17.1	+ 18.7	+ 16.9	+ 18.0	+ 15.7	+ 17.1	+ 13.8	+ 13.8	+ 13.8	Isaac	5856	
+ 10.9	+ 11.0	+ 10.9	+ 10.0	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	+ 10.3	Meror	5454	
+ 17.1	+ 18.5	+ 10.9	+ 8.1	+ 8.7	+ 6.1	+ 8.4	+ 5.4	+ 8.0	+ 18.6	+ 4.4	+ 11.5	+ 12.3	+ 13.4	+ 10.4	+ 4.6	+ 4.6	Webb	5855	
+ 10.4	+ 10.1	+ 3.0	+ 3.0	+ 1.1	+ 3.6	+ 8.8	+ 1.6	+ 2.1	+ 10.0	+ 5.9	+ 8.4	+ 6.3	+ 3.2	+ 6.1	+ 6.7	+ 6.7	Johnsen & Co.	5815	
+ 3.3	+ 10.9	+ 15.0	+ 14.2	+ 13.7	+ 9.8	+ 11.4	+ 13.0	+ 13.6	+ 19.6	+ 10.1	+ 15.9	+ 9.0	+ 81.0	+ 28.7	+ 15.9	+ 15.9	Pyott	918	
+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	+ 11.3	Clerke	1731	
+ 11.6	+ 8.0	+ 8.7	+ 8.0	+ 8.1	+ 7.5	+ 7.7	+ 8.0	+ 8.2	+ 7.1	+ 4.0	+ 6.1	+ 12.5	+ 11.8	+ 12.3	+ 8.4	+ 8.4	Hammesley	1348	
+ 4.3	+ 2.7	+ 6.9	+ 8.1	+ 8.7	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	+ 6.0	M. F. Dent	1007	
+ 11.6	+ 14.9	+ 17.7	+ 8.3	+ 8.6	+ 9.4	+ 8.1	+ 6.9	+ 6.3	+ 4.4	+ 7.2	+ 15.9	+ 7.4	+ 9.3	+ 9.1	+ 10.6	+ 10.6	M. F. Dent	1007	
+ 4.9	+ 3.8	+ 3.8	+ 5.4	+ 5.4	+ 4.4	+ 4.6	+ 5.7	+ 6.3	+ 7.4	+ 3.5	+ 6.1	+ 6.2	+ 4.9	+ 4.8	+ 7.4	+ 7.4	Johnsen & Co.	5815	
+ 10.3	+ 2.1	+ 8.5	+ 9.4	+ 10.6	+ 10.8	+ 8.7	+ 10.1	+ 10.5	+ 2.9	+ 4.7	+ 4.8	+ 2.7	+ 2.0	+ 3.1	+ 4.1	+ 4.1	Webb	5855	
+ 3.9	+ 1.7	+ 0.8	+ 0.6	+ 1.3	+ 7.5	+ 6.3	+ 1.5	+ 0.5	+ 0.1	+ 6.0	+ 4.3	+ 0.7	+ 0.9	+ 2.0	+ 8.7	+ 8.7	Rayney	5857	
+ 17.4	+ 5.7	+ 14.9	+ 16.0	+ 17.1	+ 7.8	+ 8.9	+ 15.9	+ 8.0	+ 8.8	+ 0.7	+ 3.9	+ 9.4	+ 8.3	+ 0.8	+ 14.2	+ 14.2	Johnsen & Co.	5815	
+ 1.5	+ 6.2	+ 2.5	+ 4.3	+ 3.8	+ 1.8	+ 1.8	+ 3.0	+ 0.5	+ 5.5	+ 3.5	+ 2.8	+ 1.9	+ 0.7	+ 3.6	+ 14.9	+ 14.9	Clerke	1732	
+ 0.0	+ 1.8	+ 4.6	+ 7.6	+ 7.1	+ 0.8	+ 0.7	+ 10.7	+ 15.5	+ 3.5	+ 11.8	+ 7.5	+ 3.8	+ 4.4	+ 10.4	+ 9.4	+ 9.4	Gardner	1733	
+ 1.5	+ 5.5	+ 0.4	+ 1.7	+ 1.8	+ 0.7	+ 1.0	+ 3.5	+ 0.5	+ 1.7	+ 1.4	+ 0.7	+ 1.7	+ 1.4	+ 0.7	+ 1.7	+ 1.7	School	6050	
+ 5.2	+ 10.8	+ 3.8	+ 5.1	+ 3.0	+ 3.3	+ 3.5	+ 2.4	+ 1.0	+ 8.5	+ 3.5	+ 6.5	+ 3.0	+ 7.4	+ 2.0	+ 13.2	+ 13.2	0.9	School	6050
+ 15.5	+ 14.6	+ 8.8	+ 8.4	+ 9.3	+ 8.1	+ 7.1	+ 8.5	+ 6.8	+ 17.9	+ 1.2	+ 15.3	+ 26.1	+ 30.3	+ 33.0	+ 17.8	+ 17.8	0.4	Uhrig	5917
+ 11.0	+ 1.0	+ 7.8	+ 7.2	+ 7.9	+ 13.3	+ 10.9	+ 5.8	+ 3.7	+ 11.0	+ 5.6	+ 0.0	+ 4.0	+ 7.5	+ 6.9	+ 13.4	+ 13.4	Frederick & Kim	3830	
+ 18.5	+ 14.6	+ 5.0	+ 1.8	+ 3.9	+ 3.2	+ 3.7	+ 6.4	+ 18.4	+ 22.7	+ 19.8	+ 20.0	+ 17.5	+ 22.5	+ 19.9	+ 17.3	+ 17.3	Haswell & Sons	2919	
+ 3.8	+ 3.0	+ 3.4	+ 3.1	+ 4.5	+ 4.0	+ 2.6	+ 3.7	+ 3.9	+ 3.3	+ 3.3	+ 2.6	+ 3.3	+ 3.0	+ 3.7	+ 3.0	+ 3.0	Hammesley	1348	
+ 3.9	+ 0.8	+ 3.8	+ 3.7	+ 4.7	+ 4.2	+ 4.7	+ 12.0	+ 13.0	+ 8.7	+ 9.2	+ 10.0	+ 13.7	+ 10.8	+ 11.4	+ 9.0	+ 9.0	Clerke	1733	
+ 26.4	+ 31.7	+ 19.0	+ 14.4	+ 14.8	+ 18.0	+ 19.4	+ 18.0	+ 20.2	+ 33.9	+ 40.0	+ 47.0	+ 43.7	+ 39.5	+ 40.1	+ 19.0	+ 19.0	School	6050	
+ 4.1	+ 3.1	+ 8.8	+ 8.0	+ 8.6	+ 11.0	+ 11.1	+ 7.8	+ 9.1	+ 11.4	+ 15.5	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	Uhrig	5856	
+ 4.1	+ 3.1	+ 8.8	+ 8.0	+ 8.6	+ 11.0	+ 11.1	+ 7.8	+ 9.1	+ 11.4	+ 15.5	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	Isaac	1930	
+ 752.2	+ 480.1	+ 328.2	+ 430.1	+ 140.5	+ 4.9	+ 10.7	+ 24.6	+ 586.0	+ 670.6	+ 1135.0	+ 1194.9	+ 1327.4	+ 1678.4	+ 2115.8	+ 2333.7	+ 3439.7	Chromometrical Thermometer		
+ 60.4	+ 65.5	+ 68.4	+ 65.4	+ 67.7	+ 68.8	+ 64.4	+ 68.3	+ 75.5	+ 75.7	+ 84.1	+ 81.8	+ 81.2	+ 85.5	+ 90.4	+ 90.5	+ 8.8	Mean Weekly Temperature.		
Extremes of Temperature as shown by																			

NAME OF MAKER.	No.	Whether on Days.	ADDRESS OF MAKER.	Construction of Escapement and Balance, from the Description furnished by the Maker.	(III.) ABSTRACT OF	
					Least Weekly Sum.	Extremes of Temperature.
Isaac	1938	2	10, Spencer Street, Clerkenwell, E.C.	Auxiliary to balance.	+ 3.5	87° 0' - 102° 5'
Uhrig	585	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	- 0.9	65° 0' - 87° 0'
Webb	5855	2	90, High Street, Islington, N.	Reverse detent.	- 18.9	67° 0' - 84° 8'
Ramsay	5867	2	5, High Street, Dundee.	Auxiliary compensation acting in extremes.	- 0.8	65° 0' - 89° 4'
Pennington	5867	2	2 & 3, St. George's Crescent, Liverpool.	Auxiliary compensation.	- 0.7	67° 0' - 72° 2'
Keys	956	2	91, Piccadilly, W.	Improved ordinary balance.	+ 0.6	67° 0' - 72° 2'
Morser	5454	2	Prospect Road, St. Albans, Herts.	Ordinary balance with small alteration.	- 0.8	67° 0' - 84° 8'
Isaac	1923	2	10, Spencer Street, Clerkenwell, E.C.	Auxiliary to balance.	+ 0.9	67° 0' - 72° 2'
Fryett	999	8	74, West India Dock Road, E.	Ordinary balance with an addition.	+ 4.8	68° 0' - 81° 6'
Uhrig	599	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	+ 4.8	67° 0' - 72° 2'
Jefferson	942	2	1, Fish Street, Hall.	Improved ordinary balance.	- 4.0	65° 0' - 89° 4'
Usher & Cole	5856	2	105, St. John Street Road, E.C.	Auxiliary compensation acting in extremes.	- 0.6	68° 0' - 84° 8'
Uhrig	600	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	- 0.7	67° 0' - 72° 2'
Isaac	1917	2	10, Spencer Street, Clerkenwell, E.C.	Auxiliary to balance.	+ 2.8	67° 0' - 102° 5'
Weit	5915	2	60, Buchanan Street, Glasgow.	Reverse detent; compensation acting in extremes.	- 1.7	67° 0' - 102° 5'
Pennington	2849	2	2 & 3, St. George's Crescent, Liverpool.	Auxiliary to balance.	- 17.2	68° 0' - 104° 0'
Keys	954	2	91, Piccadilly, W.	Improved ordinary balance.	+ 0.6	68° 0' - 84° 8'
Morser	5432	2	Prospect Road, St. Albans, Herts.	Ordinary balance with small alteration.	- 20.2	67° 0' - 104° 0'
Webb	5902	2	90, High Street, Islington, N.	Reverse detent; reverse movement.	- 4.0	67° 0' - 102° 5'
Johnsen & Co.	4312	2	149, Minories, E.C.	Auxiliary acting in heat.	+ 1.1	65° 0' - 89° 4'
Fryett	916	2	74, West India Dock Road, E.	Ordinary balance with an addition.	+ 0.8	67° 0' - 72° 2'
Clerke	1721	2	1, Royal Exchange, E.C.	Ordinary balance.	- 10.2	68° 0' - 104° 0'
Hammerley	5915	2	"Glenfern," Grassville Road, St. Albans.	Auxiliary acting in high temperatures.	- 17.2	67° 0' - 102° 5'
M. F. Dent	31048	2	33, Cockspur Street, S.W.	Auxiliary to balance.	- 17.0	67° 0' - 102° 5'
M. F. Dent	31047	2	33, Cockspur Street, S.W.	Auxiliary to balance.	- 20.1	64° 0' - 50° 6'
Johnsen & Co.	4311	2	149, Minories, E.C.	Auxiliary acting in heat.	- 7.4	71° 0' - 84° 8'
Webb	5856	2	90, High Street, Islington, N.	Reverse detent; reverse movement.	- 53.4	74° 0' - 89° 4'
Johnsen & Co.	4266	2	149, Minories, E.C.	Non-magnetic balance and spring.	- 62.4	74° 0' - 89° 4'
Clerke	1725	2	1, Royal Exchange, E.C.	Auxiliary acting in heat.	- 14.2	68° 0' - 104° 0'
Gardner	3210	2	20, Lloyd's Square, W.C.	Ordinary balance.	- 19.8	68° 0' - 104° 0'
Prosham & Keen	3836	2	31, South Castle Street, Liverpool.	Loosey balance; improved mount.	- 12.5	71° 0' - 84° 8'
Prosham & Keen	3836	2	31, South Castle Street, Liverpool.	Poole's auxiliary.	- 22.1	69° 0' - 104° 0'
Schoof	6056	2	90, St. John Street Road, E.C.	Schoof's resilient heat escapement clock-piece.	- 10.3	69° 0' - 104° 0'
Weit	5915	2	60, Buchanan Street, Glasgow.	Reverse detent; compensation acting in extremes.	- 24.1	74° 0' - 89° 4'
Prosham & Keen	3836	2	31, South Castle Street, Liverpool.	Poole's auxiliary.	- 18.4	67° 0' - 102° 5'
Hamwell & Sons	2019	2	40 & 50, Spencer Street, Clerkenwell, E.C.	Non-magnetic balance and spring.	- 32.7	67° 0' - 84° 8'
Hammerley	5915	2	"Glenfern," Grassville Road, St. Albans.	Constantly acting auxiliary, without friction.	- 24.7	68° 0' - 104° 0'
Hamwell & Sons	2019	2	40 & 50, Spencer Street, Clerkenwell, E.C.	Non-magnetic balance and spring.	- 24.4	71° 0' - 84° 8'
Clerke	1723	2	1, Royal Exchange, E.C.	Ordinary balance.	- 23.4	64° 0' - 50° 6'
Schoof	6056	2	90, St. John Street Road, E.C.	Schoof's resilient heat escapement clock-piece.	+ 8.5	64° 0' - 50° 6'
Uhrig	578	2	8, Quadrant Road, Essex Road, N.	Uhrig's continually acting auxiliary.	- 50.5	36° 8' - 48° 9'

The sign + indicates that the rate is gaining.

It is to be understood that all chronometers deposited for trial are included in the Table whatever their performance may be.

THE PRINCIPAL CHANGES OF RATE DURING THE 29 WEEKS.

Mean Temperature.	Greatest Weekly Sum.	Extremes of Temperature.	Mean Temperature.	Difference between the Greatest and Least.	Greatest Difference between one Week and the next.	Mean Temperature for these two Weeks.	Trial No. + 2 & 4.	NAME OF MAKER.	No.
68° 5'	+ 12° 0'	36° 8' - 48° 9'	43° 4'	8° 5'	3° 3'	68° 8' - 85° 1'	15-1	Isaac	1938
65° 4'	+ 10° 2'	36° 8' - 48° 9'	43° 4'	10° 2'	2° 9'	81° 2' - 47° 1'	18-0	Uhrig	585
65° 4'	- 9° 3'	36° 8' - 48° 9'	43° 4'	9° 4'	4° 4'	69° 1' - 43° 4'	18-4	Webb	5855
65° 4'	+ 2° 5'	36° 8' - 48° 9'	43° 4'	3° 0'	3° 3'	63° 8' - 72° 2'	19-9	Ramsay	5867
68° 8'	+ 10° 0'	71° 0' - 84° 8'	75° 5'	10° 7'	8° 1'	75° 7' - 90° 4'	20-9	Pennington	5867
68° 8'	+ 13° 0'	34° 0' - 50° 6'	43° 4'	13° 1'	7° 1'	85° 1' - 68° 5'	27-3	Keys	956
68° 8'	+ 3° 5'	67° 0' - 84° 7'	75° 7'	12° 8'	7° 6'	68° 8' - 75° 7'	27-5	Morser	5454
68° 8'	+ 18° 7'	74° 0' - 86° 0'	81° 8'	12° 8'	7° 6'	81° 2' - 47° 1'	27-8	Isaac	1923
47° 1'	+ 14° 7'	77° 4' - 80° 1'	84° 1'	9° 9'	0° 1'	81° 2' - 47° 1'	28-1	Fryett	999
68° 8'	+ 25° 3'	48° 0' - 53° 4'	60° 9'	10° 6'	5° 8'	43° 4' - 50° 9'	31-0	Uhrig	599
66° 7'	+ 15° 6'	48° 0' - 53° 4'	50° 9'	19° 6'	7° 1'	85° 1' - 68° 5'	33-8	Jefferson	942
65° 4'	+ 7° 7'	67° 0' - 84° 7'	75° 7'	17° 3'	8° 4'	68° 8' - 85° 1'	34-1	Usher & Cole	5856
68° 8'	+ 20° 0'	34° 0' - 50° 6'	43° 4'	20° 7'	10° 6'	81° 2' - 47° 1'	35-3	Uhrig	600
65° 4'	+ 17° 3'	67° 0' - 85° 6'	62° 5'	14° 5'	10° 6'	68° 8' - 85° 1'	35-5	Isaac	1917
65° 4'	+ 10° 2'	48° 0' - 53° 4'	50° 9'	10° 6'	7° 6'	68° 8' - 85° 1'	36-1	Weit	5915
68° 8'	- 1° 4'	67° 0' - 84° 7'	75° 7'	15° 8'	11° 5'	75° 7' - 90° 4'	38-8	Pennington	2849
68° 8'	+ 20° 1'	48° 0' - 53° 4'	50° 9'	21° 5'	10° 7'	69° 4' - 69° 4'	38-9	Keys	954
68° 8'	- 5° 6'	74° 0' - 85° 9'	81° 3'	17° 0'	11° 0'	68° 8' - 85° 1'	39-6	Morser	5432
65° 4'	+ 20° 3'	36° 8' - 48° 9'	43° 4'	21° 6'	1° 1'	81° 2' - 47° 1'	39-8	Webb	5902
66° 7'	+ 23° 5'	48° 0' - 53° 4'	49° 2'	22° 4'	9° 5'	81° 2' - 47° 1'	40-8	Johnsen & Co.	4312
68° 8'	+ 23° 1'	48° 0' - 53° 4'	50° 9'	22° 3'	9° 1'	75° 7' - 90° 4'	41-5	Fryett	916
68° 8'	+ 2° 8'	67° 0' - 84° 7'	75° 7'	19° 3'	11° 4'	68° 8' - 85° 1'	42-1	Clerke	1721
68° 8'	+ 21° 5'	48° 0' - 53° 4'	50° 9'	21° 2'	10° 6'	68° 8' - 75° 7'	44-3	Hammerley	5915
68° 8'	+ 2° 8'	34° 0' - 50° 6'	43° 4'	19° 8'	10° 6'	68° 8' - 85° 1'	45-0	M. F. Dent	31048
43° 4'	- 4° 4'	67° 0' - 84° 7'	75° 7'	21° 7'	13° 0'	81° 2' - 47° 1'	47° 7'	M. F. Dent	31047
75° 5'	+ 9° 8'	67° 0' - 85° 5'	62° 5'	13° 5'	15° 5'	75° 5' - 84° 1'	48° 3'	Johnsen & Co.	4311
69° 7'	+ 5° 7'	77° 4' - 80° 1'	84° 1'	17° 3'	12° 8'	75° 5' - 84° 1'	48° 7'	Johnsen & Co.	4266
68° 8'	+ 19° 2'	36° 8' - 48° 9'	43° 4'	19° 2'	12° 8'	81° 2' - 47° 1'	49° 0'	Webb	5856
81° 2'	- 20° 2'	34° 0' - 50° 6'	43° 4'	23° 3'	10° 4'	43° 4' - 50° 9'	50° 0'	Hamwell & Sons	2019
68° 8'	+ 19° 1'	55° 1' - 62° 3'	58° 1'	23° 2'	12° 7'	48° 5' - 81° 2'	50° 7'	Johnsen & Co.	4266
68° 8'	+ 0° 8'	57° 0' - 65° 5'	62° 5'	26° 0'	17° 0'	68° 8' - 85° 1'	60° 0'	Clerke	1725
68° 8'	+ 13° 5'	48° 0' - 53° 4'	50° 9'	17° 1'	11° 0'	81° 2' - 47° 1'	60° 4'	Gardner	3210
68° 8'	+ 0° 0'	36° 8' - 48° 9'	43° 4'	11° 1'	17° 7'	68° 8' - 85° 1'	66° 5'	Prosham & Keen	3836
68° 8'	+ 13° 0'	37° 0' - 61° 8'	49° 2'	31° 2'	17° 3'	85° 1' - 68° 5'	67° 8'	Schoof	6056
68° 8'	+ 9° 3'	65° 0' - 69° 4'	66° 7'	33° 4'	19° 0'	84° 1' - 98° 5'	71° 4'	Weit	5915
69° 5'	+ 25° 0'	36° 8' - 48° 9'	43° 4'	43° 4'	16° 3'	68° 8' - 85° 1'	76° 0'	Prosham & Keen	3836
68° 8'	+ 0° 9'	36° 8' - 48° 9'	43° 4'	20° 4'	18° 2'	81° 2' - 47° 1'	82° 4'	Hamwell & Sons	2019
43° 4'	- 19° 2'	75° 0' - 102° 5'	90° 4'	35° 4'	34° 5'	81° 2' - 47° 1'	83° 9'	Hammerley	5915
75° 5'	+ 23° 5'	34° 0' - 50° 6'	43° 4'	40° 4'	28° 6'	81° 2' - 47° 1'	86° 6'	Hamwell & Sons	2021
43° 4'	+ 13° 7'	74° 0' - 86° 0'	81° 2'	137° 1'	34° 0'	81° 2' - 47° 1'	98° 7'	Clerke	1723
43° 4'	+ 47° 0'	79° 8' - 90° 8'	85° 1'	36° 5'	31° 3'	81° 2' - 47° 1'	101° 1'	Schoof	6056
43° 4'	- 1° 5'	49° 4' - 57° 8'	53° 8'	49° 0'	52° 2'	48° 4' - 50° 9'	109° 4'	Uhrig	578

The Chronometers are placed in order of merit, their respective positions being determined by consideration of the irregularities of rate exhibited in the Table above. The Trial No. + 2 & 4 is taken as a measure of the irregularities of rate.

The Chronometer Isaac 1900 was removed by the maker in the fourth week of the trial, the compensating having been found broken. Its rates not being comparable with the others it is omitted in the Table above.