

RATES OF CHRONOMETERS

ON TRIAL

FOR PURCHASE BY THE BOARD OF ADMIRALTY,

AT THE

ROYAL OBSERVATORY, GREENWICH.

1880.

NAME or MAKER.	No.	Whether in Case of Description furnished by the Maker.	(L) WEEKLY SUMS OF DAILY RATES															NAME or MAKER.	No.
			Jan. 10-17	Jan. 17-24	Jan. 24-31	Jan. 31-Feb. 7	Feb. 7-14	Feb. 14-21	Feb. 21-28	Feb. 28-Mar. 6	Mar. 6-13	Mar. 13-20	Mar. 20-27	Mar. 27-Apr. 3	Apr. 3-10	Apr. 10-17	Apr. 17-24		
Cornell	5658	2	+ 08	+ 71	+ 79	+ 61	+ 60	+ 49	+ 44	+ 33	+ 03	+ 28	+ 35	+ 51	+ 64	+ 81	+ 96	Cornell	5658
Kullberg	3970	2	+ 36	+ 29	+ 28	+ 47	+ 64	+ 75	+ 65	+ 109	+ 108	+ 130	+ 141	+ 124	+ 126	+ 119	+ 130	Kullberg	3970
Matheson	3000	2	+ 07	+ 65	+ 89	+ 100	+ 71	+ 89	+ 80	+ 00	+ 05	+ 10	+ 14	+ 45	+ 43	+ 45	+ 52	Matheson	3000
Johnston and Co.	3797	2	+ 01	+ 13	+ 04	+ 30	+ 70	+ 89	+ 80	+ 00	+ 05	+ 10	+ 14	+ 45	+ 43	+ 45	+ 52	Johnston and Co.	3797
Aitchison	3976	2	+ 49	+ 56	+ 57	+ 92	+ 56	+ 59	+ 50	+ 98	+ 61	+ 99	+ 92	+ 35	+ 60	+ 72	+ 61	Aitchison	3976
Crip	4113	2	+ 43	+ 37	+ 21	+ 10	+ 09	+ 30	+ 44	+ 11	+ 55	+ 49	+ 58	+ 97	+ 33	+ 06	+ 12	Crip	4113
Went and Sons	5589	2	+ 13	+ 27	+ 28	+ 19	+ 29	+ 60	+ 52	+ 00	+ 13	+ 10	+ 17	+ 09	+ 24	+ 05	+ 26	Went and Sons	5589
Edwards and Sons	3797	2	+ 07	+ 44	+ 51	+ 75	+ 67	+ 04	+ 02	+ 13	+ 20	+ 25	+ 61	+ 13	+ 25	+ 29	+ 04	Edwards and Sons	3797
P. Hirschall	1382	2	+ 09	+ 43	+ 27	+ 25	+ 11	+ 19	+ 36	+ 09	+ 38	+ 45	+ 61	+ 13	+ 25	+ 29	+ 04	P. Hirschall	1382
Moore	1866	2	+ 41	+ 45	+ 07	+ 29	+ 71	+ 82	+ 76	+ 94	+ 11	+ 55	+ 83	+ 102	+ 139	+ 129	+ 130	Moore	1866
Sewill	3775	2	+ 20	+ 34	+ 20	+ 17	+ 31	+ 20	+ 05	+ 72	+ 98	+ 131	+ 139	+ 157	+ 173	+ 140	+ 165	Sewill	3775
J. Poole and Co.	3792	2	+ 132	+ 138	+ 145	+ 63	+ 47	+ 34	+ 40	+ 06	+ 65	+ 35	+ 15	+ 08	+ 13	+ 25	+ 29	J. Poole and Co.	3792
Glover	3830	2	+ 110	+ 110	+ 121	+ 139	+ 144	+ 161	+ 150	+ 132	+ 63	+ 95	+ 102	+ 58	+ 40	+ 89	+ 133	Glover	3830
Inace	1645	2	+ 193	+ 130	+ 121	+ 151	+ 155	+ 140	+ 140	+ 70	+ 149	+ 145	+ 136	+ 139	+ 95	+ 49	+ 15	Inace	1645
Keys	3791	2	+ 123	+ 103	+ 120	+ 43	+ 38	+ 11	+ 08	+ 52	+ 66	+ 67	+ 62	+ 89	+ 91	+ 101	+ 113	Keys	3791
Went and Sons	5589	2	+ 203	+ 197	+ 199	+ 135	+ 96	+ 80	+ 102	+ 54	+ 109	+ 68	+ 73	+ 01	+ 17	+ 14	+ 11	Went and Sons	5589
P. Hirschall	1382	2	+ 12	+ 06	+ 02	+ 38	+ 76	+ 74	+ 70	+ 100	+ 130	+ 150	+ 165	+ 110	+ 121	+ 124	+ 146	P. Hirschall	1382
Moore	1866	2	+ 70	+ 60	+ 35	+ 00	+ 50	+ 72	+ 53	+ 14	+ 05	+ 62	+ 123	+ 105	+ 88	+ 80	+ 120	Moore	1866
Skellern	3054	2	+ 82	+ 71	+ 55	+ 30	+ 55	+ 72	+ 53	+ 14	+ 05	+ 62	+ 123	+ 105	+ 88	+ 80	+ 120	Skellern	3054
Williams	2129	2	+ 06	+ 23	+ 39	+ 08	+ 03	+ 05	+ 00	+ 110	+ 75	+ 128	+ 139	+ 45	+ 37	+ 23	+ 04	Williams	2129
Shepherd and Son	1836	2	+ 193	+ 210	+ 222	+ 170	+ 134	+ 89	+ 118	+ 60	+ 120	+ 65	+ 40	+ 25	+ 10	+ 01	+ 59	Shepherd and Son	1836
Sewill	3362	2	+ 54	+ 59	+ 72	+ 30	+ 49	+ 34	+ 38	+ 62	+ 05	+ 55	+ 87	+ 149	+ 166	+ 168	+ 191	Sewill	3362
Quilliam	3016	2	+ 35	+ 97	+ 83	+ 29	+ 33	+ 33	+ 25	+ 17	+ 15	+ 10	+ 07	+ 198	+ 215	+ 228	+ 258	Quilliam	3016
Hennery	4897	2	+ 107	+ 90	+ 100	+ 117	+ 138	+ 135	+ 120	+ 67	+ 66	+ 11	+ 10	+ 150	+ 153	+ 158	+ 169	Hennery	4897
Pyott	474	2	+ 78	+ 90	+ 71	+ 12	+ 58	+ 113	+ 129	+ 93	+ 11	+ 13	+ 13	+ 155	+ 157	+ 164	+ 162	Pyott	474
Matheson	3000	2	+ 08	+ 116	+ 179	+ 10	+ 69	+ 99	+ 111	+ 45	+ 69	+ 42	+ 29	+ 34	+ 34	+ 27	+ 38	Matheson	3000
Riego	3577	2	+ 136	+ 63	+ 53	+ 05	+ 18	+ 30	+ 28	+ 00	+ 45	+ 81	+ 91	+ 83	+ 54	+ 47	+ 01	Riego	3577
Hennery	4894	2	+ 100	+ 807	+ 293	+ 13	+ 17	+ 50	+ 28	+ 79	+ 82	+ 40	+ 20	+ 65	+ 86	+ 97	+ 125	Hennery	4894
Lister and Sons	894	2	+ 69	+ 87	+ 85	+ 54	+ 41	+ 33	+ 47	+ 79	+ 168	+ 160	+ 160	+ 40	+ 35	+ 30	+ 24	Lister and Sons	894
Penlington & Hutton	2128	2	+ 215	+ 255	+ 240	+ 185	+ 168	+ 159	+ 172	+ 100	+ 29	+ 14	+ 28	+ 85	+ 60	+ 84	+ 40	Penlington & Hutton	2128
Quilliam	3016	2	+ 189	+ 180	+ 226	+ 140	+ 168	+ 141	+ 152	+ 162	+ 269	+ 186	+ 175	+ 02	+ 143	+ 161	+ 124	Quilliam	3016
Shepherd and Son	1836	2	+ 02	+ 20	+ 31	+ 20	+ 10	+ 08	+ 08	+ 70	+ 105	+ 60	+ 53	+ 65	+ 108	+ 124	+ 140	Shepherd and Son	1836
Reid and Sons	3080	2	+ 152	+ 73	+ 47	+ 145	+ 223	+ 265	+ 235	+ 380	+ 415	+ 435	+ 430	+ 345	+ 405	+ 423	+ 479	Reid and Sons	3080
Ainsley	4118	2	+ 165	+ 139	+ 112	+ 176	+ 190	+ 220	+ 193	+ 98	+ 27	+ 55	+ 95	+ 230	+ 205	+ 349	+ 378	Ainsley	4118
E. Webster	601	2	+ 173	+ 184	+ 195	+ 147	+ 20	+ 128	+ 120	+ 153	+ 164	+ 194	+ 194	+ 110	+ 154	+ 161	+ 320	E. Webster	601
Webster	16494	2	+ 381	+ 438	+ 476	+ 319	+ 361	+ 213	+ 229	+ 12	+ 50	+ 05	+ 12	+ 109	+ 171	+ 222	+ 199	Webster	16494
Chronometrical Thermometer	.....	.....	+1735.9	+1833.4	+1906.9	+1411.1	+1223.0	+1026.9	+1172.9	+2288.3	+3124.0	+2914.9	+2900.1	+810.6	+647.7	+737.8	+184.2	Chronometrical Thermometer	.....
Extremes of Temperature as shown by the Self-Registering Thermometers	.....	.....	38-60	30-52	24-36	28-57	45-51	40-55	46-56	05-58	88-100	87-98	84-100	40-56	50-57	49-57	54-63	Extremes of Temperature as shown by the Self-Registering Thermometers	.....

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 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 only in the construction of the balance, the positions of the metals forming the compensating rim being reversed. By this arrangement the effect of temperature is much magnified.

IN THE ORDER OF TIME.

																	NAME or MAKER.	No.
Mar. 27 to Apr. 3	April 3-10	April 10-17	April 17-24	Apr. 24 to May 1	May 1-8	May 8-15	May 15-22	May 22-29	May 29 to June 5	June 5-12	June 12-19	June 19-26	June 26 to July 3	July 3-10	July 10-17	July 17-24		
+ 51	+ 64	+ 81	+ 96	+ 08	+ 03	+ 71	+ 55	+ 76	+ 78	+ 115	+ 117	+ 133	+ 160	+ 150	+ 150	+ 131	Cornell.....	5658
+ 124	+ 126	+ 119	+ 130	+ 110	+ 120	+ 125	+ 135	+ 145	+ 148	+ 170	+ 161	+ 169	+ 174	+ 168	+ 172	+ 177	Kullberg.....	3970
+ 45	+ 43	+ 45	+ 52	+ 48	+ 60	+ 69	+ 51	+ 50	+ 30	+ 57	+ 83	+ 83	+ 91	+ 99	+ 101	+ 114	Matheson and Co.....	3000
+ 35	+ 60	+ 72	+ 61	+ 47	+ 60	+ 64	+ 121	+ 132	+ 143	+ 165	+ 86	+ 118	+ 127	+ 117	+ 132	+ 140	Johnston and Co.....	3797
- 97	- 33	+ 06	+ 12	- 15	+ 00	- 05	- 55	- 28	+ 20	+ 43	+ 17	+ 05	+ 09	+ 19	+ 17	+ 49	Crip.....	4113
- 53	- 98	- 72	- 32	- 63	- 00	- 03	+ 43	+ 87	.....	.....	.....	.....	.....	.....	.....	.....	Reid and Sons	5569
- 09	- 24	+ 05	+ 26	+ 04	+ 10	+ 06	+ 25	+ 38	+ 48	+ 05	+ 03	+ 04	+ 09	+ 17	+ 19	+ 40	Went and Sons	5589
- 41	- 28	+ 30	+ 09	+ 15	+ 20	+ 30	+ 35	+ 25	+ 35	+ 30	+ 69	+ 104	+ 105	+ 104	+ 105	+ 104	Edwards and Sons	3797
- 58	- 110	- 150	- 125	- 120	- 115	- 120	- 120	- 115	- 117	- 158	- 209	- 187	- 209	- 211	- 211	- 211	P. Hirschall.....	1382
+ 102	+ 139	+ 129	+ 130	+ 111	+ 159	+ 170	+ 57	+ 74	+ 89	+ 94	+ 116	+ 96	+ 85	+ 89	+ 83	+ 60	Moore.....	1866
+ 157	+ 173	+ 140	+ 165	+ 140	+ 150	+ 150	+ 186	+ 148	+ 218	+ 225	+ 230	+ 227	+ 228	+ 227	+ 221	+ 221	Sewill.....	3775
+ 08	+ 13	+ 25	+ 29	+ 04	+ 05	+ 20	+ 35	+ 25	+ 35	+ 30	+ 69	+ 104	+ 105	+ 104	+ 105	+ 104	J. Poole and Co.	3792
+ 58	+ 110	+ 150	+ 125	+ 120	- 115	- 120	- 120	- 115	- 117	- 158	- 209	- 187	- 209	- 211	- 211	- 211	Skellern.....	3050
- 45	- 37	- 23	- 04	- 03	- 01	- 05	- 35	- 15	- 20	- 77	- 58	- 81	- 111	- 106	- 124	- 130	Glover.....	382
- 129	- 55	- 49	+ 15	- 09	+ 04	- 06	- 99	- 99	- 48	- 40	+ 25	+ 65	+ 82	+ 83	+ 81	+ 76	Inace.....	1645
- 62	- 38	- 09	+ 00	+ 02	+ 25	+ 30	+ 14	+ 04	+ 35	+ 47	+ 13	- 04	- 11	+ 15	+ 20	+ 20	Keys.....	3791
+ 89	+ 91	+ 101	+ 113	+ 102	+ 113	+ 105	+ 25	+ 05	+ 15	+ 35	+ 110	+ 110	+ 130	+ 129	+ 121	+ 107	Went and Sons	5589
+ 01	+ 17	+ 14	+ 11	+ 29	+ 40	+ 30	+ 45	+ 40	+ 02	+ 23	+ 65	+ 82	+ 65	+ 57	+ 51	+ 41	P. Hirschall.....	1381
+ 110	+ 121	+ 124	+ 146	+ 142	+ 147	+ 167	+ 158	+ 193	+ 220	+ 235	+ 228	+ 205	+ 216	+ 209	+ 199	+ 199	Matheson.....	1864
+ 130	+ 121	+ 110	+ 73	+ 96	+ 100	+ 112	- 32	- 28	+ 03	+ 34	+ 106	+ 85	+ 85	+ 100	+ 94	+ 69	Moore.....	379
+ 105	+ 88	+ 80	+ 120	+ 111	+ 121	+ 142	+ 57	+ 103	+ 131	+ 165	+ 101	+ 204	+ 199	+ 192	+ 197	+ 213	Skellern.....	3054
+ 45	+ 37	+ 23	+ 04	+ 03	+ 01	+ 05	+ 35	+ 15	+ 20	+ 77	+ 58	+ 81	+ 111	+ 106	+ 125	+ 130	Inace.....	1615
+ 125	+ 140	+ 180	+ 170	+ 100	+ 157	+ 158	+ 99	+ 45	+ 105	+ 105	+ 225	+ 235	+ 241	+ 241	+ 241	+ 241	Williams.....	2129
- 25	+ 10	+ 01	+ 59	+ 80	+ 45	+ 38	+ 42	- 12	+ 45	+ 67	+ 111	+ 147	+ 161	+ 159	+ 170	+ 159	Matheson.....	3000
+ 149	+ 166	+ 169	+ 208	+ 191	+ 205	+ 231	+ 107	+ 142	+ 200	+ 232	+ 279	+ 301	+ 312	+ 303	+ 313	+ 305	Shepherd and Son.....	3362
- 198	- 215	- 228	- 198	- 170	- 171	- 204	- 187	- 123	- 133	- 112	- 40	- 34	- 73	- 63	- 63	- 63	Quilliam.....	3016
+ 60	+ 53	+ 33	+ 93	+ 75	+ 69	+ 112	+ 47	+ 23	+ 47	+ 95	+ 145	+ 148	+ 154	+ 149	+ 171	+ 160	Johnston.....	6396
+ 150	+ 153	+ 154	+ 155	+ 169	+ 167	+ 161	+ 19	+ 23	+ 60	+ 105	+ 191	+ 217	+ 205	+ 200	+ 240	+ 240	Johnston and Co.....	3797
- 155	- 157	- 168	- 148	- 148	- 170	- 160	- 30	+ 15	+ 45	+ 73	+ 30	- 22	- 35	- 35	- 44	- 51	Pyott.....	474
- 34	- 34	- 23	- 17	- 33	+ 15	+ 07	+ 113	- 81	- 49	- 35	+ 06	+ 09	+ 15	+ 10	+ 16	+ 11	Matheson.....	3001
+ 85	+ 94	+ 79	+ 25	+ 38	+ 69	+ 69	+ 119	+ 76	- 39	+ 11	+ 11	+ 07	+ 12	+ 23	+ 23	+ 23	Matheson.....	3000
+ 83	+ 54	+ 47	+ 01	+ 53	+ 65	+ 70	+ 65	+ 30	+ 55	+ 90	+ 174	+ 151	+ 124	+ 233	+ 248	+ 240	Riego.....	3577
+ 90	+ 190	+ 227	+ 205	+ 228	+ 246	+ 252	+ 43	+ 90	+ 155	+ 175	+ 240	+ 203	+ 220	+ 232	+ 263	+ 263	Pennington.....	1804
+ 65	+ 86	+ 97	+ 135	+ 125	+ 145	+ 161	- 58	- 43	+ 07	+ 15	+ 106	+ 147	+ 169	+ 184	+ 190	+ 178	Hennery.....	4894
- 48	- 35	- 30	- 24	- 12	+ 01	+ 04	- 940	- 199	- 140	- 123	+ 09	+ 05	+ 04	+ 20	+ 27	+ 83	Leister and Sons	824
- 48	- 03	- 41	- 15	- 12	+ 00	+ 16	- 194	- 160	- 105	- 70	+ 05	+ 16	+ 69	+ 75	+ 95	+ 77	Pennington.....	2134
- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	- 75	Pennington.....	2134
- 122	- 123	- 101	- 134	- 150	- 190	- 180	- 34	- 10	- 54	- 47	+ 148	+ 100	+ 116	+ 127	+ 132	+ 111	Shepherd and Son	1837
+ 65	+ 105	+ 124	+ 104	+ 150	+ 165	+ 181	- 76	- 30	+ 37	+ 78	+ 200	+ 215	+ 230	+ 258	+ 262	+ 250	Reid and Sons	5580
+ 245	+ 405	+ 423	+ 479	+ 456	+ 477	+ 383	+ 477	+ 537	+ 588	+ 614	+ 607	+ 675	+ 695	+ 691	+ 704	+ 700	Ainsley.....	4118
+ 360	+ 395	+ 349	+ 378	+ 366	+ 392	+ 383	+ 90	+ 131	+ 148	+ 134	+ 372	+ 391	+ 394	+ 380	+ 390	+ 412	H. Webster.....	601
+ 110	+ 140	+ 151	+ 130	+ 219	+ 246	+ 280	+ 211	+ 184	+ 285	+ 346	+ 340	+ 395	+ 407	+ 405	+ 450	+ 473	Matheson.....	3480
- 198	- 171	- 223	- 195	- 165	- 146	- 127	- 40	+ 91	+ 78	+ 92	- 23	- 60	- 92	- 63	- 19	- 82	Went and Sons	1694
+ 8106	+ 6477	+ 7578	+ 1042	+ 5178	+ 5410	+ 4185	- 3240	- 3015	- 2460	- 2520	- 1174	- 4086	- 5515	- 3735	- 4004	- 6631	Chronometrical Thermometer.	
40-56	50-57	49-57	54-63	51-60	51-60	53-64	50-103	57-104	50-93	55-99	59-70	64-74	64-76	65-71	71-71	68-74	Reference of Temperature as shown by the Self-Registering Thermometers.	

NAME OF MAKER.	No.	Construction of Escapement and Balance, from the Description furnished by the Maker.	(II.) WEEKLY SUMS OF DAILY RATES											
			May	March	May	March	March	June	May	Feb. 28	July	June 26	July	
			15-22	6-13	22-29	20-27	13-20	5-12	to June 5	to Mar. 6	17-24	to July 3	10-17	
			†	†	†	†	†	†	†	†	†	†	†	
Cornell Kullberg Matheson Johannesen & Co. Aitchison	5658	2	Airy's Compensation.	+ 5.6	- 0.3	+ 7.6	+ 3.5	+ 2.8	+ 11.5	+ 7.8	+ 3.3	+ 13.1	+ 15.0	
	3970	2	Pulldown spring without auxiliary.	+ 13.5	+ 10.6	+ 14.5	+ 14.1	+ 13.9	+ 17.0	+ 14.5	+ 1.7	+ 17.2	+ 17.2	
	3762	2	Auxiliary to balance. Airy's Compensation.	- 3.5	- 5.9	- 3.9	- 2.4	- 3.4	- 0.5	- 1.1	- 9.5	- 3.9	- 3.1	
	2767	2	Continuous auxiliary to balance, acting in both	+ 8.1	+ 0.5	+ 1.0	+ 1.0	+ 1.0	+ 5.7	+ 3.0	+ 0.0	+ 11.4	+ 9.1	
	Aitchison	4113	2	Auxiliary. Airy's Compensation. (extreme).	- 12.1	- 6.1	- 13.2	- 9.2	- 9.9	+ 16.5	+ 14.3	- 9.8	+ 14.9	+ 13.7
Crisp Reid and Sons Williams Edward & Son P. Birchall	4113	2	New balance for high range of temperature.	- 5.5	- 11.1	- 2.8	- 4.9	- 5.5	+ 4.3	+ 9.0	- 4.4	+ 4.9	+ 0.9	
	5569	2	Ordinary balance. [Airy's Compensation.	+ 4.9	- 1.2	+ 3.7	+ 3.2	+ 1.7	.....	.....	+ 2.1	.....	.....	
	2127	2	Auxiliary Compensation.	- 3.5	- 12.5	+ 3.6	- 10.7	- 13.0	- 0.6	- 4.8	- 0.0	+ 0.0	+ 0.9	
	3720	2	Improved ordinary balance.	+ 3.9	+ 2.0	+ 3.3	+ 6.5	+ 5.3	+ 3.7	+ 2.5	+ 1.3	- 4.4	- 6.5	
	P. Birchall	1382	2	Ordinary balance, with slight alteration.	+ 8.3	+ 3.3	+ 8.8	+ 6.1	+ 4.5	+ 7.5	+ 9.4	+ 0.9	- 1.8	- 3.9
Moore Sevill P. Foote & Co. Skellern Glover	1866	2	Ordinary balance. Airy's Compensation.	+ 5.7	+ 1.1	+ 7.4	+ 3.3	+ 5.2	+ 9.4	+ 8.9	+ 3.4	+ 6.0	+ 8.5	
	2775	2	Auxiliary Compensation to balance.	+ 18.6	+ 9.8	+ 14.6	+ 13.9	+ 13.1	+ 22.5	+ 21.8	+ 7.5	+ 22.1	+ 23.7	
	3720	2	Pool's auxiliary. Airy's Compensation.	- 3.5	- 3.0	- 3.5	- 6.8	- 5.9	+ 3.7	+ 3.3	- 1.3	- 4.4	- 4.8	
	3060	2	Auxiliary Compensation.	+ 5.6	- 1.5	- 6.1	- 10.2	- 2.5	+ 15.7	+ 11.8	- 3.1	+ 21.0	+ 18.7	
	Glover	332	2	Auxiliary for heat. Airy's Compensation.	+ 7.9	+ 6.3	+ 10.3	- 10.2	+ 9.8	+ 17.7	+ 13.4	+ 12.9	+ 23.4	+ 21.3
Isaac Reid and Sons Lyster and Son P. Birchall Moore	1643	2	Auxiliary Compensation.	- 9.9	- 14.9	- 9.9	- 13.6	- 14.5	- 4.0	- 4.8	- 7.0	- 7.6	- 8.2	
	267	2	Ordinary balance. Airy's Compensation.	- 14.4	- 6.6	+ 0.4	+ 6.2	+ 6.7	+ 4.7	+ 3.5	+ 5.2	+ 0.5	- 1.1	
	3202	2	Pool's auxiliary.	- 2.5	- 4.3	+ 0.5	- 2.1	- 2.4	+ 3.3	+ 1.5	+ 1.4	+ 10.7	+ 12.0	
	P. Birchall	1866	2	Auxiliary balance without auxiliary.	+ 1.9	- 0.6	- 2.5	- 10.1	- 11.3	+ 8.0	+ 8.7	+ 24.0	+ 21.7	
	Moore	1864	2	Ordinary balance. Airy's Compensation.	+ 18.5	+ 13.0	- 1.3	+ 19.5	+ 15.0	+ 29.5	+ 22.0	+ 16.0	+ 19.6	+ 21.1
Keys Skellern Isaac Williams Shepherd & Son	379	2	Ordinary balance. Airy's Compensation.	- 3.2	- 0.7	+ 2.8	+ 4.9	+ 3.0	+ 3.4	+ 0.3	+ 9.8	+ 6.9	+ 8.5	
	3034	2	Auxiliary Compensation.	+ 5.7	+ 0.3	+ 10.3	+ 12.3	+ 6.9	+ 16.6	+ 13.1	+ 1.4	+ 21.5	+ 16.9	
	1615	2	Auxiliary Compensation to balance.	- 3.9	- 21.0	- 1.5	- 9.1	- 8.1	+ 9.5	+ 9.0	- 24.9	- 19.2	- 37.7	
	2129	2	Auxiliary Compensation.	+ 0.9	+ 0.5	+ 4.6	+ 4.9	+ 2.1	+ 10.5	+ 10.5	+ 0.1	+ 22.9	+ 23.5	
	1836	2	Auxiliary to balance. Airy's Compensation.	- 4.2	- 12.0	- 1.1	- 4.0	- 0.5	+ 6.7	+ 4.5	- 6.0	+ 15.9	+ 16.1	
Sevill Johnson Hannesty Pyott	3362	2	Auxiliary Compensation to balance.	+ 10.7	+ 0.5	+ 14.2	+ 8.7	+ 5.9	+ 22.2	+ 20.0	+ 6.3	+ 30.5	+ 31.3	
	6396	2	Continuous auxiliary balance without friction.	- 4.7	- 0.5	- 2.7	- 8.8	- 11.0	- 13.3	- 12.3	- 10.7	- 11.3	- 10.8	
	497	2	Double auxiliary. Airy's Compensation.	+ 4.0	+ 1.5	+ 4.6	+ 4.4	+ 3.3	+ 9.5	+ 4.7	+ 1.5	+ 16.0	+ 13.4	
	497	2	Ordinary balance.	+ 1.9	- 0.6	- 2.5	- 10.1	- 11.3	+ 8.0	+ 8.7	+ 24.0	+ 21.7	+ 20.0	
	Pyott	476	2	Ordinary balance. Airy's Compensation.	- 3.0	- 1.1	- 1.3	- 1.3	- 1.5	+ 7.5	+ 4.3	- 3.1	- 3.5	- 3.4
Matheson Riego Riego Penington Hannesty	3001	2	Auxiliary to balance. Airy's Compensation.	- 11.3	- 6.9	- 8.1	- 2.9	- 4.2	- 3.5	- 4.9	- 1.3	+ 1.1	+ 1.5	
	3270	2	Auxiliary Compensation to balance.	- 11.9	- 5.2	- 10.4	- 2.3	- 4.5	- 3.9	- 7.6	- 4.8	+ 2.5	+ 1.1	
	1804	2	Auxiliary Compensation to balance.	- 6.5	- 4.3	- 2.7	- 3.1	- 8.1	+ 9.5	+ 9.0	- 24.9	- 19.2	- 37.7	
	Penington	484	2	Auxiliary Compensation.	+ 4.3	+ 2.8	- 9.0	+ 5.5	+ 10.0	+ 17.5	+ 10.5	+ 3.5	+ 28.0	+ 26.0
	Hannesty	1094	2	Ordinary balance. Airy's Compensation.	- 5.8	- 3.2	- 4.3	- 2.0	- 4.0	- 1.5	- 9.7	- 7.9	- 17.8	- 16.9
Lyster & Son Penington & Hutton Quilliam Shepherd & Son Reid & Sons	3824	2	Pool's Auxiliary. Airy's Compensation.	- 24.0	- 19.6	- 19.9	- 15.0	- 16.9	- 12.3	- 14.0	- 7.9	+ 2.3	+ 0.4	
	2124	2	Auxiliary Compensation.	- 19.4	- 2.9	- 16.9	- 2.3	- 1.4	- 7.0	- 10.5	- 2.0	- 7.7	- 9.9	
	3215	2	Auxiliary Compensation to balance.	- 24.0	- 19.6	- 19.9	- 15.0	- 16.9	- 12.3	- 14.0	- 7.9	+ 2.3	+ 0.4	
	1837	2	Auxiliary to balance. Airy's Compensation.	- 24.4	- 19.2	- 10.0	- 20.5	- 23.6	+ 4.7	+ 5.4	- 16.2	- 11.0	+ 13.3	
	Reid & Sons	5580	2	Ordinary balance.	- 7.6	- 10.5	- 3.0	- 5.3	- 6.0	+ 7.8	+ 3.7	+ 7.0	+ 25.5	+ 20.8
Ainsley E. Webster Mann Webster	4118	2	Auxiliary. Airy's Compensation.	+ 4.7	+ 4.7	+ 13.1	+ 4.0	+ 43.5	+ 6.6	+ 5.8	+ 3.8	+ 7.0	+ 9.5	
	601	2	Ordinary balance.	+ 9.0	+ 2.7	+ 13.1	+ 8.5	+ 5.5	+ 31.4	+ 24.9	+ 8.9	+ 41.2	+ 39.8	
	3480	2	Auxiliary. Airy's Compensation.	+ 21.1	+ 10.2	+ 18.1	+ 10.0	+ 15.3	+ 34.6	+ 25.5	+ 12.8	+ 47.3	+ 40.7	
	16494	2	No information.	- 4.0	- 5.0	- 2.1	- 1.2	- 0.5	- 9.2	- 7.6	- 1.3	- 8.2	- 6.9	
	Chronometrical Thermometer. Extremes of Temperature as shown by the Self-Registering Thermometers			-2440.0	-3124.0	-3014.5	-2550.1	-3914.5	-2326.0	-2466.0	-2238.5	-663.1	-551.3	-486.4
.....		.....	90-103.89	-100.87	-104.94	-100.87	-88.85	89.90	89.90	65-98	68-74	64-78	61-71	

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 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 only in the construction of the balance, the positions of the metals forming the compensating rim being reversed. By this arrangement the effect of temperature is much magnified.

IN THE ORDER OF TEMPERATURE, AS DETERMINED GENERALLY BY THE CHRONOMETRICAL THERMOMETER.

NAME OF MAKER.	No.	(I.) TEMPERATURES											
		June	July	June	April	May	April	April	Mar. 27	Feb.	Feb.	Jan. 31	Jan.
		15-25	3-10	12-19	17-24	8-15	to May 1	1-8	3-10	10-17	to April 3	14-21	21-28
Cornell Kullberg Matheson Johannesen & Co. Aitchison	5658	+ 15.3	+ 15.0	+ 11.7	+ 9.6	+ 7.1	+ 6.8	+ 6.5	+ 6.4	+ 8.1	+ 5.1	+ 4.2	+ 4.4
	3970	+ 18.9	+ 16.8	+ 15.1	+ 15.0	+ 12.6	+ 11.0	+ 15.0	+ 12.6	+ 11.9	+ 12.4	+ 7.5	+ 6.8
	3762	+ 22.1	+ 14.7	+ 9.7	+ 13.4	+ 13.0	+ 0.5	+ 0.1	+ 2.0	+ 0.7	+ 0.8	+ 0.0	+ 0.1
	2767	+ 8.3	+ 9.9	+ 8.5	+ 8.2	+ 6.3	+ 4.8	+ 6.0	+ 4.5	+ 4.5	+ 8.5	+ 8.0	+ 7.0
Crisp Reid and Sons Williams Edward & Son P. Birchall	4113	+ 11.5	+ 11.7	+ 8.6	+ 6.1	+ 9.4	+ 4.7	+ 6.0	+ 7.2	+ 3.5	+ 0.0	+ 0.6	+ 0.6
	4113	+ 0.5	+ 1.3	+ 1.7	- 1.2	- 0.5	- 1.5	- 0.0	- 3.3	- 0.6	- 9.7	- 0.3	- 9.0
	2127	- 3.2	- 6.3	- 6.2	- 6.0	- 5.8	- 7.2	- 5.3	- 1.8	- 1.5	- 0.1	- 1.0	- 1.3
	2127	+ 0.4	+ 1.7	+ 0.3	+ 2.6	+ 0.6	+ 0.4	+ 1.0	+ 2.4	+ 0.5	+ 0.9	+ 0.0	+ 0.1
Moore Sevill Skellern Glover	1866	+ 0.6	+ 8.1	+ 8.0	+ 3.9	+ 3.0	+ 0.4	+ 1.3	+ 2.3	+ 0.8	+ 3.4	+ 4.9	+ 4.7
	2775	+ 24.9	+ 22.8	+ 23.0	+ 16.5	+ 10.0	+ 15.0	+ 17.3	+ 14.0	+ 15.7	+ 2.0	+ 0.5	+ 3.1
	3060	+ 20.9	+ 20.9	+ 19.8	+ 12.5	+ 12.0	+ 11.5	+ 11.0	+ 13.0	+ 9.8	+ 6.8	+ 4.8	+ 0.1
	332	+ 20.1	+ 22.1	+ 19.8	+ 13.3	+ 18.6	+ 15.2	+ 17.5	+ 4.6	+ 8.9	+ 5.8	+ 10.1	+ 15.0
Isaac Reid and Sons Lyster and Son P. Birchall Moore	1866	+ 6.3	+ 8.3	+ 3.5	+ 1.5	- 0.6	- 0.9	- 0.4	- 5.5	- 4.9	- 13.9	- 14.0	- 15.5
	3034	- 0.4	- 1.3	- 11.3	- 0.0	- 3.0	- 0.2	- 0.3	- 0.8	- 6.3	- 1.1	- 9.8	- 3.2
	1615	+ 11.0	+ 12.9	+ 11.0	+ 11.3	+ 10.5	+ 10.2	+ 11.3	+ 9.1	+ 10.1	+ 8.9	+ 6.0	+ 5.0
	1836	+ 20.6	+ 20.9	+ 19.5	+ 14.6	+ 14.7	+ 14.2	+ 14.7	+ 12.1	+ 14.2	+ 11.0	+ 7.4	+ 7.0
Keys Skellern Williams Shepherd & Son	379	+ 8.8	+ 10.9	+ 10.6	+ 7.3	+ 11.3	+ 9.6	+ 10.0	+ 12.1	+ 11.0	+ 13.0	- 2.0	- 0.4
	3034	+ 30.4	+ 19.2	+ 21.0	+ 12.0	+ 14.3	+ 11.1	+ 12.0	+ 8.8	+ 8.0	+ 10.5	+ 7.2	+ 5.3
	1615	+ 9.1	+ 11.3	+ 11.3	+ 10.1	+ 10.1	+ 10.1	+ 10.1	+ 4.5	+ 0.5	+ 0.0	+ 0.5	+ 0.0
	1836	+ 22.5	+ 24.1	+ 20.5	+ 17.0	+ 13.8	+ 10.0	+ 15.7	+ 14.0	+ 13.0	+ 12.5	+ 11.1	+ 11.1
Sevill Johnson Hannesty Pyott	3362	+ 14.7	+ 15.9	+ 11.1	+ 5.9	+ 3.8	+ 3.0	+ 4.5	+ 1.0	+ 0.1	- 2.5	- 8.9	- 11.8
	6396	+ 30.1	+ 30.3	+ 27.9	+ 20.8	+ 23.1	+ 19.1	+ 20.5	+ 16.6	+ 19.9	+ 14.9	+ 3.4	+ 3.8
	497	+ 14.8	+ 14.9	+ 14.5	+ 9.3	+ 11.3	+ 7.5	+ 9.9	+ 5.3	+ 5.3	+ 6.0	- 0.8	- 6.0
	497	+ 12.7	+ 20.5	+ 19.1	+ 12.5	+ 16.1	+ 16.9	+ 16.7	+ 16.5	+ 15.0	+ 13.8	+ 13.7	+ 10.7
Matheson Riego Riego Penington Hannesty	3001	- 2.3	- 2.3	- 1.2	- 14.2	- 16.0	- 17.0	- 17.7	+ 14.8	- 15.5	- 11.3	+ 12.9	- 1.8
	379	+ 0.9	+ 1.0	+ 0.6	- 1.7	- 0.7	- 3.3	- 1.5	- 3.4	- 2.3	- 3.4	- 0.9	- 11.1
	3270	+ 1.1	+ 0.7	- 1.0	- 1.7	- 0.9	- 3.8	- 6.2	+ 6.4	+ 7.9	+ 8.5	+ 12.4	+ 10.4
	1804	+ 15.1	+ 23.2	+ 17.4	- 0.1	- 7.0	- 8.3	- 2.8	- 2.4	- 2.8	- 1.8	- 0.5	- 1.8
Lyster & Son Penington & Hutton Quilliam Shepherd & Son Reid & Sons	3824	+ 20.5	+ 25.2	+ 24.0	+ 20.5	+ 25.3	+ 22.8	+ 24.3	+ 19.0	+ 22.7	- 9.0	+ 17.6	+ 18.3
	2124	+ 14.7	+ 16.4	+ 10.6	+ 15.5	+ 15.1	+ 12.5	+ 14.3	+ 8.6	+ 9.7	+ 6.5	+ 5.0	+ 3.8
	3215	- 0.5	+ 2.0	+ 0.9	- 2.4	- 0.4	- 1.2	+ 0.1	- 2.5	- 3.0	- 4.0	- 3.3	- 4.7
	5580	+ 1.4	+ 7.3	+ 0.5	+ 1.5	+ 1.6	- 1.2	- 0.0	- 0.3	- 4.1	- 4.8	- 12.0	- 14.4
Ainsley E. Webster Mann Webster	4118	+ 3.3	+ 7.6	+ 3.5	+ 4.0	+ 1.6	- 5.0	- 1.1	- 6.0	- 8.4	- 8.5	- 15.9	- 17.3
	601	+ 15.0	+ 23.2	+ 17.4	- 0.1	- 7.0	- 8.3	- 2.8	- 2.4	- 2.8	- 1.8	- 0.5	- 1.8
	3480	+ 21.5	+ 25.6	+ 20.0	+ 16.4	+ 18.1	+ 15.0	+ 16.5	+ 10.5	+ 12.4	+ 6.5	- 0.8	- 0.9
	16494	+ 0.7	+ 0.9	+ 1.0	+ 0.7	+ 0.9	+ 0.7	+ 0.9	+ 0.9	+ 0.9	+ 0.9	+ 0.9	+ 0.9
Chronometrical Thermometer. Extremes of Temperature as shown by the Self-Registering Thermometers .....	.....	-408.0	-373.5	-117.4	-184.2	+413.3	+517.8	+541.0	+647.7	+737.8	-810.6	-1068.9	+1173.6
	.....	64-74	63-71	59-70	54-63	53-64	51-60	51-60	50-57	49-57	48-56	46-58	46-58

The Chronometers are placed in order of merit, their respective positions being determined by consideration of the irregularities of rate exhibited in Table III.

Crisp 4113. The main spring of this Chronometer was found broken in the fourth week of the trial. The Chronometer was removed by the maker on February 6, and deposited again on February 9. Its position in the list, having been determined without reference to the duration of the trial, is not necessarily correct.

Reid and Sons 5580. The main spring of this Chronometer was found broken in the twenty-first week of the trial, and the Chronometer was removed by the maker on June 9.

NAME OF MAKER.	No.	ADDRESS OF MAKER.	Construction of Escapement and Balance, from the Description furnished by the Maker.	(III).—ABSTRACT OF THE			
				First Day of Rating.	Last Day of Rating.	Least Weekly Sum.	
Cornell.....	5688	2 74, Bank Street, Maidstone.	Airy's Compensation.	January 10	July 24	28	- 3
Kullberg.....	2970	2 165, Liverpool Road, E.C.	Pullibus spring, without auxiliary.	January 10	July 24	28	+ 2.8
Matheson.....	3001	2 Shore, Leith.	Auxiliary to balance. Airy's Compensation.	January 10	July 24	28	-10.0
Johnston and Co.....	2797	2 149, Minster, E.	Continuous auxiliary to balance, acting in both	January 10	July 24	28	0.0
Aitchison.....	2976	2 15, Bank Street, Edinburgh.	Auxiliary. Airy's Compensation. (extremes.	January 10	July 24	28	+ 3.8
Crisp.....	4113	2 174, St. John's Street Road, E.C.	New balance for high range of temperature.	February 14	July 24	28	-11.1
Reid and Sons.....	5569	2 41, Grey Street, Newcastle-on-Tyne.	Ordinary balance. (Airy's Compensation.	January 10	May 20	28	- 7.2
Williams.....	2127	2 3, Bond Docks, Cardiff.	Auxiliary Compensation.	January 10	July 24	28	0.0
Edward and Sons.....	3720	2 1, Poultry, E.C.	Improved ordinary balance.	January 10	July 24	28	- 8.7
P. Birchall.....	1382	2 12A, Stenfield Street, Islington, N.	Ordinary balance, with slight alteration.	January 10	July 24	28	- 5.9
Moore.....	1866	2 105, High Street, Belfast.	Ordinary balance. Airy's Compensation.	January 10	July 24	28	+ 0.7
Seewill.....	2775	2 61, South Castle Street, Liverpool.	Auxiliary Compensation to balance.	January 10	July 24	28	- 0.8
J. Poole and Co.....	5750	2 31, Spencer Street, Clerkenwell, E.C.	Poole's auxiliary. Airy's Compensation.	January 10	July 24	28	-14.5
Stellorn.....	3000	2 3, South John Street, Liverpool.	Auxiliary Compensation.	January 10	July 24	28	- 3.1
Glover.....	332	2 8, Wreatham Road, Camden New Town, N.W.	Auxiliary for beat. Airy's Compensation.	January 10	July 24	28	+ 4.6
Isaac.....	1645	2 10, Spencer Street, E.C.	Auxiliary Compensation.	January 10	July 24	28	-15.5
Keys.....	297	2 15, Craven Street, Strand, W.C.	Ordinary balance. Airy's Compensation.	January 10	July 24	28	- 6.3
Lester and Sons.....	825	2 19, Mosley Street, Newcastle-on-Tyne.	Poole's auxiliary.	January 10	July 24	28	- 4.3
P. Birchall.....	1381	2 12A, Stenfield Street, Islington, N.	Ordinary balance, without auxiliary.	January 10	July 24	28	-20.3
Moore.....	1864	2 105, High Street, Belfast.	Ordinary balance. Airy's Compensation.	January 10	July 24	28	1.2
Keys.....	379	2 15, Craven Street, Strand, W.C.	Ordinary balance. Airy's Compensation.	January 10	July 24	28	- 3.2
Stellorn.....	3054	2 57, South John Street, Liverpool.	Auxiliary Compensation.	January 10	July 24	28	- 8.2
Isaac.....	1615	2 10, Spencer Street, E.C.	Auxiliary Compensation.	January 10	July 24	28	-12.8
Williams.....	2129	2 3, Bond Docks, Cardiff.	Auxiliary Compensation.	January 10	July 24	28	- 2.8
Shepherd and Son.....	1535	2 5A, Leadenhall Street, E.C.	Auxiliary to balance. Airy's Compensation.	January 10	July 24	28	-23.2
Seewill.....	3362	2 61, South Castle Street, Liverpool.	Auxiliary Compensation to balance.	January 10	July 24	28	+ 0.5
Quilliam.....	3016	2 10, Whitechapel, Liverpool.	Continuous auxiliary balance without friction.	January 10	July 24	28	- 8.8
Johnson.....	3262	2 70A, Windington Square, W.C.	Poole's auxiliary. Airy's Compensation.	January 10	July 24	28	- 9.8
Hemmeny.....	4897	2 5, Wind Street, Swansea.	Ordinary balance.	January 10	July 24	28	- 6.6
Pyott.....	474	2 74, West India Dock Road, E.	Ordinary balance. Airy's Compensation.	January 10	July 24	28	-17.0
Matheson.....	3001	2 Shore, Leith.	Auxiliary to balance. Airy's Compensation.	January 10	July 24	28	-11.3
Riego.....	3570	2 284, Regent Street, W.	Auxiliary Compensation to balance.	January 10	July 24	28	-11.9
Riego.....	3577	2 284, Regent Street, W.	Auxiliary Compensation to balance.	January 10	July 24	28	-13.6
Penlington.....	1804	2 25, St. George's Crescent, Liverpool.	Ordinary balance.	January 10	July 24	28	- 2.8
Hemmeny.....	4894	2 5, Wind Street, Swansea.	Ordinary balance. Airy's Compensation.	January 10	July 24	28	-10.0
Lester and Sons.....	824	2 12, Mosley Street, Newcastle-on-Tyne.	Poole's auxiliary. Airy's Compensation.	January 10	July 24	28	-24.0
Penlington & Hutton.....	2124	2 35, St. George's Crescent, Liverpool.	Auxiliary Compensation.	January 10	July 24	28	-20.5
Quilliam.....	3015	2 10, Whitechapel, Liverpool.	Ordinary balance.	January 10	July 24	28	-26.4
Shepherd and Son.....	1535	2 5A, Leadenhall Street, E.C.	Auxiliary to balance. Airy's Compensation.	January 10	July 24	28	-20.2
Reid and Sons.....	5580	2 41, Grey Street, Newcastle-on-Tyne.	Ordinary balance.	January 10	July 24	28	-10.2
Ainsley.....	4118	2 86, Rute Street, Cardiff.	Auxiliary. Airy's Compensation.	January 10	July 24	28	+ 4.7
R. Webster.....	601	2 119, Rell Road, Stoke Newington, N.	Ordinary balance.	January 10	July 24	28	+ 2.7
Mann.....	1480	2 The Cross, Gloucester.	Auxiliary. Airy's Compensation.	January 10	July 24	28	-10.5
R. Webster.....	16494	2 5, Queen Victoria Street, E.C.	No information.	January 10	July 24	28	-47.6

The sign + indicates that the rate is gaining.

† During these weeks the Chronometer was placed in the chamber of a stove heated by jets of gas. The gas flames are exterior to the chamber, into which none of the injurious products of combustion can enter. In the column "Before and after what day" the positions of the symbol (†), before or after the date, indicate respectively exposure to heat in the week immediately preceding, or in the week immediately following.

PRINCIPAL CHANGES OF RATE.

In what Week.	Greatest Weekly Sum.	In what Week.	Difference between the Greatest and Least.	Greatest Difference between one Week and the next.	Before and after what Day.	NAME OF MAKER.	No.
March 10 to 12†	+ 16.0	June 26 to July 3	16.3	3.7	† June 2†	Cornell.....	5688
January 24 to 31	+ 17.7	July 17 to 24	14.4	4.4	Feb. 28†	Kullberg.....	2970
January 21 to Feb. 7	+ 17.0	July 17 to 24	14.9	4.0	April 15†	Matheson.....	3001
February 28 to Mar. 6†	+ 11.4	July 17 to 24	11.4	8.0	Feb. 28†	Johnston and Co.....	2797
March 27 to April 3	+ 16.5	June 5 to 12†	13.0	7.9	† June 12	Aitchison.....	2976
March 6 to 13†	+ 4.9	July 17 to 24	16.0	6.7	April 3	Crisp.....	4113
April 10 to 17	+ 5.0 to 29.9	May 22 to 29†	15.0	10.0	March 15†	Reid and Sons.....	5569
March 13 to 20†	+ 2.8	January 24 to 31	15.8	9.0	March 27	Williams.....	2127
January 10 to 17	+ 6.5	March 20 to 27†	15.2	10.5	March 27	Edward and Sons.....	3720
January 10 to 17	+ 8.5	May 22 to 29†	14.7	10.9	† June 12	P. Birchall.....	1382
January 24 to 31	+ 17.0	May 8 to 15	16.3	11.2	May 15†	Moore.....	1866
February 21 to 28	+ 24.5	May 19 to 26	25.0	7.7	Feb. 28†	Seewill.....	2775
January 24 to 31	+ 10.6	July 17 to 24	25.1	8.2	Jan. 31	J. Poole and Co.....	5750
February 28 to Mar. 6†	+ 23.1	July 10 to 17	29.2	7.9	Feb. 28†	Stellorn.....	3000
April 3 to 10	+ 20.4	July 17 to 24	20.8	10.7	May 15†	Glover.....	332
February 7 to 14	+ 8.3	July 3 to 10	28.8	9.3	May 15†	Isaac.....	1645
March 27 to April 3	+ 12.3	January 10 to 17	18.5	12.4	† March 27	Keys.....	297
March 6 to 13†	+ 13.0	June 26 to July 3	17.2	13.0	May 15†	Lester and Sons.....	825
January 10 to 17	+ 8.5	June 19 to 26	28.6	7.5	May 15†	P. Birchall.....	1381
January 10 to 17	+ 25.5	June 5 to 12†	26.7	9.0	Feb. 28†	Moore.....	1864
May 15 to 22†	+ 13.0	March 27 to April 3	16.2	14.4	May 15†	Keys.....	379
January 10 to 17	+ 21.3	July 17 to 24	29.5	8.5	May 15†	Stellorn.....	3054
March 20 to 27†	+ 19.0	July 17 to 24	25.8	11.0	† March 6†	Isaac.....	1615
January 24 to 31	+ 24.4	July 10 to 17	27.3	12.9	May 15†	Williams.....	2129
January 24 to 31	+ 17.0	July 10 to 17	29.2	8.0	May 15†	Shepherd and Son.....	1535
March 6 to 13†	+ 31.1	July 10 to 17	30.8	12.4	May 15†	Seewill.....	3362
April 3 to 10	+ 3.4	June 26 to July 3	34.9	11.1	May 15†	Quilliam.....	3016
January 24 to 31	+ 17.0	July 10 to 17	26.9	15.9	May 15†	Johnson.....	3262
March 6 to 13†	+ 24.0	July 17 to 24	30.6	14.2	May 15†	Hemmeny.....	4897
April 24 to May 1	+ 9.0	January 17 to 24	35.0	16.8	† March 27	Pyott.....	474
May 15 to 22†	+ 17.0	January 14 to 21	29.2	16.9	Jan. 31	Matheson.....	3001
May 15 to 22†	+ 14.0	January 21 to 28	25.9	18.8	May 15†	Riego.....	3570
January 10 to 17	+ 24.8	July 10 to 17	38.4	13.5	May 15†	Riego.....	3577
March 6 to 13†	+ 28.0	July 10 to 17	28.2	15.9	May 15†	Penlington.....	1804
January 10 to 17	+ 18.0	July 10 to 17	28.0	20.0	May 15†	Hemmeny.....	4894
May 15 to 22†	+ 2.7	July 10 to 17	36.7	24.4	May 15†	Lester and Sons.....	824
January 17 to 24	+ 9.5	January 10 to 17	32.9	23.0	May 15†	Penlington & Hutton.....	2124
January 17 to 24	+ 7.7	June 26 to July 3	34.1	22.9	May 15†	Quilliam.....	3015
March 6 to 13†	+ 26.2	July 17 to 24	31.4	18.7	May 15†	Shepherd and Son.....	1535
March 6 to 13†	+ 2.2	July 10 to 17	36.7	25.9	May 15†	Reid and Sons.....	5580
January 24 to 31	+ 70.4	July 10 to 17	65.7	14.5	Feb. 28†	Ainsley.....	4118
March 6 to 13†	+ 41.2	July 17 to 24	58.6	16.0	Feb. 28†	R. Webster.....	601
January 24 to 31	+ 47.8	July 17 to 24	62.8	17.9	April 17	Mann.....	1480
January 24 to 31	+ 9.6	June 26 to July 3	57.3	24.1	Feb. 28†	R. Webster.....	16494

The Chronometers are placed in order of merit, their respective positions being determined by consideration of irregularities of rate exhibited in the Table above.

Crisp 4113. The main spring of this chronometer was found broken in the fourth week of the trial. It was removed by the maker on February 6, and deposited again on February 9. Its position in the list, having been determined without reference to the duration of the trial, is not necessarily correct.

Reid and Sons 5569. The main spring of this Chronometer was found broken in the twenty-first week of the trial, and was removed by the maker on June 9. Its position in the list, having been determined without reference to the duration of the trial, is not necessarily correct.