

RATES OF CHRONOMETERS
ON TRIAL
FOR PURCHASE BY THE BOARD OF ADMIRALTY,
AT THE
ROYAL OBSERVATORY, GREENWICH.
1875.

RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY.

NAME OF MAKER.	No.	Whether as a Duplicate	Construction of Escapement and Balance, from the Description furnished by the Maker.	(L) WEEKLY SUMS OF DAILY RATES											
				Jan. 9-16	Jan. 16-23	Jan. 23-30	Jan. 30-30 to Feb.	Feb. 6-13	Feb. 13-20	Feb. 20-27	Feb. 27-30 to Mar.	March 6-13	March 13-20	March 20-27	March 27-30
Highley.....	5435	1	Auxiliary setting in cold.	+ 57	+ 80	+ 60	+ 51	+ 58	+ 45	+ 61	+ 55	+ 55	+ 55	+ 55	+ 55
Carter.....	1081	2	Ordinary construction as in former years.	+ 54	+ 57	+ 54	+ 58	+ 45	+ 71	+ 45	+ 68	+ 55	+ 58	+ 51	+ 51
Brotherton.....	5417	1	Ordinary construction, with slight alteration, as in former years.	+ 54	+ 57	+ 54	+ 58	+ 45	+ 71	+ 45	+ 68	+ 55	+ 58	+ 51	+ 51
M. F. Dent.....	24468	2	Auxiliary compensation to balance. [In late years.]	+ 140	+ 147	+ 145	+ 142	+ 140	+ 81	+ 110	+ 116	+ 83	+ 100	+ 160	+ 160
			Auxiliary compensation to balance.	+ 87	+ 78	+ 90	+ 100	+ 120	+ 110	+ 132	+ 132	+ 141	+ 140	+ 140	+ 140
Isaac.....	1125	2	Three arm balance, no auxiliary.	+ 80	+ 84	+ 96	+ 95	+ 120	+ 130	+ 132	+ 132	+ 141	+ 140	+ 140	+ 140
Reid and Sons.....	2465	2	A safe auxiliary compensation to balance.	+ 108	+ 123	+ 97	+ 100	+ 70	+ 75	+ 60	+ 72	+ 69	+ 64	+ 129	+ 129
Lovry.....	368	2	A safe auxiliary compensation to balance.	+ 108	+ 123	+ 97	+ 100	+ 70	+ 75	+ 60	+ 72	+ 69	+ 64	+ 129	+ 129
Crisp.....	2552	2	Harems balance.	+ 80	+ 84	+ 96	+ 95	+ 120	+ 130	+ 132	+ 132	+ 141	+ 140	+ 140	+ 140
Isaac.....	542	2	Balance of independent figure.	+ 15	+ 24	+ 30	+ 31	+ 46	+ 44	+ 55	+ 73	+ 42	+ 40	+ 40	+ 40
Isaac.....	1172	2	Ordinary construction with slight addition.	+ 194	+ 203	+ 197	+ 203	+ 187	+ 208	+ 201	+ 222	+ 229	+ 209	+ 175	+ 175
Lovry.....	1708	2	A safe auxiliary compensation to balance.	+ 83	+ 98	+ 61	+ 64	+ 100	+ 100	+ 20	+ 25	+ 60	+ 95	+ 95	+ 95
McGregor and Co.....	3373	2	Ordinary balance with slight alteration.	+ 16	+ 12	+ 49	+ 40	+ 90	+ 50	+ 110	+ 100	+ 83	+ 74	+ 141	+ 141
Perkins and Prosser.....	4113	2	Ordinary balance with slight alteration.	+ 19	+ 20	+ 81	+ 81	+ 88	+ 85	+ 99	+ 73	+ 68	+ 84	+ 84	+ 84
			Auxiliary compensation.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
			Two auxiliaries to ordinary compound rim balance, one acting in cold, the other in heat.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Hemmes.....	4900	2	Auxiliary compensation.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Williams.....	127	2	Auxiliary compensation to balance.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Pennington.....	2136	2	Auxiliary compensation, (pendulum) to balance.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Seville.....	368	2	Ordinary escapement, with auxiliary setting in cold.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Seville.....	4056	2	Ordinary escapement with auxiliary to balance.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Gabriel.....	1708	2	Auxiliary compensation.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Hadden & Lammner.....	1758	2	Pool's auxiliary.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Gowland.....	1330	2	Ordinary balance with slight alteration.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Glover.....	397	2	Auxiliary compensation as in 1872.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Pennington & Hutson.....	2137	2	Auxiliary compensation.	+ 83	+ 10	+ 40	+ 35	+ 90	+ 94	+ 71	+ 63	+ 95	+ 84	+ 90	+ 90
Campbell.....	1047	2	Ordinary balance with slight alteration.	+ 181	+ 180	+ 160	+ 190	+ 140	+ 235	+ 198	+ 173	+ 209	+ 222	+ 305	+ 305
Keyes.....	371	2	Ordinary balance with slight alteration.	+ 73	+ 105	+ 120	+ 106	+ 59	+ 97	+ 103	+ 85	+ 76	+ 76	+ 108	+ 108
Fletcher.....	3272	2	Auxiliary compensation.	+ 73	+ 105	+ 120	+ 106	+ 59	+ 97	+ 103	+ 85	+ 76	+ 76	+ 108	+ 108
Donner.....	4072	2	Ordinary escapement with auxiliary to balance.	+ 73	+ 105	+ 120	+ 106	+ 59	+ 97	+ 103	+ 85	+ 76	+ 76	+ 108	+ 108
Shepherd.....	1804	2	Auxiliary to balance.	+ 73	+ 105	+ 120	+ 106	+ 59	+ 97	+ 103	+ 85	+ 76	+ 76	+ 108	+ 108
McGregor.....	3	2	Auxiliary compensation.	+ 192	+ 171	+ 178	+ 206	+ 305	+ 310	+ 370	+ 410	+ 318	+ 368	+ 238	+ 238
S. Quilliam & Son.....	20073	2	Continuous auxiliary to compensation to balance.	+ 83	+ 90	+ 47	+ 14	+ 29	+ 65	+ 55	+ 50	+ 49	+ 205	+ 205	+ 205
Hadden & Lammner.....	1758	2	Pool's auxiliary.	+ 83	+ 90	+ 47	+ 14	+ 29	+ 65	+ 55	+ 50	+ 49	+ 205	+ 205	+ 205
Prytt.....	385	2	Ordinary balance with slight alteration.	+ 159	+ 201	+ 171	+ 105	+ 58	+ 107	+ 90	+ 100	+ 115	+ 131	+ 204	+ 204
Shepherd.....	1805	2	Auxiliary to balance.	+ 159	+ 201	+ 171	+ 105	+ 58	+ 107	+ 90	+ 100	+ 115	+ 131	+ 204	+ 204
C. J. S. Ellis.....	541	2	Balance of independent figure.	+ 100	+ 129	+ 129	+ 229	+ 230	+ 210	+ 240	+ 205	+ 210	+ 250	+ 250	+ 250
Gowland.....	2294	2	Auxiliary compensation.	+ 84	+ 80	+ 23	+ 39	+ 14	+ 32	+ 100	+ 90	+ 93	+ 110	+ 128	+ 128
Isaac.....	1081	2	Application to the pendulum spring.	+ 7	+ 10	+ 27	+ 48	+ 105	+ 105	+ 103	+ 112	+ 125	+ 150	+ 180	+ 180
Dell.....	10568	2	Auxiliary compensation.	+ 69	+ 72	+ 133	+ 165	+ 225	+ 220	+ 300	+ 321	+ 191	+ 268	+ 258	+ 258
Williams.....	1849	2	Pool's auxiliary.	+ 69	+ 72	+ 133	+ 165	+ 225	+ 220	+ 300	+ 321	+ 191	+ 268	+ 258	+ 258
Seville.....	3840	2	Auxiliary compensation to balance.	+ 96	+ 92	+ 40	+ 06	+ 01	+ 01	+ 51	+ 52	+ 48	+ 05	+ 170	+ 170
Hannemeyer.....	1750	2	Pool's auxiliary. (pendulum) of the balance.	+ 96	+ 92	+ 40	+ 06	+ 01	+ 01	+ 51	+ 52	+ 48	+ 05	+ 170	+ 170
			Ordinary escapement, with auxiliary setting in cold.	+ 207	+ 145	+ 238	+ 176	+ 110	+ 98	+ 124	+ 100	+ 110	+ 104	+ 104	+ 104
			Auxiliary to balance. (temperature).	+ 97	+ 100	+ 63	+ 46	+ 103	+ 185	+ 310	+ 268	+ 155	+ 115	+ 143	+ 143
			Auxiliary to the compensation acting at low	+ 40	+ 100	+ 139	+ 166	+ 141	+ 124	+ 155	+ 115	+ 143	+ 143	+ 143	+ 143
B. & G. Quilliam.....	20074	2	Continuous auxiliary to compensation to balance.	+ 380	+ 420	+ 430	+ 440	+ 445	+ 471	+ 445	+ 455	+ 465	+ 467	+ 720	+ 720
Hannemeyer.....	1380	2	Balance spring, with aux. to the com., setting	+ 17	+ 50	+ 92	+ 100	+ 100	+ 88	+ 58	+ 70	+ 505	+ 505	+ 685	+ 685
C. J. S. Ellis.....	100	2	Balance of independent figure. [at low temp.]	+ 204	+ 211	+ 285	+ 258	+ 272	+ 300	+ 320	+ 320	+ 340	+ 340	+ 340	+ 340
W. J. Dent.....	24468	2	Double auxiliary compensation.	+ 216	+ 210	+ 288	+ 280	+ 272	+ 300	+ 320	+ 320	+ 340	+ 340	+ 340	+ 340

Chronometrical Thermometer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Extremes of Temperature and shown by the Self-Regulating Thermometers.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

The sign + indicates that the rate is gaining.
 † During those 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 jewels forming the compensating rim being reversed. By this arrangement the effect of temperature is much magnified.

AT THE ROYAL OBSERVATORY, GREENWICH, 1875.

IN THE ORDER OF TIME.															NAME OF MAKER.	No.			
Mar 27 to April 1	April 8-10	April 10-17	April 17-24	April 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	July 24-31		
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
+ 56	+ 55	+ 88	+ 57	+ 45	+ 48	+ 32	+ 42	+ 38	+ 70	+ 61	+ 44	+ 87	+ 88	+ 65	+ 67	+ 63	+ 04	Highley.....	5435
- 21	- 25	- 21	- 07	- 03	+ 15	+ 10	+ 09	+ 06	+ 13	+ 19	+ 13	- 01	- 01	+ 20	+ 10	+ 16	+ 16	Carter.....	1081
- 10	- 06	+ 77	+ 75	+ 18	+ 26	+ 25	+ 37	+ 25	+ 46	+ 24	+ 14	+ 38	+ 38	+ 20	+ 10	+ 16	+ 16	Brotherton.....	5417
- 12	- 13	- 12	- 07	- 03	+ 15	+ 10	+ 09	+ 06	+ 13	+ 19	+ 13	- 01	- 01	+ 20	+ 10	+ 16	+ 16	M. F. Dent.....	24468
+ 63	+ 52	+ 128	+ 102	+ 88	+ 99	+ 115	+ 100	+ 120	- 91	- 94	- 63	- 58	- 57	- 68	- 82	- 85	- 72	Hemmes.....	4588
									- 90	- 91	- 60	- 58	- 60	- 82	- 128	+ 110	+ 100	M. F. Dent.....	24468
+ 169	+ 170	+ 170	+ 166	+ 144	+ 160	+ 144	+ 142	+ 149	+ 160	+ 150	+ 178	- 129	- 100	+ 204	- 191	+ 175	+ 167	Isaac.....	1125
- 141	- 125	- 64	- 61	- 53	- 20	- 24	- 26	- 25	- 18	- 17	- 47	- 18	- 18	+ 110	+ 80	+ 80	+ 80	Reid and Sons.....	2465
+ 21	+ 20	+ 80	+ 55	+ 59	- 47	- 43	- 25	- 30	- 13	- 13	- 35	- 13	- 13	+ 110	+ 80	+ 80	+ 80	Lovry.....	368
- 46	- 38	+ 81	+ 76	+ 107	- 83	- 95	- 100	- 66	- 30	- 12	- 78	- 110	- 115	- 118	- 42	- 75	- 65	Crisp.....	2552
- 50	- 55	- 90	- 15	- 3	- 06	- 36	- 06	- 15	- 15	- 12	- 7	- 63	- 80	- 109	- 52	- 71	- 70	Isaac.....	542
- 180	- 171	- 198	- 224	- 204	- 181	- 198	- 190	- 195	- 151	- 100	- 97	- 97	- 96	- 92	- 84	- 53	- 49	Isaac.....	1172
- 10	+ 1	+ 44	+ 05	+ 03	+ 03	+ 24	+ 20	+ 23	- 13	+ 13	+ 10	+ 10	- 168	- 110	+ 110	+ 90	+ 96	Lovry.....	1708
+ 150	+ 165	+ 100	+ 90	+ 86	+ 87	+ 63	+ 83	+ 75	+ 84	+ 113	+ 176	- 180	- 168	- 110	+ 110	+ 90	+ 96	McGregor and Co.....	3373
+ 05	+ 05	+ 97	+ 77	+ 68	+ 77	+ 68	+ 77	+ 68	+ 77	+ 68	+ 77	+ 68	+ 77	+ 68	+ 77	+ 68	+ 77	Perkins and Prosser.....	4113
- 09	- 01	+ 90	+ 66	+ 64	+ 58	+ 80	+ 83	+ 69	+ 108	+ 79	+ 72	- 66	- 75	- 99	- 103	- 111	- 111		3715
																		Business & Prosser.....	4113
- 179	- 180	- 96	+ 100	+ 90	- 78	- 80	- 72	- 70	- 55	- 60	- 93	- 116	- 127	- 145	- 80	- 75	- 85	Hemmes.....	4900
- 39	- 41	+ 84	+ 11	+ 01	+ 01	+ 11	+ 11	+ 03	+ 05	+ 06	+ 04	+ 03	- 17	- 23	- 10	- 10	- 10	Williams.....	127
- 81	- 38	- 35	- 49	- 49	- 16	+ 10	+ 09	+ 15	+ 34	+ 75	+ 105	+ 125	+ 153	+ 53	+ 45	+ 42	+ 42	Pennington.....	2136
- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	- 04	Seville.....	368
- 245	- 238	- 160	- 189	- 167	- 146	- 136	- 136	- 128	- 117	- 163	- 160	- 130	- 130	- 113	- 113	- 120	- 120	Davidson.....	3642
																			4056
+ 70	+ 85	+ 130	+ 145	+ 150	+ 153	+ 138	+ 154	+ 160	+ 170	+ 160	+ 155	+ 105	+ 93	+ 78	+ 172	+ 185	+ 160	Gabriel.....	1708
+ 253	+ 276	+ 410	+ 416	+ 423	+ 449	+ 349	+ 395	+ 404	+ 401	+ 380	+ 339	+ 331	+ 383	+ 395	+ 447	+ 433	+ 421	Hadden & Lammner.....	1758
+ 298	+ 282	+ 56	+ 115	+ 122	+ 128	+ 140	+ 151	+ 159	+ 169	+ 180	+ 180	+ 180	+ 180	+ 180	+ 180	+ 180	+ 180	Gowland.....	1330
+ 161	+ 168	+ 167	+ 165	+ 105	+ 117	+ 89	+ 85	+ 35	+ 31	+ 39	+ 110	+ 110	+ 110	+ 110	+ 110	+ 110	+ 110	Glover.....	397
+ 158	+ 125	+ 105	+ 154	+ 155	+ 163	+ 153	+ 178	+ 183	+ 218	+ 213	+ 214	+ 229	+ 243	+ 251	+ 192	+ 215	+ 228	Pennington & Hutson.....	2137
- 286	- 394	- 361	- 360	- 355	- 340	- 348	- 345	- 305	- 310	- 345	- 345	- 330	- 327	- 345	- 350	- 350	- 340	Campbell.....	1047
- 214	- 222	+ 74	+ 89	+ 116	+ 127	+ 127	+ 104	+ 106	+ 173	+ 204	+ 202	+ 205	+ 204	+ 170	+ 165	+ 183	+ 183	Keyes.....	371
- 217	- 227	+ 158	+ 205	+ 214	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	+ 212	Fletcher.....	3939
- 75	- 81	+ 50	+ 52	+ 68	+ 87	+ 108	+ 85	+ 34	- 6	- 28	- 28	- 25	- 70	- 272	- 840	- 340	- 340	Shedden.....	4056
+ 68	+ 100	+ 10	+ 55	+ 63	+ 88	+ 60	+ 57	+ 46	+ 70	+ 70	+ 16	+ 04	+ 60	+ 45	+ 05	+ 03	+ 03	Shepherd.....	1804
- 186	- 197	- 198	- 121	- 135	- 95	- 118	- 125	- 115	- 110	- 138	- 146	- 159	- 172	- 184	- 96	- 85	- 134	McGregor.....	3373
- 214	- 215	- 230	- 234	- 236	- 240	- 209	- 215	- 190	+ 198	+ 190	+ 214	+ 200	+ 275	+ 340	+ 300	+ 210	+ 191	S. Quilliam & Sons.....	2075
- 280	- 316	+ 170	+ 221	+ 239	+ 240	+ 368	+ 284	+ 288	+ 315	+ 334	+ 373	+ 381	+ 397	+ 383	+ 587	+ 652	+ 592	Hadden & Lammner.....	1758
- 290	- 305	- 280	- 285	- 305	- 358	- 325	- 349	- 345	- 360	- 375	+ 410	- 305	- 330	- 377	- 300	- 371	- 305	Perkins & Prosser.....	4113
- 290	- 299	- 160	- 150	- 170	- 165	- 80	- 190	- 237	- 248	- 230	- 285	- 347	- 395	- 448	- 295	- 300	- 295	C. J. S. Rife.....	1805
- 190	- 205	- 85	- 69	- 81	- 86	- 83	- 97	- 97	- 65	- 80	- 100	- 143	- 119	- 139	- 140	- 80	- 80	Gowland.....	1330
- 203	- 217	+ 46	+ 91	+ 128	+ 140	+ 187	+ 199	+ 195	+ 248	+ 288	+ 338	+ 347	+ 319	+ 319	+ 181	+ 289	+ 81	Dell.....	2924
+ 75	+ 100	+ 116	+ 147	+ 150	+ 112	+ 90	+ 87	- 98	- 107	- 68	- 155	- 161	- 147	- 142	- 84	+ 60	+ 45	Evans.....	1962
- 132	- 147	- 168	- 147	- 152	- 184	+ 307	+ 234	+ 255	- 230	- 375	- 265	- 240	- 245	- 338	- 289	- 300	- 305	Williams.....	127
- 143	- 153	- 167	- 167	- 167	- 278	+ 273	+ 299	+ 305	- 347	- 355	+ 406	+ 405	- 390	- 405	- 300	- 370	- 390	Evans.....	1962
- 81	- 93	- 107	- 107	- 104	- 111	+ 11	+ 11	+ 03	- 35	- 24	- 09	- 16	- 11	- 10	- 05	- 05	- 01	Atcheson.....	1086
- 90	- 107	- 123	- 123	- 123	- 358	+ 227	+ 247	+ 256	- 295	- 664	+ 587	+ 639	- 644	- 709	+ 673	+ 735	+ 728	Hammersley.....	2070
+ 738	+ 700	+ 718	+ 777	+ 751	+ 756	+ 715	+ 736	+ 704	- 681	+ 696	+ 783	- 802	- 802	- 784	+ 799	+ 825	+ 760	R. & G. Quilliam.....	1804
- 439	- 453	- 464	- 464	- 464	- 251	- 253	- 183	- 140	- 147	- 175	- 250	- 193	- 440	- 555	- 495	- 558	- 630	Hammersley.....	2070
+ 35	+ 45	+ 309	+ 211	+ 182	+ 233	+ 206	+ 184	+ 217	+ 195	+ 198	+ 50	+ 75	- 120	- 115	- 48	- 350	- 280	Muirhead.....	1850
- 1445	- 1289	- 1189	+ 703	+ 842	+ 404	+ 847	+ 115	+ 223	+ 1202	- 2167	- 1228	- 1394	- 1518	- 1834	- 1489	+ 945	+ 804	Chromometer Thermometer.....	

NAME OF MAKER.	No.	Construction of Equipment and Balance, from the Description furnished by the Maker.	(1.) WEEKLY SUMS OF DAILY RATES											
			Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6	Feb. 27 to Mar. 6
Higher.....	5435	2	+ 6.0	+ 5.5	+ 5.5	+ 5.1	+ 4.5	+ 6.0	+ 4.5	+ 5.7	+ 5.1	+ 5.0	+ 4.5	+ 5.0
Curier.....	5417	2	+ 0.4	+ 4.3	+ 4.3	+ 3.8	+ 2.8	+ 7.1	+ 3.5	+ 4.4	+ 2.1	+ 3.0	+ 0.7	+ 0.3
Brookfield.....	5417	2	+ 4.6	+ 4.7	+ 5.7	+ 3.0	+ 2.7	+ 1.3	+ 5.0	+ 1.5	+ 0.4	+ 7.1	+ 3.7	+ 3.0
Hennessy.....	4886	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
M. F. Dent.....	2646	2	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1	+ 1.1
Isaac.....	1125	2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2	+ 13.2
Reil and Sons.....	2465	2	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8	+ 7.8
Lovely.....	1779	2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2	+ 1.2
Crisp.....	2352	2	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3
Elfe.....	543	2	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3
Isaac.....	1172	2	+ 22.2	+ 20.9	+ 18.7	+ 20.9	+ 18.7	+ 20.9	+ 18.7	+ 20.9	+ 18.7	+ 20.9	+ 18.7	+ 20.9
Lovely.....	1779	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
McGregor and Co.....	3275	2	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3
Parkinson & Poulton.....	4113	2	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3	+ 7.3
Hennessy.....	4900	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Williams.....	127	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Severell.....	3542	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Davidson.....	4965	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Gabriel.....	1708	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Hadden & Lammer.....	1758	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Glover.....	357	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Penningson & Hutton.....	2127	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Campbell.....	1047	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Key.....	371	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Davidson.....	4973	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Shepherd.....	1504	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
McGregor.....	3275	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Quilliam & Sons.....	1758	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Hadden & Lammer.....	1758	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Pyot.....	395	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Shepherd.....	1805	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
C. J. S. Elfe.....	541	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Elfe.....	562	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Dell.....	1958	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Grant.....	1958	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Williams.....	1842	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Severell.....	3542	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Atkinson.....	357	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Hennessy.....	1779	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
R. and G. Quilliam.....	20074	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Hennessy.....	1779	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
C. J. S. Elfe.....	541	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Marine.....	2795	2	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0	+ 1.0
Chronometrical Thermometer.....			+1865.6	+1867.6	+1868.6	+1869.6	+1870.6	+1871.6	+1872.6	+1873.6	+1874.6	+1875.6	+1876.6	+1877.6
Extremes of Temperature as shown by the Self-Registering Thermometer.....			+18.45	+18.45	+18.45	+18.45	+18.45	+18.45	+18.45	+18.45	+18.45	+18.45	+18.45	+18.45

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

																NAME		No.								
																OF										
																MAKER.										
April 17-34	April 24-30	Mar. 29-37	Mar. 1-8	May 8-15	May 22-29	May 10-17	May 24-31	June 1-10	June 15-22	July 17-24	July 24-31	August 1-12	August 15-22	August 24-31	September 1-10	September 15-22	September 24-30	October 1-7	October 14-21	October 28-31	November 4-11	November 18-25	November 25-30	December 2-9	December 16-23	December 30-31
5	87	45	69	48	32	38	67	70	42	63	94	61	94	95	87	56	88	85	Highly	5435						
6	83	41	51	10	06	20	15	10	15	09	15	09	13	11	07	11	06	01	Carter	4886						
7	28	18	35	25	25	25	33	43	37	55	55	46	24	66	14	10	06	01	Cartier	1081						
8	102	88	166	119	115	120	82	91	109	83	72	94	64	163	98	163	97	08	Hennessy	5435						
9	102	88	166	119	115	120	82	91	109	83	72	94	64	163	98	163	97	08	Hennessy	5435						
10	102	88	166	119	115	120	82	91	109	83	72	94	64	163	98	163	97	08	M. F. Dent	2646						
11	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
12	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
13	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
14	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
15	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
16	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
17	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
18	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
19	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
20	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
21	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
22	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
23	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
24	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
25	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
26	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
27	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
28	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
29	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
30	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
31	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
32	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
33	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
34	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
35	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
36	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
37	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
38	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
39	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
40	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
41	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
42	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
43	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
44	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
45	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
46	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
47	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
48	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
49	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
50	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
51	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
52	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
53	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
54	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
55	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
56	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
57	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
58	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
59	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
60	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
61	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
62	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
63	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
64	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
65	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192	169	200	Isaac	1125						
66	146	144	196	150	144	149	191	206	140	142	175	187	150	178	170	192										

NAME OF MAKER.	No.	ADDRESS OF MAKER.	Construction of Expendment and Balance, from the Description furnished by the Maker.	(III).—ABSTRACT OF THE			
				First Day of First Week of Rating.	Last Day of Last Week of Rating.	Number of Days.	Least Weekly Sum.
Highley	5435	2 45, High Street, Sheerness.	Auxiliary acting in cold.	January 9	July 31	29	+ 3.2
Carte	1081	2 61, Cornhill, E.C.	Ordinary construction as in former years.	January 9	July 31	29	- 2.5
Brotherton	5417	11, Spencer Street, Goswell Road, E.C.	Ordinary construction, with slight alteration as in former years.	January 9	July 31	29	- 1.1
Hennessy	4866	5, Wind Street, Swansea.	Auxiliary compensation to balance. (Five years.)	January 9	July 31	29	- 16.3
M. P. Dent	24484	33, Cockspur Street, S.W.	Auxiliary compensation to balance.	January 9	July 31	29	+ 5.2
Inace	1125	2 147, Liverpool Road, Edington, N.	Three arm balance: no auxiliary.	January 9	July 31	29	+ 6.4
Roid and Sons	2465	2 41, Grey Street, Newcastle-on-Tyne.	Auxiliary compensation.	January 9	July 31	29	- 14.1
Lowry	1779	2 66, High Street, Belfast.	A safe auxiliary compensation to balance.	January 9	July 31	29	- 2.8
Criff	3252	2 25, St. John's Street Road, E.C.	Harpun balance.	January 9	July 31	29	- 12.5
Ediffe	542	2 The Laurels, Viewsey, West Drayton.	Balance of independent figure.	January 9	July 31	29	- 10.9
Inace	1172	2 147, Liverpool Road, Edington, N.	Ordinary construction, with slight addition.	January 9	July 31	29	- 22.9
Lowry	1793	2 66, High Street, Belfast.	A safe auxiliary compensation to balance.	January 9	July 31	29	- 9.2
Keys	368	2 15, Crown Street, Strand, W.C.	Ordinary balance, with slight alteration.	January 9	July 31	29	- 1.2
McGregor and Co.	3272	2 45, Clyde Place, Glasgow.	Auxiliary compensation.	January 9	July 31	29	- 11.1
Parkinson and Frodsham	4113	2 4, Change Alley, Cornhill, E.C.	Two auxiliaries to ordinary compound rim balance, one acting in cold, the other in heat.	January 9	July 31	29	- 2.0
Hennessy	4960	2 5, Wind Street, Swansea.	Auxiliary compensation to balance.	January 9	July 31	29	- 18.0
Williams	127	2 21, Bath Dock, Cardiff.	Auxiliary compensation to balance.	January 9	July 31	29	- 4.1
Penlington	2126	2 2 & 3, St. George's Crescent, Liverpool.	Auxiliary compensation, (pendulum of balance.)	January 9	July 31	29	- 0.5
Sevill	3642	2 61, South Castle St. Liverpool & 30, Cornhill, E.C.	Ordinary escapement, with auxiliary acting in cold.	January 9	July 31	29	- 3.0
Davison	4965	2 6, Side, Newcastle-on-Tyne. (Hill, E.C.)	Ordinary escapement, with auxiliary to balance.	January 9	July 31	29	- 23.0
Gabel	1708	2 24, Bishopgate Street Within, E.C.	Auxiliary compensation.	January 9	July 31	29	- 4.0
Hadden and Lammers	1738	2 22, Hampton Street, Liverpool.	Poole's auxiliary.	January 9	July 31	29	- 19.5
Gowland	1320	2 175, High Street West, Sunderland.	Ordinary balance, with slight alteration.	January 9	July 31	29	- 4.3
Glover	357	2 8, Wrotham Rd., Camden New Town, N.W.	Auxiliary compensation as in 1872.	January 9	July 31	29	- 1.5
Penlington and Hutton	2137	2 2 & 3, St. George's Crescent, Liverpool.	Auxiliary compensation.	January 9	July 31	29	- 2.9
Campbell	1047	2 7, South Castle Street, Liverpool.	Ordinary balance, with a slight alteration.	January 9	July 31	29	- 39.4
Key	371	2 15, Crown Street, Strand, W.C.	Ordinary balance, with slight alteration.	January 9	July 31	29	- 1.5
Recher	3920	2 145, Leadenhall Street, E.C.	Auxiliary compensation.	January 9	July 31	29	- 8.9
Davison	4973	2 6, Side, Newcastle-on-Tyne.	Ordinary escapement, with auxiliary to balance.	January 9	July 31	29	- 26.0
Shepherd	1904	2 55, Leadenhall Street, E.C.	Auxiliary to balance.	January 9	July 31	29	- 19.2
McGregor	3272	2 45, Clyde Place, Glasgow.	Auxiliary compensation.	January 9	July 31	29	- 41.9
Saml. Quilliam and Sons	20074	2 39, Elizabeth Street, Liverpool.	Continuous auxiliary, with compensation to balance.	January 9	July 31	29	- 1.4
Hadden and Lammers	1759	2 22, Hampton Street, Liverpool.	Poole's auxiliary.	January 9	July 31	29	- 37.7
Fyot	385	2 5, Victoria Terrace, West India Dock Road, London.	Ordinary balance, with slight alteration.	January 9	July 31	29	- 6.0
Shepherd	1905	2 55, Leadenhall Street, E.C.	Auxiliary to balance.	January 9	July 31	29	- 5.8
C. J. S. Effie	541	2 2, Amersham, Buckinghamshire.	Balance of independent figure.	January 9	July 31	29	- 44.8
Gowland	2234	2 175, High Street West, Sunderland.	Auxiliary compensation.	January 9	July 31	29	- 30.5
Ediffe	542	2 The Laurels, Viewsey, West Drayton.	Application to the pendulum spring.	January 9	July 31	29	- 31.0
Evans	1695	2 Broad Street, Bristol.	Poole's auxiliary.	January 9	July 31	29	- 4.5
Williams	127	2 21, Bath Dock, Cardiff.	Auxiliary compensation to balance.	January 9	July 31	29	- 6.1
Evans	1696	2 1, Sandhill, Quayside, Newcastle-on-Tyne.	Ordinary escapement, with auxiliary acting in cold.	January 9	July 31	29	- 43.4
Sevill	3640	2 61, South Castle St. Liverpool & 30, Cornhill, E.C.	Auxiliary to balance.	January 9	July 31	29	- 29.2
Abelton	3849	2 15, Bank Street, Edlington, (Hill, E.C.)	Auxiliary to the compensation, setting at low temperature.	January 9	July 31	29	+ 0.9
Hammersley	1880	2 54, Spencer Street, Clerkenwell, E.C.	Continuous auxiliary, with compensation to balance.	January 9	July 31	29	- 38.0
Robt. & George Quilliam	20074	2 39, Elizabeth Street, Liverpool.	Flat balance spring, with aux. to the com. setting.	January 9	July 31	29	- 1.7
C. J. S. Effie	541	2 2, Amersham, Buckinghamshire.	Balance of independent figure. (at low temp.)	January 9	July 31	29	- 6.8
Milne	779	2 120, Brookman, Glasgow.	Possible auxiliary compensation.	January 9	July 31	29	- 0.4

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 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.
May 8 to 15	+ 9.4	June 12 to 19†	6.2	3.3	† April 10†, June 12†	Highley	5435
May 15 to 22	+ 7.1	June 19 to 26	6.3	4.7	March 20†	Carte	1081
July 3 to 10	+ 7.1	April 10 to 17	8.2	6.3	† April 10	Brotherton	5417
May 27 to Apr. 3†; Apr. 3 to 10†	- 5.7	June 26 to July 3†	10.6	5.7	March 20†	Hennessy	4886
April 10 to 17	- 12.8	April 10 to 17	7.6	7.6	† April 10	M. P. Dent	24484
January 16 to 23	- 20.4	July 3 to 10†	14.0	5.6	March 20†	Isaac	1125
March 27 to April 3†	- 1.3	February 13 to 20	13.9	8.5	March 6	Ridd and Sons	2460
January 9 to 16	+ 11.5	June 12 to 19†	14.3	6.3	March 13	Lowry	1779
June 12 to 19	- 12.5	January 29 to Feb. 5	12.4	7.6	† July 10	Criff	3252
July 3 to 10	+ 1.5	January 9 to 16, May 22 to 29	12.4	8.4	† July 10	Ediffe	542
March 6 to 13	- 2.5	July 17 to 24	20.4	5.0	June 12†	Isaac	1125
January 16 to 23	+ 4.7	July 17 to 24	17.0	7.0	March 6	Ridd and Sons	2460
January 16 to 23	+ 18.2	June 26 to July 3†	21.0	6.1	† July 10	Lowry	1779
July 24 to 31	- 9.9	February 20 to 27	21.0	6.1	January 23	McGregor and Co.	3272
March 20 to 27†	- 10.8	May 29 to June 5	12.8	10.4	March 20†	Parkinson and Frodsham	4113
April 3 to 10†	- 3.7	February 27 to Mar. 6	14.3	9.8	March 20†	Hennessy	4886
April 3 to 10†	+ 11.0	February 27 to Mar. 6	15.1	9.9	March 20†	Williams	127
March 27 to April 3†	+ 13.5	June 26 to July 3†	20.9	7.0	† July 10	Penlington	2126
January 9 to 16	+ 17.5	June 8 to 12, July 24 to 31	22.5	7.8	July 17	Sevill	3642
March 20 to 27†	- 11.2	February 20 to 27	13.8	12.5	March 20†	Davison	4965
January 9 to 16	+ 17.2	July 10 to 17	21.2	9.4	† July 10	Gabel	1708
January 9 to 16	+ 44.7	July 10 to 17	25.3	7.4	February 6	Hadden and Lammers	1738
January 9 to 16	- 22.9	March 20 to 27†; July 24 to 31†	13.6	12.8	† April 10	Gowland	1320
March 6 to 13	+ 19.0	March 20 to 27†	13.6	12.6	March 20†	Glover	357
February 6 to 13	+ 27.1	July 3 to 10†	30.0	8.9	February 6	Penlington and Hutton	2137
April 3 to 10†	- 14.9	February 6 to 13	24.5	13.1	March 20†	Campbell	1047
January 9 to 16	+ 26.2	January 12 to 19	24.7	14.5	† April 10	Key	371
July 13 to 24, July 24 to 31	- 34.0	July 17 to 24, July 24 to 31	30.0	14.5	March 20†	Recher	3920
February 6 to 13	+ 6.0	June 26 to July 3†; July 3 to 10†	23.0	13.1	March 20†	Davison	4973
February 6 to 13	+ 10.0	April 3 to 10†	29.3	14.7	March 20†	Shepherd	1904
February 27 to Mar. 6	- 8.5	July 17 to 24	32.4	12.9	March 20†	McGregor	3272
January 20 to Feb. 5	+ 30.9	July 10 to 17	29.5	15.6	March 20†	Saml. Quilliam and Sons	20074
March 27 to April 3†	+ 58.7	July 10 to 17	31.0	20.1	† July 10	Hadden and Lammers	1759
January 9 to 16	+ 5.5	July 3 to 10†	24.5	14.6	† April 10	Fyot	385
February 6 to 13	- 41.0	June 12 to 19†	35.2	14.7	March 20†	Shepherd	1905
July 3 to 10†	- 15.0	April 17 to 24	29.8	19.3	† July 10	C. J. S. Effie	541
March 20 to 27†	- 4.4	May 22 to 29	20.6	22.5	March 20†	Gowland	2234
January 16 to 23	+ 34.7	June 19 to 26†	35.7	17.1	† April 10	Ediffe	542
July 24 to 31	- 22.1	February 27 to Mar. 6	37.6	21.3	March 20†	Evans	1695
February 6 to 13	+ 30.5	July 24 to 31	36.6	17.1	March 20†	Williams	127
June 12 to 19†	- 10.7	January 29 to Feb. 5	32.7	25.8	June 12†	Evans	1696
March 27 to Apr. 3†	+ 73.5	July 17 to 24	42.6	25.4	March 2†	Sevill	3640
January 9 to 16	+ 22.5	July 10 to 17	44.5	29.2	March 20†	Robt. & George Quilliam	20074
January 9 to 16	+ 69.2	July 10 to 17	44.5	29.2	† July 10	Hammersley	1880
March 20 to 27†	- 1.5	July 10 to 17	65.5	29.9	† March 27†	C. J. S. Effie	541
March 6 to 13	- 48.8	July 10 to 17	49.2	37.6	† July 10	Milne	779

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