

RATES OF CHRONOMETERS

ON TRIAL

FOR PURCHASE BY THE BOARD OF ADMIRALTY,

AT THE

ROYAL OBSERVATORY, GREENWICH.

1863.

NAME OF MAKER.	No.	Construction of Escapement and Balance, from the Description furnished by the Maker.	(1.) WEEKLY SUMS OF DAILY RATES.																	IN THE ORDER OF TIME.																	NAME OR MAKER.	No.
			Jan. 10-17	Jan. 17-24	Jan. 24-31	Jan. 31 to Feb. 7	Feb. 7-14	Feb. 14-21	Feb. 21-28	Feb. 28 to Mar. 7	Mar. 7-14	Mar. 14-21	Mar. 21-28	Mar. 28 to Apr. 4	Apr. 4-11	Apr. 11-18	Apr. 18-25	Apr. 25 to May 2	May 2-9	May 9-16	May 16-23	May 23-30	May 30 to June 6	June 6-13	June 13-20	June 20-27	June 27 to July 4	July 4-11	July 11-18									
J. B. Fletcher	5690	2	Auxiliary compensation.	-12	-12	-108	-116	-114	-124	-96	-60	-48	-92	-99	-100	-78	-91	-85	-79	-80	-81	-74	-64	-83	-56	-71	-71	-85	-77	-83	J. B. Fletcher	5690						
Kulberg	5691	2	Original balance, consisting of a single bar and flat rim, without auxiliary.	+18	+20	+9	-27	-13	-12	-47	-31	-18	-17	-58	-48	-38	-31	-29	-27	-27	-37	-35	-36	-30	-37	-40	-40	-72	-83	-80	Kulberg	5691						
Webb	5447	2	Auxiliary compensation to the balance.	+61	+45	+41	-38	-39	-41	-69	-56	-49	-99	-27	+1	+10	-10	-82	+63	+6	+12	+21	-99	-64	-31	-16	-46	-36	-11	-13	Webb	5447						
Glover	5692	2	Auxiliary compensation acting in cold.	+16	+24	+93	-14	-39	-40	-12	-52	+64	+90	+53	+65	+75	+95	+86	+82	+65	+75	+79	+98	+103	+66	+91	+50	+87	+71	+100	+21	Glover	5692					
Crish	5693	2	Auxiliary compensation to the balance.	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	Crish	5693					
Reid and Son	1229	2	Auxiliary compensation to the balance.	+60	+56	+65	+92	+83	+68	+103	+76	+51	+94	+10	+64	+04	+25	+99	+10	+07	+99	+93	+38	+18	+19	+25	+42	+48	+38	+31	+10	Reid and Son	1229					
Gowland	5694	2	Poole's auxiliary.	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	Gowland	5694					
Poole	5343	2	Poole's auxiliary.	+18	+28	+29	+30	+31	+18	+62	+95	+91	+72	+54	+77	+69	+52	+33	+35	+27	+20	+76	+88	+84	+74	+76	+78	+117	+110	+100	+100	Poole	5343					
Kulberg	5695	2	Auxiliary to balance.	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	+174	Kulberg	5695					
C. Frodham	3155	2	Original balance, consisting of a bar and two rims, without auxiliary.	+57	+47	+36	+13	+16	-19	-1	+46	+34	+65	+37	+68	+60	+63	+64	+83	+63	+58	+60	+66	+54	+106	+111	+13	+20	+36	+40	C. Frodham	3155						
C.M. Frodham, jun.	7271	2	Auxiliary compensation for high temperatures.	+25	+21	+28	+39	+23	-12	-19	+36	+55	+53	+60	+40	+51	+61	+43	+63	+58	+49	+41	+84	+80	+106	+152	+82	+90	+98	+97	+98	C.M. Frodham, jun.	7271					
P. Birchall	5441	2	New construction of balance.	+78	+92	+75	+67	+80	+89	-12	-11	+26	+44	+56	+139	+123	+121	+125	+117	+87	+111	+120	+92	+61	+106	+68	+56	+41	+109	+96	+91	P. Birchall	5441					
J. J. Meinhart	7272	2	Ordinary construction of balance, with a slight alteration.	+78	+92	+75	+67	+80	+89	-12	-11	+26	+44	+56	+139	+123	+121	+125	+117	+87	+111	+120	+92	+61	+106	+68	+56	+41	+109	+96	+91	J. J. Meinhart	7272					
Middle and Son	1228	2	Auxiliary compensation to the balance.	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	Middle and Son	1228				
McGregor and Co.	3324	2	Poole's auxiliary.	+23	+37	+72	+106	+93	+93	+97	+55	+30	+42	+24	+23	+43	+48	+46	+61	+11	+23	+64	+23	+14	+50	+46	+46	+46	+46	+46	+46	McGregor and Co.	3324					
Beutts	5696	2	Auxiliary to balance.	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	Beutts	5696				
Hannover	3265	2	Poole's auxiliary.	+33	+44	+12	+28	+20	+40	+129	+131	+92	+65	+39	+29	+49	+89	+78	+60	+68	+64	+68	+114	+129	+73	+121	+47	+40	+43	+42	Hannover	3265						
T. Campbell	904	2	Ordinary construction of balance, with a slight alteration.	+154	+96	+105	+108	+132	+139	+113	+78	+43	+21	+40	+55	+86	+80	+80	+80	+80	+80	+80	+80	+144	+100	+45	+41	+41	+41	+41	+41	T. Campbell	904					
J. Fletcher	3266	2	Auxiliary compensation.	+154	+96	+105	+108	+132	+139	+113	+78	+43	+21	+40	+55	+86	+80	+80	+80	+80	+80	+80	+144	+100	+45	+41	+41	+41	+41	+41	+41	J. Fletcher	3266					
P. Birchall	5441	2	Ordinary construction of balance, with a slight alteration.	+154	+96	+105	+108	+132	+139	+113	+78	+43	+21	+40	+55	+86	+80	+80	+80	+80	+80	+80	+144	+100	+45	+41	+41	+41	+41	+41	+41	P. Birchall	5441					
Crish	5693	2	Auxiliary compensation to the balance.	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	+122	+78	Crish	5693					
Reid and Son	1229	2	Auxiliary compensation to the balance.	+60	+56	+65	+92	+83	+68	+103	+76	+51	+94	+10	+64	+04	+25	+99	+10	+07	+99	+93	+38	+18	+19	+25	+42	+48	+38	+31	+10	Reid and Son	1229					
Gowland	5694	2	Poole's auxiliary.	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	Gowland	5694					
Poole	5343	2	Poole's auxiliary.	+18	+28	+29	+30	+31	+18	+62	+95	+91	+72	+54	+77	+69	+52	+33	+35	+27	+20	+76	+88	+84	+74	+76	+78	+117	+110	+100	+100	Poole	5343					
J. Fletcher	3266	2	Auxiliary compensation.	+154	+96	+105	+108	+132	+139	+113	+78	+43	+21	+40	+55	+86	+80	+80	+80	+80	+80	+80	+144	+100	+45	+41	+41	+41	+41	+41	+41	J. Fletcher	3266					
Dent	3019	2	Dent's patent balance; see pamphlet "On the Errors of Chronometers," p. 25.	+67	+69	+79	+91	+68	+58	+120	+133	+84	+97	+22	+40	+41	+66	+66	+64	+79	+29	+29	+45	+180	+180	+180	+180	+180	+180	+180	+180	Dent	3019					
Webb	5439	2	Auxiliary compensation to the balance.	+147	+66	+73	+74	+83	+89	+103	+22	+11	+22	+40	+78	+74	+85	+93	+122	+139	+140	+127	+160	+47	+120	+59	+74	+19	+38	+33	Webb	5439						
L. U. Jürgensen	1335	2	New escapement for diminishing friction, gold pendulum—original ordinary balance.	+77	+40	+80	+29	+29	+287	+441	+363	+535	+335	+309	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	+382	L. U. Jürgensen	1335					
Clark and Son	3135	2	Poole's auxiliary.	+52	+45	+11	+01	+12	+50	+4	+32	+75	+99	+100	+119	+107	+138	+128	+133	+127	+119	+124	+60	+51	+52	+18	+147	+160	+136	+152	Clark and Son	3135						
Parkinson and Frodsham	3689	2	Auxiliary to ordinary construction of balance.	+104	+83	+64	+61	+44	+58	+175	+295	+156	+184	+139	+119	+119	+138	+128	+132	+124	+114	+118	+217	+189	+189	+189	+189	+189	+189	+189	+189	Parkinson and Frodsham	3689					
Poole	5337	2	Poole's auxiliary.	+18	+28	+29	+30	+31	+18	+62	+95	+91	+72	+54	+77	+69	+52	+33	+35	+27	+20	+76	+88	+84	+74	+76	+78	+117	+110	+100	+100	Poole	5337					
Dent	3019	2	Dent's patent balance; see pamphlet "On the Errors of Chronometers," p. 25.	+67	+69	+79	+91	+68	+58	+120	+133	+84	+97	+22	+40	+41	+66	+66	+64	+79	+29	+29	+45	+180	+180	+180	+180	+180	+180	+180	+180	Dent	3019					
Bennett	831	2	New auxiliary compensation.	+171	+243	+240	+253	+261	+275	+301	+253	+270	+275	+310	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	+320	Bennett	831					
J. Meinhart and Son	3337	2	Poole's auxiliary.	+117	+101	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	J. Meinhart and Son	3337					
Owen Owens	3289	2	New supplementary auxiliary.	+117	+101	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	Owen Owens	3289					
Blackley	589	2	Auxiliary to ordinary construction of balance.	+117	+101	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	Blackley	589					
Reynolds	7245	2	Malynes's auxiliary.	+117	+101	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	+107	Reynolds	7245					
Reid and Son	1229	2	Auxiliary to ordinary construction of balance.	+60	+56	+65	+92	+83	+68	+103	+76	+51	+94	+10	+64	+04	+25	+99	+10	+07	+99	+93	+38	+18	+19	+25	+42	+48	+38	+31	+10	Reid and Son	1229					
Parkinson and Frodsham	3689	2	Auxiliary to ordinary construction of balance.	+104	+83	+64	+61	+44	+58	+175	+295	+156	+184	+139	+119	+119	+138	+128	+132	+124	+114	+118	+217	+189	+189	+189	+189	+189	+189	+189	+189	Parkinson and Frodsham	3689					
Hewitt and Son	2534	2	Hartung's balance.	+352	+302	+278	+309	+282	+297	-64	+45	+21	+103	+104	+99	-87	-85	-73	-80	-54	+68	-83	-07	-52	-70	-121	-60	-57	-44	-35	Hewitt and Son	2534						
Beutts	5696	2	Auxiliary to balance.	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	+108	Beutts	5696					
Hewitt and Son	2534	2	Original auxiliary.	+62	+93	+98	+134	+137	+116	+129	+6	+30	+164	+182	+200	+196	+205	+228	+239	+251	+227	+247	+33	+63	+11	+113	+188	+209	+220	+220	Hewitt and Son	2534						
Glover	5692	2	Auxiliary compensation acting in cold.	+16	+24	+93	-14	-39	-40	-12	-52	+64	+90	+53	+65	+75	+95	+86	+82	+65	+75	+79	+98	+103	+66	+91	+50	+87	+71	+100	+21	Glover	5692					
Reid and Son	1229	2	Auxiliary compensation to the balance.	+60	+56	+65	+92	+83	+68	+103	+76	+51	+94	+10	+64	+04	+25	+99	+10	+07	+99	+93	+38	+18	+19	+25	+42	+48	+38	+31	+10	Reid and Son	1229					
Gowland	5694	2	Poole's auxiliary.	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	+34	Gowland	5694					
Poole	5343	2	Poole's auxiliary.	+18	+28	+29	+30	+31	+18	+62	+95	+91	+72	+54	+77	+69																						

[illegible]

during these weeks the North windows of the Chronometer Room were left open

during these weeks the Chronometers were placed in the chamber of a stove heated by gas

The order of arrangement of the Chronometers in this Table is determined solely by consideration of their irregularities of rate.

The Chronometer Calma 786 was found stopped on June 9, and was removed on June 15. On April 23 Blackie 511 was also found stopped: the maker on examination found the stoppage to have been caused by the main spring having broken: the Chronometer was removed on April 27. The rates of these Chronometers, on account of the shorter duration of their correct running, will be given in a separate division of the Table.

Two Chronometers which became deranged soon after the commencement of the trial are entitled

meter

The order of arrangement of the Chronometers in this Table is determined solely by consideration of their irregularities of rate. The Chronometer Cairns 786 was found stopped on June 9, and was removed on June 15. On April 23 Blackie 511 was also found stopped: the maker on examination the stoppage to have been caused by the main spring having broken: the Chronometer was removed on April 27. The rates of these Chronometers, on account of the duration of trial, are not comparable with those of the other Chronometers, and they are in consequence placed in a separate division at the end of the Table.

NAME OF MAKER.	No.	Where made.	ADDRESS OF MAKER.	Construction of Escapement and Balance, from the Description furnished by the Maker.	(III).—ABSTRACT OF THE				NAME OF MAKER.	No.
					First Day of Rating.	Last Day of Rating.	Number of Weeks.	Least Weekly Sum.		
J. B. Fletcher	3690	2	148, Leadenhall Street, London.	Auxiliary compensation.	January 10	July 18	27	-12.4		
Kilburg	595	2	15, Clondyffe Terrace, Kingston, London.	Original balance, consisting of a single bar and flat rim, without auxiliary.	January 10	July 18	27	-8.5		
Webb.	5447	2	4, Pullen's Row, Upper Street, Islington, London.	Auxiliary compensation to the balance.	January 10	July 18	27	-6.9		
Glover	5147	2	4, Swinton Street, Gray's Inn Road, London.	Auxiliary compensation acting in cold.	January 10	July 18	27	-1.4		
Moore	607	2	45, Spencer Street, Gower's Road, London.	Original auxiliary compensation.	January 10	July 18	27	-12.6		
Cribb.	728	2	30, Southampton Row, Russell Square, London.	Auxiliary compensation to the balance.	January 10	July 18	27	-10.3		
Reid and Sons	1220	2	41, Grey Street, Newcastle-upon-Tyne.	Auxiliary to the balance.	January 10	July 18	27	-3.1		
Gowland	2343	2	57, Fenchurch Street, London.	Auxiliary to the balance.	January 10	July 18	27	-1.4		
Reid and Sons	1228	2	41, Grey Street, Newcastle-upon-Tyne.	Auxiliary to the balance.	January 10	July 18	27	-1.1		
Kilburg	596	2	15, Clondyffe Terrace, Kingston, London.	Original balance, consisting of a bar and two rims, without auxiliary.	January 10	July 18	27	-10.3		
C. Frohman.	3155	2	84, Strand, London.	Ordinary construction, with an experimental auxiliary for high temperatures.	January 10	July 18	27	-1.9		
C. M. Frohman, jun.	727	2	84, Strand, London.	Ordinary construction of balance, with a slight alteration.	January 10	July 18	27	-3.9		
P. Bichell	841	2	65, Great Percy Street, London.	Ordinary construction of balance, with a slight alteration.	January 10	July 18	27	-1.2		
J. J. Mairhead	7279	2	28, Princes Street, Edinburgh.	Auxiliary compensation to the balance.	January 10	July 18	27	-33.6		
Millidge and Son.	382	2	28, Princes Street, Edinburgh.	Original auxiliary compensation.	January 10	July 18	27	-11.1		
McGregor and Co.	3334	2	38, Clyde Place, Glasgow, and 8, William Street, Greenock.	Poole's auxiliary.	January 10	July 18	27	-10.6		
Branton.	555	2	5, Arden Street, John Street, Minories, London.	Auxiliary to balance.	January 10	July 18	27	-3.8		
Hennessy	3265	2	5, Wind Street, Swansea.	Poole's auxiliary.	January 10	July 18	27	-13.1		
T. Campbell	904	2	7, South Castle Street, Liverpool.	Ordinary construction of balance, with a slight alteration.	January 10	July 18	27	-1.9		
J. Campbell	911	2	7, South Castle Street, Liverpool.	Ordinary construction of balance, with a slight alteration.	January 10	July 18	27	-13.4		
J. Fletcher	2933	2	148, Leadenhall Street, London.	Auxiliary compensation.	January 10	July 18	27	-0.6		
Chittenden	670	2	20, Kent Villas, Grange Road East, Dalston, London.	Ordinary construction.	January 10	July 18	27	-10.3		
Roskell	3213	2	21 and 23, Church Street, Liverpool.	Harrison's auxiliary.	January 10	July 18	27	+18.1		
Lister and Sons.	592	2	Newcastle-upon-Tyne.	Poole's auxiliary.	January 10	July 18	27	-13.5		
C. M. Frohman, jun.	7278	2	84, Strand, London.	New construction of balance.	January 10	July 18	27	-7.5		
Moore	3863	2	114, High Street, Belfast.	Poole's auxiliary.	January 10	July 18	27	-15.5		
J. Fletcher	2818	2	148, Leadenhall Street, London.	Auxiliary compensation.	January 10	July 18	27	-23.2		
Dent	3019	2	61, Strand, London.	Dent's patent balance; see pamphlet, "On the Errors of Chronometers," p. 25.	January 10	July 18	27	-12.0		
Webb.	5439	2	4, Pullen's Row, Upper Street, Islington, London.	Auxiliary compensation to the balance.	January 10	July 18	27	-10.3		
L. U. Jürgensen	13335	2	Copenhagen.	New escapement for diminishing friction, gold pendulum-spring, and ordinary balance.	January 10	July 18	27	+14.0		
Clark and Son	3135	2	Greenock.	Poole's auxiliary.	January 10	July 18	27	-1.8		
Parkinson and Frohman	3689	2	4, Change Alley, Cornhill, London.	Auxiliary to ordinary construction of balance.	January 10	July 18	27	-25.5		
Poole.	3307	2	57, Fenchurch Street, London.	Poole's auxiliary.	January 10	July 18	27	-25.5		
Parkinson and Bost.	1084	2	59, Greenchurch Street, London.	Ordinary construction, with a slight alteration to the balance.	January 10	July 18	27	-25.5		
Dent	2963	2	61, Strand, London.	Dent's patent balance; see pamphlet "On the Errors of Chronometers," p. 25.	January 10	July 18	27	-20.7		
Bennett.	831	2	64 and 65, Cheselde, and 62, Cornhill, London.	New auxiliary compensation.	January 10	July 18	27	+17.1		
J. Mairhead and Son	3337	2	28, Princes Street, Glasgow.	Poole's auxiliary.	January 10	July 18	27	-20.9		
Owen Owens	3180	2	4, South Castle Street, Liverpool.	Poole's auxiliary.	January 10	July 18	27	-9.8		
Hennessy	3265	2	5, Wind Street, Swansea.	Poole's auxiliary.	January 10	July 18	27	-1.4		
Blackie	809	2	24, Anwell Street, Testonville, London.	New supplementary auxiliary.	January 10	July 18	27	-9.0		
Reynolds	7245	2	18, Queen Street, Hull.	Auxiliary compensation to the balance.	January 10	July 18	27	+11.4		
Reynolds	7245	2	18, Queen Street, Hull.	Auxiliary to the balance.	January 10	July 18	27	-11.4		
F. Fletcher	2913	2	148, Leadenhall Street, London.	Auxiliary compensation.	January 10	July 18	27	-10.0		
Parkinson and Frohman	3689	2	4, Change Alley, Cornhill, London.	Auxiliary to ordinary construction of balance.	January 10	July 18	27	-25.5		
Hewitt and Son	2554	2	15, John Street, Midway Park, Kings- land, London.	Harrison's balance.	January 10	July 18	27	-25.2		
Branton	580	2	5, America Square, John Street, Minories, London.	Auxiliary to balance.	January 10	July 18	27	-30.1		
Bennett.	830	2	64 and 65, Cheselde, and 62, Cornhill, London.	New auxiliary compensation.	January 10	July 18	27	-11.5		
Hewitt and Son	2561	2	12, John Street, Midway Park, Kings- land, London.	Original auxiliary.	January 10	July 18	27	-11.5		
Glover	343	2	4, Swinton Street, Gray's Inn Road, London.	Auxiliary compensation acting in cold.	January 10	July 18	27	+0.4		
Blackie	809	2	24, Anwell Street, Testonville, London.	New unpublished principle of compensation.	January 10	July 18	27	-48.3		
Blackie	809	2	173, Fenchurch Street, London.	Auxiliary compensation balance.	January 10	July 18	27	-2.3		
Parkinson and Bost.	1084	2	59, Greenchurch Street, London.	Auxiliary compensation.	January 10	July 18	27	-2.3		
Highfield, Brothers	5845	2	5, King Edward Terrace, Liverpool Road, Islington, London.	Auxiliary to balance.	January 10	July 18	27	+48.3		
Cairns	786	2	13, Waterloo Road, Liverpool.	Poole's auxiliary.	January 10	June 6	21	-14.3		
Blackie	811	2	24, Anwell Street, Testonville, London.	New original auxiliary.	January 10	April 18	14	-19.9		

* During these weeks the North windows of the Chronometer Room were left open.

* During these weeks the Chronometers were placed in the chamber of a stove heated by gas.

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.
February 14 to 21*	- 5.6	June 6 to 13†	6.8	8.6	† February 28†	J. B. Fletcher	2690
July 11 to 18	+ 2.5	January 17 to 24*	11.0	4.1	May 20†	Kilburg	595
February 21 to 28†	+ 2.1	May 16 to 23	9.0	5.5	† May 20†	Webb.	5447
January 31 to Feb. 7*	+ 11.3	July 13 to 18	13.7	6.4	* February 21†	Glover	3115
February 21 to 28†	+ 0.3	May 9 to 16	12.4	6.5	May 20†	Moore	607
February 21 to 28†	+ 2.5	June 13 to 20†	13.8	6.7	† June 20	Cribb.	728
February 21 to 28†	+ 7.4	April 4 to 11	10.5	8.3	* February 21†	Reid and Sons	1220
January 10 to 17*	+ 13.2	March 7 to 14†	15.0	6.7	† March 14	Gowland	2343
February 21 to 28†	+ 1.8	July 4 to 11	15.0	6.0	† June 20†	Poole	3307
February 21 to 28†	+ 10.4	July 4 to 11	14.7	7.5	† June 20	Reid and Sons	1228
January 31 to Feb. 7*	+ 31.9	June 6 to 13†	15.7	7.5	† February 28†	Kilburg	596
February 14 to 21*	+ 11.1	June 13 to 20†	13.0	9.0	† June 20	C. Frohman.	3155
January 31 to Feb. 7*	+ 15.2	June 13 to 20†	19.1	7.0	* February 20	C. M. Frohman, jun.	727
February 21 to 28†	+ 13.9	March 23 to April 4	13.1	9.5	* February 21†	P. Bichell	841
March 21 to 28†	+ 17.2	March 7 to 14†	16.4	9.1	May 2	J. J. Mairhead	7279
February 21 to 28†	+ 9.1	July 4 to 11	20.3	7.5	† June 20	Millidge and Son.	382
January 31 to Feb. 7*	+ 5.7	July 11 to 18	16.3	9.6	† June 20	McGregor and Co.	3334
January 31 to Feb. 7*	+ 17.5	July 11 to 18	20.8	7.6	† March 14	Branton.	555
Feb. 28 to March 7†	+ 5.3	January 10 to 17*	18.4	8.9	* February 21†	Hennessy	3265
February 21 to 28†	+ 15.0	March 13 to 20†	16.2	10.1	† June 20	T. Campbell	904
January 10 to 17*	+ 3.4	May 16 to 23	18.8	9.0	May 20†	J. Campbell	911
March 28 to April 4†	+ 18.5	Feb. 28 to March 7†	19.1	9.3	March 21	J. Fletcher	2933
April 11 to 18	+ 6.1	June 27 to July 4	16.4	11.2	† June 20	Chittenden	670
Feb. 28 to March 7†	+ 25.3	June 20 to 27	17.2	11.0	† June 20	Roskell	3213
March 21 to Feb. 7*	+ 1.4	July 11 to 18	14.9	13.6	† June 20	Lister and Sons	592
January 10 to 17*	+ 31.0	June 20 to 27†	23.5	10.4	* February 21†	C. M. Frohman, jun.	7278
June 13 to 20†	+ 0.8	June 27 to July 4	16.3	14.7	† June 20	Moore	3863
February 21 to 28†	+ 8.4	March 7 to 14†	20.4	13.3	† March 14	J. Fletcher	2818
February 21 to 28†	+ 16.0	May 23 to 30†	25.3	11.3	† May 30†	Webb.	5439
January 10 to 17*	+ 39.2	April 4 to 11	25.2	12.3	* February 21†	L. U. Jürgensen	13335
June 13 to 20†	+ 16.0	February 27 to July 4	17.6	16.5	† June 20	Clark and Son	3135
February 21 to 28†	+ 4.4	July 7 to 14*	21.1	15.7	† June 20	Parkinson and Frohman	3689
June 13 to 20†	+ 4.0	June 27 to July 4	19.4	16.7	† June 20	Poole	3307
June 13 to 20†	+ 2.7	January 18 to 24*	28.4	12.8	† June 20	Parkinson and Bost.	1084
March 14 to 21*	- 0.1	June 27 to July 4	20.6	17.0	May 20†	Dent	2963
January 10 to 17*	+ 37.6	May 2 to 9	20.5	17.2	† June 20	Bennett.	831
June 13 to 20†	+ 5.1	January 10 to 17*	25.6	16.0	May 20†	J. Mairhead and Son	3337
March 21 to 28†	+ 17.0	March 21 to 28†	20.2	16.0	March 14	Owen Owens	3180
July 11 to 18	+ 17.0	March 14 to 21	27.0	15.5	† June 20	Hennessy	3265
January 10 to 17*	+ 16.7	July 11 to 18	23.7	16.7	† June 20	Reynolds	7245
January 10 to 17*	+ 10.7	April 11 to 18	20.7	15.1	† April 18	Reynolds	7245
February 21 to 28†	+ 14.1	June 13 to 20†	28.3	19.4	† March 14	Roskell	3213
February 21 to 28†	+ 6.0	June 13 to 20†	29.9	19.2	† June 20	J. Fletcher	2818
February 21 to 28†	+ 3.6	February 7 to 14*	36.1	21.5	* February 21†	Parkinson and Frohman	3689
January 10 to 17*	+ 35.7	May 23 to 30†	34.5	23.3	* February 21†	Hewitt and Son	2554
June 13 to 20†	+ 3.8	July 11 to 18	23.9	28.4	† June 20	Branton.	580
January 10 to 17*	+ 40.3	July 11 to 18	51.8	29.8	† June 20	Bennett.	830
June 13 to 20†	+ 29.7	May 9 to 16	37.0	36.1	† June 20	Hewitt and Son	2561
February 21 to 28†	+ 75.0	July 4 to 11	74.6	15.9	July 4	Glover	343
July 11 to 18	- 9.0	June 13 to 20†	39.2	24.1	† June 20	Biffé	299
February 21 to 28†	+ 9.1	July 11 to 18	16.0	16.0	† June 20	Blackie	809
February 14 to 21*	+ 39.7	June 6 to 13†	48.0	24.5	* February 21†	Gowland	2343
June 13 to 20†	+ 8.9	April 4 to 11	27.3	30.6	† June 20	Parkinson and Bost.	1084
January 10 to 17*	+ 133.7	June 6 to 13†	74.2	30.8	† March 14	Highfield, Brothers	5845
February 21 to 28†	+ 2.3	May 16 to 23	16.6	9.7	May 20†	Cairns	786
January 31 to Feb. 7*	+ 1.0	March 7 to 14†	30.9	17.9	† March 14	Blackie	811

The order of arrangement of the Chronometers to this Table is determined solely by consideration of their irregularities of rate. The Chronometer Cairns 786 was found stopped on June 15. On April 23 Blackie 511 was also found stopped; the maker on examination found the stoppage to have been caused by the main spring having broken: the Chronometer was removed on account of the shorter duration of trial, are not comparable with those of the other Chronometers, and they are in consequence placed in a separate division at the end of the Table. Two Chronometers which became deranged soon after the commencement of the trial are entirely omitted.