

RATES OF CHRONOMETERS

ON TRIAL

FOR PURCHASE BY THE BOARD OF ADMIRALTY,

AT THE

ROYAL OBSERVATORY, GREENWICH.

1849.

RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY,

NAME OF MAKER.	Number.	Whether Pocket, 1, 2, or 8 Days.	(I).—WEEKLY SUMS OF DAILY RATES											
			Jan. 13—20 *	Jan. 20—27 *	Jan. 27— Feb. 3 *	Feb. 3—10 *	Feb. 10—17 *	Feb. 17—24 *	Feb. 24— Mar. 3 §	March 3—10 †	March 10—17	March 17—24	March 24—31	Mar. 31— April 7 †
Eiffe.	662	2	— 6·4	— 3·9	— 6·4	— 4·0	— 5·4	— 6·0	—14·0	— 3·7	— 7·2	— 7·8	— 9·0	— 6·3
Poole.	1242	2	—17·1	—14·4	—12·8	— 9·6	—15·0	— 9·3	— 7·1	+ 0·2	— 3·4	— 0·8	— 3·8	— 0·9
Loseby.	124	2	+ 3·6	+ 6·2	+ 5·5	+ 7·0	+ 5·6	+ 9·3	+16·1	+20·9	+11·7	+10·5	+10·9	+13·4
Fletcher.	1158	2	....	— 3·9	+ 1·1	+ 2·6	+ 5·0	+ 5·5	— 3·0	+ 6·8	+ 5·1	+11·6	+15·5	+ 6·8
Stoddart.	772	8	—60·1	—65·9	—69·4	—66·0	—68·9	—59·2	—63·2	—55·2	—57·4	—59·0	—61·9	—55·3
Dixon.	360	2	....	—15·8	—18·0	—11·6	— 9·3	— 8·8	—17·7	— 6·0	— 7·1	— 9·4	—13·0	— 9·3
Baker.	1125	2	+ 8·0	+10·1	+ 7·6	+10·4	+ 9·2	+11·6	+ 4·6	+22·1	+22·6	+16·6	+16·9	+20·7
Reid and Son.	1092	2	— 9·3	— 7·1	— 6·2	— 8·2	— 7·7	— 6·6	—15·9	— 0·5	+ 1·2	+ 3·0	+ 3·7	+ 1·7
M'Gregor.	1608	2	....	—22·4	—26·2	—26·7	—24·9	—24·5	— 6·6	+ 3·9	— 6·9	— 6·9	— 6·3	+ 0·6
Murray.	685	1	—13·1	—15·9	—16·9	—14·0	—19·9	—13·3	—35·3	—23·2	—22·8	—19·1	—22·3	—13·6
C. Frodsham.	1962	2	....	+ 3·6	+ 4·1	+ 1·5	+ 2·4	— 0·3	—11·2	+ 4·5	+ 2·7	+ 2·0	+ 2·9	+ 6·4
Appleton.	538	2	....	— 4·9	— 7·0	— 1·9	— 6·5	— 3·3	—25·6	— 3·2	— 5·8	— 6·5	—11·3	— 4·9
Dent.	2100	2	—17·5	—20·5	—18·9	—18·2	—19·2	—26·3	— 6·2	— 0·7	—13·5	—12·3	—13·6	— 5·6
Cotterell and Co.	^{0 1 1} _{2 8 3 4}	2	....	+26·2	+21·1	+25·0	+20·2	+25·1	+22·7	+37·5	+36·7	+37·4	+31·0	+43·8
Parkinson and Frodsham..	2593	2	— 2·3	— 8·0	—10·3	— 6·0	—12·9	— 2·9	+11·9	+27·3	+25·2	+26·5	+17·5	+32·9
Webb.	5128	2	+ 9·8	+ 9·2	+16·0	+11·0	+13·7	+11·8	—10·8	—22·9	— 3·6	+ 2·0	+ 5·9	—15·9
Hutton.	188	2	+ 3·9	+ 2·5	+ 2·7	+ 2·4	+ 0·7	+ 2·1	—24·6	— 8·3	+ 0·5	+ 6·4	+ 8·0	— 3·3
Lister and Son.	506	2	—19·7	—17·3	—18·9	—18·0	—19·4	—17·5	—40·3	—23·4	—11·3	— 6·8	— 4·4	—19·5
Norris and Campbell.	586	2	+ 3·1	+ 0·6	— 4·9	+ 2·5	— 4·9	+ 3·1	—20·1	+ 1·7	+ 1·2	+ 2·1	— 1·3	+ 8·8
Losada.	1417	2	—30·1	—32·0	—41·3	—42·5	—49·5	—42·3	—53·2	—25·6	—27·2	—27·5	—33·2	—25·1
Baker.	1147	8	....	....	....	....	....	....	....	....	....	....	—26·5	—23·2
Birchall.	378	2	....	+ 5·0	+ 3·5	+ 3·5	+ 3·1	+ 8·5	—14·5	+12·4	+13·4	+13·9	+12·3	+16·9
H. T. Hewitt.	420	2	— 8·1	— 9·9	—12·4	— 7·5	—13·4	— 6·6	—29·9	— 4·7	— 4·8	— 6·6	— 9·1	+ 3·4
Walker.	20	2	....	— 2·9	— 1·9	— 1·5	— 3·4	— 3·6	+19·6	— 8·7	+ 5·7	+11·5	+12·9	— 1·1
Clark and Son.	1233	2	—21·0	—19·5	—26·8	—23·6	—26·8	—19·5	—37·6	— 4·5	— 1·4	— 1·5	— 6·2	— 4·0
Carter.	535	2	....	— 6·9	— 7·9	— 3·5	— 8·3	— 2·8	+16·6	—16·0	— 3·9	— 0·5	— 3·0	—10·7
Hewitt.	1448	2	—25·6	—26·5	—31·3	—30·0	—33·4	—27·3	—57·8	—34·7	—26·3	—25·0	—26·9	—26·1
Muirhead.	1319	2	+23·7	+26·8	+30·4	+36·3	+36·6	+43·6	+ 9·4	+20·8	+23·2	+29·4	+34·0	+34·7
Phillips.	970	2	....	— 9·4	— 6·9	— 8·0	— 5·8	— 4·6	—39·0	—18·1	— 8·4	— 6·0	— 3·5	—16·5
Parkinson and Bouts.	646	2	....	+ 1·6	— 2·1	— 1·3	— 5·9	— 1·8	—24·2	— 4·4	— 4·2	— 4·8	— 7·9	— 6·0
W. Shepherd.	222	2	—39·6 *	—24·4 *	—33·4 *	—35·5 *	—32·9 *	—28·3 *	+16·6 §	+18·0 †	+17·2	+16·0	+17·2	+18·6 †
Mean of readings of Ther- mometer placed near the Chronometers.	}	..	° 46·8	° 46·2	° 41·3	° 45·8	° 40·9	° 45·1	° 91·3	° 77·4	° 50·2	° 46·5	° 41·6	° 75·2

* During these weeks the Chronometers were exposed to the open air at a North window.
† During these weeks the Chronometer-room was heated by a stove, and the Chronometers were dispersed in the room.
§ During these weeks the Chronometers were placed in a tray above the stove.
The rate given by the first week of the trial is in every case omitted.

IN THE ORDER OF TIME.											NAME OF MAKER.	Number.
April 7—14 §	April 14—21	April 21—28	April 28— May 5	May 5—12	May 12—19	May 19—26 §	May 26— June 2 †	June 2—9	June 9—16	June 16—23		
-10.7	-5.5	-7.3	-8.3	-7.7	-12.6	-15.7	-9.1	-11.0	-10.4	-2.5	Effe.	662
-4.7	-4.5	-6.6	-6.8	-5.9	-9.4	-10.8	-1.8	-0.5	+0.1	+0.3	Poole	1242
+20.8	+12.7	+7.1	+9.3	+14.6	+14.0	+19.9	+17.0	+18.9	+16.3	+15.1	Loseby.	124
+0.1	+12.7	+16.3	+4.2	+6.8	+5.0	+1.3	+12.5	+13.6	+15.3	+14.7	Fletcher	1158
-61.6	-56.0	-56.4	-54.6	-54.4	-55.9	-61.0	-48.2	-49.6	-51.4	-52.4	Stoddart	772
-18.9	-7.5	-8.7	-9.4	-9.4	-11.6	-22.5	-8.6	-8.6	-2.9	-4.7	Dixon	360
+13.6	+19.1	+20.3	+23.6	+22.6	+23.1	+6.8	+21.0	+27.3	+30.8	+31.7	Baker.	1125
-13.6	+7.3	+7.2	+0.2	+2.1	-4.5	-16.8	-1.2	-0.6	-1.0	-0.6	Reid and Son	1092
-5.6	-6.5	-10.6	-6.4	-7.9	-10.9	-8.7	+1.9	+0.5	-1.1	-0.4	M'Gregor	1608
-22.3	-16.7	-18.3	-14.3	-13.0	-12.3	-33.3	-20.3	-20.4	-17.9	-13.4	Murray	685
-14.9	-0.8	-5.5	+0.1	-2.9	-2.0	-23.1	-3.0	-2.1	-2.5	-2.5	C. Frodsham	1962
-19.2	-7.3	-8.2	-3.9	-4.4	-3.5	-25.6	-7.5	-1.1	+1.8	+2.2	Appleton.	538
+2.8	-5.5	-11.8	-6.1	-7.4	-5.6	+3.5	+6.9	+4.4	+1.3	+3.5	Dent	2100
+36.1	+41.0	+41.2	+48.8	+48.9	+49.6	+32.7	+49.6	+56.9	+59.8	+63.0	Cotterell and Co.	2834
+33.4	+27.4	+21.9	+25.1	+25.6	+23.5	+26.9	+35.6	+37.8	+37.5	+37.6	Parkinson and Frodsham.	2593
-15.5	+0.6	0.0	-6.4	-4.4	-4.0	-13.6	-19.1	-21.1	-7.1	-10.8	Webb.	5128
-21.2	+1.6	+3.9	+1.6	+5.1	+2.0	-23.4	-7.1	-2.4	+2.0	+3.7	Hutton	188
-30.0	-4.6	-5.4	-10.1	-5.4	-11.4	-32.7	-19.0	-14.6	-10.1	-13.4	Lister and Son	506
-4.6	+2.4	+4.8	+12.6	+11.1	+17.0	-8.7	+6.2	+14.3	+14.8	+17.7	Norris and Campbell.	586
-36.5	-25.6	-26.3	-23.7	-22.9	-28.5	-42.6	-26.1	-22.1	-19.2	-18.7	Losada	1417
-36.5	-13.7	-10.7	-8.4	-9.3	-6.7	-33.0	-16.3	-4.3	+0.7	+0.5	Baker	1147
+5.6	+16.5	+17.3	+20.6	+18.6	+22.3	-0.6	+12.1	+21.0	+24.5	+25.5	Birchall.	378
-5.0	+1.3	+1.4	+11.7	+8.7	+12.6	-4.7	+8.5	+11.7	+12.7	+15.1	H. T. Hewitt	420
+20.0	+15.0	+14.8	+10.0	+12.2	+11.7	+28.9	+12.8	+6.4	+16.0	+15.0	Walker	20
-15.0	0.0	-4.7	-3.8	-0.5	-9.3	-22.8	-9.3	-3.8	-0.5	-2.0	Clark and Son.	1233
+17.5	-1.0	+1.1	-0.7	-0.3	-2.1	+23.4	-2.0	-9.2	-2.4	-4.7	Carter	535
-43.6	-22.7	-21.7	-16.7	-17.9	-16.6	-41.4	-25.2	-17.4	-13.2	-14.1	Hewitt.	1448
+24.2	+28.2	+32.4	+37.8	+41.1	+43.5	+32.4	+48.6	+40.3	+39.8	+42.4	Muirhead	1319
-36.7	-2.1	-0.1	-2.4	-1.3	-2.7	-36.5	-16.5	-6.1	+1.9	+0.1	Phillips	970
-34.9	-25.7	-16.5	-9.9	-6.9	-9.5	-50.1	-13.4	-19.6	-14.6	-13.0	Parkinson and Bouts.	646
+21.4 §	+25.3	+16.6	+15.1	+18.1	+9.7	+22.7 §	+23.5 †	+19.3	+23.8	+21.9	W. Shepherd.	222
88.0	48.4	46.6	56.5	53.2	56.7	91.4	83.3	69.8	59.3	62.5		

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RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY,

NAME OF MAKER.	Number.	Whether Pocket, 1, 2, or 8 Days.	(II.)—WEEKLY SUMS OF DAILY RATES											
			Feb. 10—17 *	Jan. 27— Feb. 3 *	March 24—31	Feb. 17—24 *	Feb. 3—10 *	Jan. 20—27 *	March 17—24	April 21—28	Jan. 13—20 *	Apr. 14—21	March 10—17	May 5—12
Eiffe	662	2	— 5.4	— 6.4	— 9.0	— 6.0	— 4.0	— 3.9	— 7.8	— 7.3	— 6.4	— 5.5	— 7.2	— 7.7
Poole	1242	2	— 15.0	— 12.8	— 3.8	— 9.3	— 9.6	— 14.4	— 0.8	— 6.6	— 17.1	— 4.5	— 3.4	— 5.9
Loseby	124	2	+ 5.6	+ 5.5	+ 10.9	+ 9.3	+ 7.0	+ 6.2	+ 10.5	+ 7.1	+ 3.6	+ 12.7	+ 11.7	+ 14.6
Fletcher	1158	2	+ 5.0	+ 1.1	+ 15.5	+ 5.5	+ 2.6	— 3.9	+ 11.6	+ 16.3	....	+ 12.7	+ 5.1	+ 6.8
Stoddart	772	8	— 68.9	— 69.4	— 61.9	— 59.2	— 66.0	— 65.9	— 59.0	— 56.4	— 60.1	— 56.0	— 57.4	— 54.4
Dixon	360	2	— 9.3	— 12.0	— 13.0	— 8.8	— 11.6	— 15.8	— 9.4	— 8.7	....	— 7.5	— 7.1	— 9.4
Baker	1125	2	+ 9.2	+ 7.6	+ 16.9	+ 11.6	+ 10.4	+ 10.1	+ 16.6	+ 20.3	+ 8.0	+ 19.1	+ 22.6	+ 22.6
Reid and Son	1092	2	— 7.7	— 6.2	+ 3.7	— 6.6	— 8.2	— 7.1	+ 3.0	+ 7.2	— 9.3	+ 7.3	+ 1.2	+ 2.1
M'Gregor	1608	2	— 24.9	— 26.2	— 6.3	— 24.5	— 26.7	— 22.4	— 6.9	— 10.6	....	— 6.5	— 6.9	— 7.9
Murray	685	1	— 19.9	— 16.9	— 22.3	— 13.3	— 14.0	— 15.9	— 19.1	— 18.3	— 13.1	— 16.7	— 22.8	— 13.0
C. Frodsham	1962	2	+ 2.4	+ 4.1	+ 2.9	— 0.3	+ 1.5	+ 3.6	+ 2.0	— 5.5	....	— 0.8	+ 2.7	— 2.9
Appleton	538	2	— 6.5	— 7.0	— 11.3	— 3.3	— 1.9	— 4.9	— 6.5	— 8.2	....	— 7.3	— 5.8	— 4.4
Dent	2100	2	— 19.2	— 18.9	— 13.6	— 26.3	— 18.2	— 20.5	— 12.3	— 11.8	— 17.5	— 5.5	— 13.5	— 7.4
Cotterell and Co.	$\frac{0.41}{2.834}$	2	+ 20.2	+ 21.1	+ 31.0	+ 25.1	+ 25.0	+ 26.2	+ 37.4	+ 41.2	....	+ 41.0	+ 36.7	+ 48.9
Parkinson and Frodsham ..	2593	2	— 12.9	— 10.3	+ 17.5	— 2.9	— 6.0	— 8.0	+ 26.5	+ 21.9	— 2.3	+ 27.4	+ 25.2	+ 25.6
Webb	5128	2	+ 13.7	+ 16.0	+ 5.9	+ 11.8	+ 11.0	+ 9.2	+ 2.0	0.0	+ 9.8	+ 0.6	— 3.6	— 4.4
Hutton	188	2	+ 0.7	+ 2.7	+ 8.0	+ 2.1	+ 2.4	+ 2.5	+ 6.4	+ 3.9	+ 3.9	+ 1.6	+ 0.5	+ 5.1
Lister and Son	506	2	— 19.4	— 18.9	— 4.4	— 17.5	— 18.0	— 17.3	— 6.8	— 5.4	— 19.7	— 4.6	— 11.3	— 5.4
Norris and Campbell	586	2	— 4.9	— 4.9	— 1.3	+ 3.1	+ 2.5	+ 0.6	+ 2.1	+ 4.8	+ 3.1	+ 2.4	+ 1.2	+ 11.1
Losada	1417	2	— 49.5	— 41.3	— 33.2	— 42.3	— 42.5	— 32.0	— 27.5	— 26.3	— 30.1	— 25.6	— 27.2	— 22.9
Baker	1147	8	....	....	— 26.5	....	....	....	....	— 10.7	....	— 13.7	....	— 9.3
Birchall	378	2	+ 3.1	+ 3.5	+ 12.3	+ 8.5	+ 3.5	+ 5.0	+ 13.9	+ 17.3	....	+ 16.5	+ 13.4	+ 18.6
H. T. Hewitt	420	2	— 13.4	— 12.4	— 9.1	— 6.6	— 7.5	— 9.9	— 6.6	+ 1.4	— 8.1	+ 1.3	— 4.8	+ 8.7
Walker	20	2	— 3.4	— 1.9	+ 12.9	— 3.6	— 1.5	— 2.9	+ 11.5	+ 14.8	....	+ 15.0	+ 5.7	+ 12.2
Clark and Son	1233	2	— 26.8	— 26.8	— 6.2	— 19.5	— 23.6	— 19.5	— 1.5	— 4.7	— 21.0	0.0	— 1.4	— 0.5
Carter	535	2	— 8.3	— 7.9	— 3.0	— 2.8	— 3.5	— 6.9	— 0.5	+ 1.1	....	— 1.0	— 3.9	— 0.3
Hewitt	1448	2	— 33.4	— 31.3	— 26.9	— 27.3	— 30.0	— 26.5	— 25.0	— 21.7	— 25.6	— 22.7	— 26.3	— 17.9
Muirhead	1319	2	+ 36.6	+ 30.4	+ 34.0	+ 43.6	+ 36.3	+ 26.8	+ 29.4	+ 32.4	+ 23.7	+ 28.2	+ 23.2	+ 41.1
Phillips	970	2	— 5.8	— 6.9	— 3.5	— 4.6	— 8.0	— 9.4	— 6.0	— 0.1	....	— 2.1	— 8.4	— 1.3
Parkinson and Bouts	646	2	— 5.9	— 2.1	— 7.9	— 1.8	— 1.3	+ 1.6	— 4.8	— 16.5	....	— 25.7	— 4.2	— 6.9
W. Shepherd	222	2	— 32.9 *	— 33.4 *	+ 17.2	— 28.3 *	— 35.5 *	— 24.4 *	+ 16.0	+ 16.6	— 39.6 *	+ 25.3	+ 17.2	+ 18.1
Mean of readings of Ther- mometer placed near the Chronometers	}	..	0 40.9	0 41.3	0 41.6	0 45.1	0 45.8	0 46.2	0 46.5	0 46.6	0 46.8	0 48.4	0 50.2	0 53.2

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The rate given by the first week of the trial is in every case omitted.

IN THE ORDER OF TEMPERATURE.											NAME OF MAKER.	Number.
April 28— May 5	May 12—19	June 9—16	June 16—23	June 2—9	Mar. 31— April 7 †	March 3—10 †	May 26— June 2 †	April 7—14 §	Feb. 24— Mar. 3 §	May 19—26 §		
— 8.3	—12.6	—10.4	— 2.5	—11.0	— 6.3	— 3.7	— 9.1	—10.7	—14.0	—15.7	Effe.	662
— 6.8	— 9.4	+ 0.1	+ 0.3	— 0.5	— 0.9	+ 0.2	— 1.8	— 4.7	— 7.1	—10.8	Poole.	1242
+ 9.3	+14.0	+16.3	+15.1	+18.9	+13.4	+20.9	+17.0	+20.8	+16.1	+19.9	Loseby.	124
+ 4.2	+ 5.0	+15.3	+14.7	+13.6	+ 6.8	+ 6.8	+12.5	+ 0.1	— 3.0	+ 1.3	Fletcher.	1158
—54.6	—55.9	—51.4	—52.4	—49.6	—55.3	—55.2	—48.2	—61.6	—63.2	—61.0	Stoddart.	772
— 9.4	—11.6	— 2.9	— 4.7	— 8.6	— 9.3	— 6.0	— 8.6	—18.9	—17.7	—22.5	Dixon.	360
+23.6	+23.1	+30.8	+31.7	+27.3	+20.7	+22.1	+21.0	+13.6	+ 4.6	+ 6.8	Baker.	1125
+ 0.2	— 4.5	— 1.0	— 0.6	— 0.6	+ 1.7	— 0.5	— 1.2	—13.6	—15.9	—16.8	Reid and Son.	1092
— 6.4	—10.9	— 1.1	— 0.4	+ 0.5	+ 0.6	+ 3.9	+ 1.9	— 5.6	— 6.6	— 8.7	M'Gregor.	1608
—14.3	—12.3	—17.9	—13.4	—20.4	—13.6	—23.2	—20.3	—22.3	—35.3	—33.3	Murray.	685
+ 0.1	— 2.0	— 2.5	— 2.5	— 2.1	+ 6.4	+ 4.5	— 3.0	—14.9	—11.2	—23.1	C. Frodsham.	1962
— 3.9	— 3.5	+ 1.8	+ 2.2	— 1.1	— 4.9	— 3.2	— 7.5	—19.2	—25.6	—25.6	Appleton.	538
— 6.1	— 5.6	+ 1.3	+ 3.5	+ 4.4	— 5.6	— 0.7	+ 6.9	+ 2.8	— 6.2	+ 3.5	Dent.	2100
+48.8	+49.6	+59.8	+63.0	+56.9	+43.8	+37.5	+49.6	+36.1	+22.7	+32.7	Cotterell and Co.	2334
+25.1	+23.5	+37.5	+37.6	+37.8	+32.9	+27.3	+35.6	+33.4	+11.9	+26.9	Parkinson and Frodsham.	2593
— 6.4	— 4.0	— 7.1	—10.8	—21.1	—15.9	—22.9	—19.1	—15.5	—10.8	—13.6	Webb.	5128
+ 1.6	+ 2.0	+ 2.0	+ 3.7	— 2.4	— 3.3	— 8.3	— 7.1	—21.2	—24.6	—23.4	Hutton.	188
—10.1	—11.4	—10.1	—13.4	—14.6	—19.5	—23.4	—19.0	—30.0	—40.3	—32.7	Lister and Son.	506
+12.6	+17.0	+14.8	+17.7	+14.3	+ 8.8	+ 1.7	+ 6.2	— 4.6	—20.1	— 8.7	Norris and Campbell.	586
—23.7	—28.5	—19.2	—18.7	—22.1	—25.1	—25.6	—26.1	—36.5	—53.2	—42.6	Losada.	1417
— 8.4	— 6.7	+ 0.7	+ 0.5	— 4.3	—23.2	....	—16.3	—36.5	....	—33.0	Baker.	1147
+20.6	+22.3	+24.5	+25.5	+21.0	+16.9	+12.4	+12.1	+ 5.6	—14.5	— 0.6	Birchall.	378
+11.7	+12.6	+12.7	+15.1	+11.7	+ 3.4	— 4.7	+ 8.5	— 5.0	—29.9	— 4.7	H. T. Hewitt.	420
+10.0	+11.7	+16.0	+15.0	+ 6.4	— 1.1	— 8.7	+12.8	+20.0	+19.6	+28.9	Walker.	20
— 3.8	— 9.3	— 0.5	— 2.0	— 3.8	— 4.0	— 4.5	— 9.3	—15.0	—37.6	—22.8	Clark and Son.	1233
— 0.7	— 2.1	— 2.4	— 4.7	— 9.2	—10.7	—16.0	— 2.0	+17.5	+16.6	+23.4	Carter.	535
—16.7	—16.6	—13.2	—14.1	—17.4	—26.1	—34.7	—25.2	—43.6	—57.8	—41.4	Hewitt.	1448
+37.8	+43.5	+39.8	+42.4	+40.3	+34.7	+20.8	+48.6	+24.2	+ 9.4	+32.4	Muirhead.	1319
— 2.4	— 2.7	+ 1.9	+ 0.1	— 6.1	—16.5	—18.1	—16.5	—36.7	—39.0	—36.5	Phillips.	970
— 9.9	— 9.5	—14.6	—13.0	—19.6	— 6.0	— 4.4	—13.4	—34.9	—24.2	—50.1	Parkinson and Bouts.	646
+15.1	+ 9.7	+23.8	+21.9	+19.3	+18.6 †	+18.0 †	+23.5 †	+21.4 §	+16.6 §	+22.7 §	W. Shepherd.	222
° 56.5	° 56.7	° 59.3	° 62.5	° 69.8	° 75.2	° 77.4	° 83.3	° 88.0	° 91.3	° 91.4		

* During these weeks the Chronometers were exposed to the open air at a North window.

† During these weeks the Chronometer-room was heated by a stove, and the Chronometers were dispersed in the room.

§ During these weeks the Chronometers were placed in a tray above the stove.

The rate given by the first week of the trial is in every case omitted.

RATES OF CHRONOMETERS ON TRIAL FOR PURCHASE BY THE ADMIRALTY,

NAME OF MAKER.	Number.	Whether Pocket, 1, 2, or 8 Days.	(III.)—ABSTRACT OF THE PRINCIPAL				
			First Day of First Week of Rating.	Last Day of Last Week of Rating.	Number of Weeks.	Least Weekly Sum.	In what Week.
Eiffe.....	662	2	January 13	June 23	23	— 15·7	May 19 to 26 §
Poole.....	1242	2	January 13	June 23	23	— 17·1	January 13 to 20 *
Loseby.....	124	2	January 13	June 23	23	+ 3·6	January 13 to 20 *
Fletcher.....	1158	2	January 20	June 23	22	— 3·9	January 20 to 27 *
Stoddart.....	772	8	January 13	June 23	23	— 69·4	January 27 to February 3 *
Dixon.....	360	2	January 20	June 23	22	— 22·5	May 19 to 26 §
Baker.....	1125	2	January 13	June 23	23	+ 4·6	February 24 to March 3 §
Reid and Son.....	1092	2	January 13	June 23	23	— 16·8	May 19 to 26 §
M'Gregor.....	1608	2	January 20	June 23	22	— 26·7	February 3 to 10 *
Murray.....	685	1	January 13	June 23	23	— 35·3	February 24 to March 3 §
C. Frodsham.....	1962	2	January 20	June 23	22	— 23·1	May 19 to 26 §
Appleton.....	538	2	January 20	June 23	22	— 25·6	{ February 24 to March 3 § May 19 to 26 § }
Dent.....	2100	2	January 13	June 23	23	— 26·3	February 17 to 24 *
Cotterell and Co.....	2593	2	January 20	June 23	22	+ 20·2	February 10 to 17 *
Parkinson and Frodsham.....	5128	2	January 13	June 23	23	— 12·9	February 10 to 17 *
Webb.....	188	2	January 13	June 23	23	— 22·9	March 3 to 10 †
Hutton.....	506	2	January 13	June 23	23	— 24·6	February 24 to March 3 §
Lister and Son.....	586	2	January 13	June 23	23	— 40·3	February 24 to March 3 §
Norris and Campbell.....	1417	2	January 13	June 23	23	— 20·1	February 24 to March 3 §
Losada.....	1147	8	March 24	June 23	13	— 53·2	February 24 to March 3 §
Baker.....	378	2	January 20	June 23	22	— 36·5	April 7 to 14 §
Birchall.....	420	2	January 13	June 23	23	— 14·5	February 24 to March 3 §
H. T. Hewitt.....	20	2	January 20	June 23	22	— 29·9	February 24 to March 3 §
Walker.....	1233	2	January 13	June 23	23	— 8·7	March 3 to 10 †
Clark and Son.....	535	2	January 20	June 23	22	— 37·6	February 24 to March 3 §
Carter.....	1448	2	January 13	June 23	23	— 16·0	March 3 to 10 †
Hewitt.....	1319	2	January 13	June 23	23	— 57·8	February 24 to March 3 §
Muirhead.....	970	2	January 20	June 23	22	+ 9·4	February 24 to March 3 §
Phillips.....	646	2	January 20	June 23	22	— 39·0	February 24 to March 3 §
Parkinson and Bouts.....	222	2	January 13	June 23	23	— 50·1	May 19 to 26 §
W. Shepherd.....			January 13	June 23	23	— 39·6	January 13 to 20 *

* During these weeks the Chronometers were exposed to the open air at a North window.

† During these weeks the Chronometer-room was heated by a stove, and the Chronometers were dispersed in the room.

§ During these weeks the Chronometers were placed in a tray above the stove.

The rate given by the first week of the trial is in every case omitted.

The order of arrangement of the Chronometers in these Tables is determined solely by consideration of their irregularities of rate, as expressed in the columns "Difference between Greatest and Least" and "Greatest Difference between one Week and the next," without any regard to the length of trial.

AT THE ROYAL OBSERVATORY, GREENWICH, 1849.

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CHANGES OF RATE.					NAME OF M A K E R.	Number.
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.		
- 2.5	June 16 to 23	13.2	10.3	§ March 3 †	Eiffe.....	662
+ 0.3	June 16 to 23	17.4	9.0	§ May 26 †	Poole.....	1242
+ 20.9	March 3 to 10 †	17.3	9.2	† March 10	Loseby	124
+ 16.3	April 21 to 28	20.2	12.6	§ April 14	Fletcher.....	1158
- 48.2	May 26 to June 2 †	21.2	12.8	§ May 26 †	Stoddart	772
- 2.9	June 9 to 16	19.6	13.9	§ May 26 †	Dixon	360
+ 31.7	June 16 to 23	27.1	17.5	§ March 3 †	Baker	1125
+ 7.3	April 14 to 21	24.1	20.9	§ April 14	Reid and Son	1092
+ 3.9	March 3 to 10 †	30.6	17.9	* February 24 §	M'Gregor.....	1608
- 12.3	May 12 to 19	23.0	22.0	* February 24 §	Murray	685
+ 6.4	March 31 to April 7 †	29.5	21.3	† April 7 §	C. Frodsham.....	1962
+ 2.2	June 16 to 23	27.8	22.4	§ March 3 †	Appleton.....	538
+ 6.9	May 26 to June 2 †	33.2	20.1	* February 24 §	Dent	2100
+ 63.0	June 16 to 23	42.8	16.9	{ May 19 § } { § May 26 † } { § March 3 † } { § March 31 † }	Cotterell and Co.....	2593
+ 37.8	June 2 to 9	50.7	15.4	{ § March 3 † } { § March 31 † }	Parkinson and Frodsham	2593
+ 16.0	January 27 to February 3 *	38.9	22.6	* February 24 §	Webb.....	5128
+ 8.0	March 24 to 31	32.6	26.7	§ March 3 †	Hutton	188
- 4.4	March 24 to 31	35.9	25.4	§ April 14	Lister and Son	506
+ 17.7	June 16 to 23	37.8	25.7	May 19 §	Norris and Campbell.....	586
- 18.7	June 16 to 23	34.5	27.6	§ March 3 †	Losada	1417
+ 0.7	June 9 to 16	37.2	26.3	May 19 §	Baker	1147
+ 25.5	June 16 to 23	40.0	26.9	§ March 3 †	Birchall.....	378
+ 15.1	June 16 to 23	45.0	25.2	§ March 3 †	H. T. Hewitt.....	420
+ 28.9	May 19 to 26 §	37.6	28.3	§ March 3 †	Walker	20
0.0	April 14 to 21	37.6	33.1	§ March 3 †	Clark and Son.....	1233
+ 23.4	May 19 to 26 §	39.4	32.6	§ March 3 †	Carter	535
- 13.2	June 9 to 16	44.6	30.5	* February 24 §	Hewitt.....	1448
+ 48.6	May 26 to June 2 †	39.2	34.2	* February 24 §	Muirhead	1319
+ 1.9	June 9 to 16	40.9	34.6	§ April 14	Phillips	970
+ 1.6	January 20 to 27 *	51.7	40.6	May 19 §	Parkinson and Bouts	646
+ 25.3	April 14 to 21	64.9	44.9	* February 24 §	W. Shepherd	222

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