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RATES OF DECK WATCHES

ON TRIAL

FOR PURCHASE BY THE BOARD OF ADMIRALTY,

AT THE

ROYAL OBSERVATORY, GREENWICH.

FROM 1901 OCTOBER 26 TO 1902 FEBRUARY 15.

RATES OF DECK WATCHES ON TRIAL FOR PURCHASE BY THE ADMIRALTY AT THE

ROYAL OBSERVATORY, GREENWICH, FROM 1901 OCTOBER 26 TO 1902 FEBRUARY 15.

(1) WEEKLY RATES IN ORDER OF TIME.

NAME	MAKER	No.	Oct. 26 to Nov. 2.	Nov. 2-9.	Nov. 9-16.	Nov. 16-23.	Nov. 23-30.	Nov. 30 to Dec. 7.	Dec. 7-14.	Dec. 14-18.	Dec. 18-21.	Dec. 21-24.	Dec. 24-28.	Dec. 28 to Jan. 4.
Watch Horizontal. Dial up.														
Watch Vertical. Pendant up.														
Watch Vertical. Pendant right.														
Watch Vertical. Pendant left.														
Watch Vertical. Pendant up.														
Watch Horizontal. Dial up.														
J. Player and Son, Ltd.	803238	303238	+ 37.1	+ 37.4	+ 38.5	+ 37.9	+ 37.9	+ 38.1	+ 38.9	+ 38.7	+ 38.7	+ 38.7	+ 38.7	+ 38.7
Fremont and Co.	34670	34670	+ 16.1	+ 16.4	+ 16.4	+ 16.4	+ 16.4	+ 16.4	+ 16.4	+ 16.4	+ 16.4	+ 16.4	+ 16.4	+ 16.4
J. White and Son.	34570	34570	+ 17.1	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0	+ 17.0
Sewell	34570	34570	+ 4.0	+ 3.2	+ 5.0	+ 2.1	+ 2.0	+ 2.0	+ 2.0	+ 2.0	+ 2.0	+ 2.0	+ 2.0	+ 2.0
Mackay and Chisholm	50389	50389	+ 4.1	+ 7.1	+ 5.8	+ 7.8	+ 2.4	+ 14.9	+ 7.9	+ 11.7	+ 4.2	+ 0.9	+ 14.4	+ 8.6
L. Hall	2309	2309	+ 6.0	+ 10.0	+ 7.8	+ 6.8	+ 5.8	+ 10.1	+ 8.6	+ 1.2	+ 21.2	+ 18.2	+ 9.3	+ 12.9
Birch and Gaydon	2445	2445	+ 5.9	+ 6.4	+ 5.4	+ 8.0	+ 12.7	+ 5.9	+ 17.8	+ 0.0	+ 0.0	+ 28.9	+ 5.4	+ 1.8
Lindqvist	0108	0108	+ 16.2	+ 13.8	+ 17.9	+ 18.9	+ 17.2	+ 18.6	+ 17.9	+ 0.7	+ 10.7	+ 2.4	+ 4.6	+ 16.8
Erhardt	100285	100285	+ 2.1	+ 27.1	+ 25.7	+ 21.8	+ 17.4	+ 19.0	+ 18.7	+ 6.7	+ 22.6	+ 9.0	+ 18.7	+ 38.6
Chandler	56487	56487	+ 8.4	+ 5.6	+ 8.0	+ 5.6	+ 11.2	+ 10.7	+ 8.1	+ 11.4	+ 10.8	+ 6.3	+ 18.6	+ 16.6
Klean and Co.	62438	62438	+ 7.4	+ 7.8	+ 5.4	+ 6.8	+ 12.4	+ 5.9	+ 8.2	+ 9.0	+ 15.6	+ 6.1	+ 0.9	+ 15.9
J. White and Son.	94572	94572	+ 12.8	+ 9.0	+ 14.0	+ 14.1	+ 12.4	+ 15.4	+ 23.8	+ 28.0	+ 29.3	+ 29.6	+ 29.3	+ 29.4
H. White and Co.	1559	1559	+ 8.3	+ 8.3	+ 9.4	+ 15.8	+ 12.9	+ 12.2	+ 5.8	+ 18.0	+ 6.8	+ 2.8	+ 16.8	+ 7.9
Wright and Crispin	9295	9295	+ 20.8	+ 1.8	+ 1.1	+ 15.8	+ 12.3	+ 12.0	+ 6.8	+ 17.4	+ 6.8	+ 1.7	+ 10.9	+ 2.2
H. White and Co.	1561	1561	+ 0.2	+ 1.8	+ 1.1	+ 8.7	+ 4.0	+ 2.4	+ 4.4	+ 27.7	+ 42.0	+ 60.6	+ 28.6	+ 2.2
L. Hall	1790	1790	+ 18.4	+ 17.8	+ 20.1	+ 19.3	+ 17.7	+ 23.0	+ 15.6	+ 11.8	+ 6.8	+ 6.6	+ 13.8	+ 13.0
H. White and Co.	1560	1560	+ 11.0	+ 11.0	+ 11.0	+ 14.9	+ 14.8	+ 14.8	+ 14.8	+ 14.8	+ 14.8	+ 14.8	+ 14.8	+ 14.8
Hillbrand	2195	2195	+ 36.0	+ 34.0	+ 36.8	+ 36.8	+ 36.8	+ 36.8	+ 36.8	+ 36.8	+ 36.8	+ 36.8	+ 36.8	+ 36.8
J. White and Son.	30230	30230	+ 2.0	+ 2.5	+ 1.4	+ 2.8	+ 2.2	+ 1.4	+ 7.7	+ 35.4	+ 28.5	+ 28.1	+ 32.4	+ 5.6
H. White and Co.	1559	1559	+ 2.4	+ 1.6	+ 0.3	+ 3.4	+ 2.4	+ 2.8	+ 9.6	+ 13.8	+ 10.7	+ 22.7	+ 12.1	+ 9.5
Miles	1361	1361	+ 28.9	+ 28.0	+ 29.7	+ 28.5	+ 28.8	+ 28.0	+ 10.8	+ 10.8	+ 10.8	+ 10.8	+ 10.8	+ 10.8
S. Smith and Son	2195	2195	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3	+ 8.3
Bolton Smith	307	307	+ 27.6	+ 26.8	+ 27.0	+ 28.1	+ 40.3	+ 38.3	+ 39.1	+ 37.9	+ 39.4	+ 44.8	+ 43.2	+ 43.1
Hillbrand	2195	2195	+ 35.0	+ 35.8	+ 37.1	+ 38.9	+ 38.1	+ 38.8	+ 41.1	+ 50.7	+ 51.4	+ 50.7	+ 51.4	+ 51.4
Roberts	20799	20799	+ 20.2	+ 24.1	+ 23.0	+ 25.4	+ 22.8	+ 26.0	+ 26.9	+ 15.8	+ 11.4	+ 4.4	+ 8.3	+ 21.1
Thomson	1057	1057	+ 6.9	+ 18.9	+ 7.9	+ 11.9	+ 13.9	+ 13.9	+ 13.9	+ 13.9	+ 13.9	+ 13.9	+ 13.9	+ 13.9
L. Hall	1794	1794	+ 12.8	+ 14.1	+ 15.8	+ 14.4	+ 13.7	+ 13.4	+ 22.8	+ 60.7	+ 21.5	+ 14.5	+ 56.2	+ 23.5
Raid and Son	38389	38389	+ 17.1	+ 2.2	+ 22.4	+ 2.0	+ 25.8	+ 22.8	+ 32.9	+ 32.9	+ 32.9	+ 32.9	+ 32.9	+ 32.9
S. Smith and Son	18389	18389	+ 1.1	+ 1.4	+ 1.6	+ 1.4	+ 2.5	+ 7.3	+ 19.9	+ 6.0	+ 9.1	+ 12.6	+ 2.8	+ 18.8
Mean Weekly Temperature			56.1	58.5	58.4	52.8	52.0	58.8	81.7	78.4	78.9	78.9	78.9	88.8
Extremes of Temperature as shown by the Self-Registering Thermometer			52.3-60.1	46.8-58.9	48.5-57.6	45.7-55.5	45.8-58.5	51.1-59.1	74.7-86.4	75.0-81.6	76.6-86.7	78.7-87.2	78.7-87.2	88.8

* The Weekly Rates have been computed from the rates for three days. + The Weekly Rates have been computed from the rates for four days. During the period Dec. 7 to Jan. 4 the watches were placed in an oven heated by jets of gas, the temperature being regulated by Kullberg's automatic governor, which controls the supply of gas. The gas flames are exterior to the chamber, into which none of the injurious products of combustion can enter. H. White and Co. 1561. This watch was found stopped on the day after having deposited on trial. A new mainspring was supplied by the maker.

(3) ABSTRACT OF THE PRINCIPAL CHANGES OF RATES.

Jan. 4-11.	Jan. 11-18.	Jan. 18-25.	Jan. 25 to Feb. 1.	Feb. 1-8.	Feb. 8-15.	Difference between greatest and least Weekly Rates. Dial up.	Difference between greatest and least Weekly Rates. Dial up.	Difference between greatest and least Weekly Rates. Dial up.	Difference of Weekly Rates. Pendant up - Dial up. a.	Difference of Weekly Rates. Pendant right Dial up. d.	Difference of Weekly Rates. Pendant left Dial up. e.	a + b + c + d + e + f	NAME OF MAKER.	No.
+ 9.9	+ 20.2	+ 38.9	+ 38.8	+ 38.6	+ 38.9	9.8	6.1	5.9	+ 0.3	+ 0.3	+ 0.3	+ 0.4	J. Player & Son, Ltd.	30238
+ 15.2	+ 46.2	+ 46.2	+ 44.1	+ 44.1	+ 44.1	11.0	11.0	11.0	+ 0.5	+ 0.5	+ 0.5	+ 0.5	Birch and Gaydon	2445
+ 50.2	+ 18.3	+ 17.4	+ 11.9	+ 14.0	+ 13.5	10.4	5.5	+ 8.4	+ 20.4	+ 8.0	+ 21.9	+ 8.0	J. White and Son.	34570
+ 5.0	+ 3.2	+ 7.0	+ 1.3	+ 4.9	+ 6.0	11.9	9.1	+ 2.6	+ 15.0	+ 2.2	+ 21.9	+ 2.2	Sewell	34570
+ 7.8	+ 3.1	+ 6.5	+ 6.7	+ 3.4	+ 2.8	12.1	7.0	+ 7.3	+ 10.0	+ 4.9	+ 22.9	+ 4.9	Mackay & Chisholm	50389
+ 11.9	+ 9.0	+ 15.0	+ 11.8	+ 8.2	+ 9.5	9.2	6.0	+ 0.6	+ 0.6	+ 0.6	+ 0.6	+ 0.6	L. Hall	2309
+ 2.2	+ 7.0	+ 0.8	+ 6.7	+ 12.3	+ 10.8	14.5	6.8	+ 0.5	+ 0.5	+ 0.5	+ 0.5	+ 0.5	Birch and Gaydon	2445
+ 12.6	+ 13.2	+ 1.2	+ 21.4	+ 23.5	+ 24.9	12.8	4.2	+ 19.4	+ 28.1	+ 12.0	+ 37.1	+ 12.0	Lindqvist	0108
+ 3.8	+ 0.6	+ 7.9	+ 11.3	+ 22.6	+ 14.3	12.8	8.8	+ 0.4	+ 0.4	+ 0.4	+ 0.4	+ 0.4	Erhardt	100285
+ 8.5	+ 0.6	+ 7.9	+ 0.9	+ 0.8	+ 0.6	17.1	9.1	+ 6.0	+ 2.2	+ 8.8	+ 8.8	+ 8.8	Chandler	56487
+ 16.2	+ 19.2	+ 22.0	+ 17.3	+ 12.5	+ 13.0	18.5	4.8	+ 13.2	+ 27.7	+ 9.0	+ 49.8	+ 9.0	Klean and Co.	62438
+ 24.8	+ 23.6	+ 23.5	+ 23.6	+ 19.5	+ 18.4	20.4	7.9	+ 6.3	+ 6.1	+ 1.1	+ 40.5	+ 6.1	J. White and Son.	94572
+ 11.1	+ 9.8	+ 11.4	+ 14.4	+ 18.4	+ 17.1	12.6	6.4	+ 7.8	+ 43.7	+ 82.6	+ 41.9	+ 82.6	H. White and Co.	1559
+ 1.7	+ 2.8	+ 0.0	+ 1.8	+ 4.9	+ 2.7	6.6	4.2	+ 29.0	+ 38.7	+ 47.2	+ 43.8	+ 47.2	Wright & Crispin	9295
+ 27.1	+ 25.2	+ 32.8	+ 28.0	+ 29.8	+ 29.8	16.7	9.1	+ 4.1	+ 23.4	+ 22.4	+ 44.8	+ 22.4	L. Hall	1790
+ 9.1	+ 12.8	+ 16.8	+ 16.8	+ 21.9	+ 21.7	14.1	6.5	+ 13.0	+ 69.6	+ 7.1	+ 46.4	+ 7.1	H. White and Co.	1560
+ 19.1	+ 21.6	+ 18.1	+ 18.1	+ 14.7	+ 14.7	19.0	10.8	+ 7.0	+ 6.4	+ 7.7	+ 46.7	+ 7.7	Hillbrand	2195
+ 64.2	+ 67.7	+ 61.6	+ 68.2	+ 64.7	+ 64.7	27.9	8.8	+ 2.2	+ 2.2	+ 2.2	+ 47.8	+ 2.2	J. Player & Son, Ltd.	30230
+ 0.9	+ 1.8	+ 1.8	+ 1.8	+ 7.0	+ 6.7	14.7	6.8	+ 27.2	+ 21.8	+ 19.4	+ 47.8	+ 19.4		
+ 2.5	+ 0.6	+ 3.2	+ 0.2	+ 8.5	+ 1.8	13.1	12.4	+ 2.9	+ 20.8	+ 42.3	+ 49.8	+ 42.3	H. White and Co.	1559
+ 44.8	+ 48.0	+ 31.5	+ 37.9	+ 31.6	+ 31.6	34.7	8.7	+ 8.8	+ 6.4	+ 4.3	+ 51.2	+ 6.4	S. Smith and Son	2195
+ 12.0	+ 16.1	+ 21.0	+ 23.0	+ 18.7	+ 20.4	18.0	4.9	+ 24.4	+ 48.2	+ 26.2	+ 52.1	+ 26.2	Bolton Smith	307
+ 57.6	+ 49.2	+ 68.0	+ 57.8	+ 69.0	+ 68.6	38.8	8.4	+ 1.8	+ 2.7	+ 2.2	+ 53.6	+ 2.7	Hillbrand	2195
				+ 55.6	+ 55.6	22.4	9.3	+ 13.9	+ 9.8		+ 56.4			
+ 10.6	+ 20.9	+ 12.4	+ 9.8	+ 12.8	+ 11.6	17.0	8.5	+ 30.2	+ 35.4	+ 19.6	+ 58.8	+ 19.6	Roberts	20799
+ 25.7	+ 33.4	+ 31.0	+ 37.9	+ 31.5	+ 31.5	40.7	8.7	+ 8.8	+ 6.4	+ 4.3	+ 105.7	+ 6.4	Thomson	1057
+ 23.1	+ 24.8	+ 25.2	+ 25.2	+ 23.1	+ 23.0	19.7	7.4	+ 31.1	+ 48.9	+ 12.9	+ 69.4	+ 12.9	L. Hall	1794
+ 5.9	+ 38.8	+ 38.8	+ 38.8	+ 38.8	+ 38.8	21.8	11.2	+ 16.1	+ 28.2	+ 40.3	+ 38.9	+ 40.3	Raid and Son	38389
+ 7.9	+ 6.7	+ 19.3	+ 1.3	+ 4.4	+ 6.0	21.8	11.2	+ 20.0	+ 38.7	+ 30.2	+ 64.7	+ 30.2	S. Smith and Son	18389
The sign + indicates a gaining rate.														
The quantities a, b, c, d, e, in the formula a + b + c + d + e + f, are taken numerically, without regard to sign.														
51.4-55.7	47.5-57.6	48.0-50.8	58.5-49.6	86.7-49.6	87.6-48.0									

Only those watches have been included in this list for which the trial number did not exceed 100.

(2) ABSTRACT OF THE PRINCIPAL CHANGES OF RATES.

Jan. 4-11.	Jan. 11-18.	Jan. 18-25.	Jan. 25 to Feb. 1.	Feb. 1-8.	Feb. 8-15.	Difference between greatest and least Weekly Rates.	Greatest Difference between one week and the next.	Difference of Weekly Rates.			Trial Number.	NAME or MAKER.		No.
Watch Horizontal. Dial up.						Dial up. a.	Dial up. b.	Pendant -Dial up. c.	Pendant right -Dial up. d.	Pendant left -Dial up. e.	$a + b + c + d + e$			
- 8.1	- 14.2	- 6.1	- 18.9	- 25.8	- 29.8	37.4	12.8	+ 2.1	- 0.6	+ 4.7	65.0	Newson and Co.	14588	
- 5.2	- 5.2	- 5.2	- 5.2	- 5.2	- 5.2	21.8	18.9	- 1.8	- 2.1	- 1.8	65.0	Richardson	14589	
+ 25.1	+ 3.7	+ 26.8	+ 31.8	+ 25.2	+ 24.4	20.1	11.0	+ 21.6	+ 20.8	+ 24.0	65.4	Newson and Co.	18143	
- 0.8	- 10.7	- 0.1	- 0.1	- 4.5	- 2.9	20.9	15.8	+ 11.7	- 21.8	- 10.1	65.7	W. Hall	13084	
+ 15.0	+ 25.2	+ 31.1	+ 3.2	+ 9.2	+ 7.2	39.8	11.3	+ 3.8	- 2.9	- 9.8	68.3	Wais & McCulloch	13085	
+ 11.2	+ 28.7	+ 22.4	+ 7.7	+ 3.8	+ 6.8	33.6	15.6	+ 2.4	+ 1.2	+ 3.1	68.4	Wais & McCulloch	3578	
- 14.8	- 15.8	- 15.8	- 15.8	- 15.8	- 15.8	16.0	1.0	+ 1.0	+ 1.0	+ 3.0	68.4	Wais & McCulloch	3579	
- 9.3	- 12.0	- 14.6	- 14.9	- 19.3	- 18.2	11.1	4.4	- 53.3	- 64.8	- 65.7	68.4	Wright & Craighead	1723	
+ 17.4	+ 15.8	+ 17.7	+ 18.4	+ 16.3	+ 20.9	37.7	16.8	+ 1.8	- 1.8	- 19.6	69.1	W. Hall	13086	
+ 9.3	+ 5.2	+ 14.6	+ 9.3	+ 7.6	+ 5.2	19.9								
+ 5.2	+ 2.6	+ 9.5	+ 8.8	+ 6.8	+ 7.1	15.4	14.9	+ 31.9	+ 6.6	- 25.8	69.4	Bannister	1714	
- 1.4	- 7.4	- 1.4	- 1.4	- 8.1	- 8.1	16.9	16.9	- 1.9	- 1.9	- 16.1	69.4	Mann	6288	
+ 25.1	+ 19.7	+ 24.8	+ 22.9	+ 20.2	+ 22.9	23.5	18.8	- 5.9	- 30.1	- 1.1	70.8	Khan and Co.	6289	
- 5.2	- 4.8	- 4.8	- 2.9	- 7.9	- 7.9	16.8	16.8	- 1.9	- 30.8	- 30.8	71.1	W. Hall	13087	
+ 9.4	+ 4.8	+ 4.3	1.3	5.3	5.3	21.5	15.3	- 6.9	- 32.8	- 38.4	72.5	W. Hall	13088	
- 1.4	- 4.9	- 4.6	- 5.9	- 7.0	- 10.2	22.4	16.7	+ 12.8	- 38.5	- 25.2	72.5	J. White and Sons	3580	
- 15.8	- 15.8	- 15.8	- 15.8	- 15.8	- 15.8	19.8	18.2	+ 24.0	- 23.8	- 23.8	72.9	J. White and Sons	3581	
- 13.1	- 49.0	- 14.1	- 18.9	- 23.4	- 25.2	28.3	14.2	- 10.6	- 27.7	- 20.0	73.1	Freidlander	2621	
+ 45.0	- 45.0	- 45.0	- 45.0	- 45.0	- 45.0	25.7	17.6	+ 24.8	+ 14.8	+ 23.8	74.3	E. Carley and Co.	738	
+ 5.5	+ 5.7	+ 11.8	+ 10.3	+ 1.4	+ 0.4							Wais & McCulloch	3582	
- 12.4	- 39.1	- 13.9	- 16.9	- 19.6	- 19.8	27.3	12.6	- 31.7	- 29.5	- 24.8	77.8	Carroll	4124	
- 15.0	- 17.8	- 18.1	- 13.9	- 16.1	- 14.7	20.1	15.8	- 31.6	- 30.8	- 30.6	77.6	Yonans	7077	
+ 6.2	+ 5.8	+ 12.3	+ 11.3	+ 12.3	+ 14.7	26.9	19.9	- 2.9	- 2.9	- 2	78.1	E. White	2682	
- 15.8	- 15.8	- 15.8	- 15.8	- 15.8	- 15.8	25.3	24.7	+ 8.9	+ 7.9	+ 8	78.4	Robert	7078	
- 15.0	- 15.0	- 20.1	- 14.8	- 20.7	- 17.6	31.9	19.8	+ 16.0	+ 9.8	+ 1.9	80.5	Sevill	4429	
+ 4.5	- 8.7	+ 1.0	+ 0.1	- 0.6	+ 4.7	35.2	20.6	+ 1.7	+ 12.2	+ 7.8	80.6	Usher and Cole	2941	
- 44.1	- 31.5	- 48.0	- 53.0	- 57.9	- 55.5	35.8	21.0	+ 2.3	- 7.0	- 3.6	80.6	Freidlander	2616	
+ 15.0	+ 12.8	+ 12.8	+ 10.5	+ 10.7	+ 10.7	35.8	19.8	+ 4.7	+ 4.4	+ 8	81.9	Usher and Cole	2942	
- 38.4	- 38.3	- 48.0	- 52.7	- 59.1	- 59.8	43.6	13.6	+ 3.2	- 0.6	+ 4.5	83.8	Wright & Craighead Chandler	2181 5646	
53.6	53.8	54.1	45.0	41.5	40.6									

The sign + indicates a gaining rate.

The quantities a, b, c, d, e , taken in the formula $a + b + c + d + e$ ($= \frac{54.5}{47.4}$), are taken numerically, without regard to sign.

Only those watches have been included in this list for which the trial number did not exceed 100.

(1) WEEKLY RATES IN ORDER OF TIME

NAME OF MAKER.	No.	Oct. 26 to Nov. 2.	Nov. 2-9.	Nov. 9-16.	Nov. 16-23.	Nov. 23-30.	Nov. 30 to Dec. 7.	Dec. 7-14.	Dec. 14-21.	Dec. 21-28.	Dec. 28 to Jan. 4.	Watch Horizontal. Dial up.
S. Smith and Sons.....	193397	-6-2	-8-0	-10-7	-13-5	-13-4	-10-6	+11-9	+8-4	+8-4	+10-2	
Under and Cole.....	33039	-7-2	-8-0	-10-7	-13-5	-13-4	-10-6	+11-9	+8-4	+8-4	+10-2	
J. White and Sons.....	38310	-7-7	-10-2	-13-3	-17-5	-24-1	-20-6	-6-1	-11-7	+10-4	-10-5	
Holland.....	3075	+10-3	+20-8	+20-7	+20-7	+20-7	+20-7	+20-7	+20-7	+20-7	+20-7	
Fridlander.....	25614	-7-5	-7-4	-9-0	-11-3	-14-2	-16-6	+1-3	+1-8	+0-0	+0-6	
Chandler.....	56469	-26-8	-25-4	-23-0	-21-1	-23-8	-23-0	-21-6	+13-5	+9-8	+9-8	
Under and Cole.....	33039	-7-2	-8-0	-10-7	-13-5	-13-4	-10-6	+11-9	+8-4	+8-4	+10-2	
J. White and Sons.....	38310	-7-7	-10-2	-13-3	-17-5	-24-1	-20-6	-6-1	-11-7	+10-4	-10-5	
Johannes and Co.....	6074	+0-7	+9-3	+10-3	-8-8	-2-8	-5-8	-18-7	-3-0	-27-8	+11-7	
L. Hall.....	1768	-21-9	-26-4	-20-9	-15-4	-27-8	-21-9	-13-2	-6-5	+7-0	+11-9	
Klean and Co.....	62437	-27-9	-40-9	-42-1	-28-6	-28-2	-21-9	-17-2	+22-0	+14-0	+9-8	
J. Player and Son, Ltd.	30234	-26-4	-24-1	-27-8	-20-1	-23-0	-23-8	-11-1	+23-1	+17-5	+22-4	
Goldsmiths and Silver	50443	-21-3	-20-8	-24-2	-23-0	-23-0	-23-0	-23-0	-23-0	-23-0	-23-0	
Milne.....	55171	-1-7	-4-3	-2-5	-7-4	-13-1	-10-9	+0-9	-14-2	-12-9	+7-7	
Hewitt.....	57240	-9-4	-11-8	-10-8	-5-8	-8-0	-5-9	+3-0	-1-3	-2-1	+4-0	
J. Player and Son, Ltd.	29614	-17-7	-26-6	-25-0	-27-8	-27-0	-23-1	-11-0	-17-2	-13-9	-19-8	
Chandler.....	56469	-17-8	-25-0	-24-8	-41-9	-49-9	-40-5	-23-1	-18-7	-7-5	+13-3	
Wales and McCulloch	18079	-11-7	-8-5	-10-2	-11-7	-9-7	-7-8	+8-9	-7-9	+7-5	+13-3	
Smith and Rait.....	23854	-7-0	-16-0	-13-7	-11-8	-15-5	-13-6	+0-8	+7-0	+9-1	+13-3	
J. White and Sons.....	38308	+61-4	+35-9	+33-2	+24-1	+35-9	+34-6	+13-3	+24-3	+2-3	+14-0	
P. and A. Guye, Ltd.....	12846	+11-6	+11-2	+15-2	+18-8	+14-9	+18-0	-2-7	+20-8	-8-4	-92-2	
Johannes and Co.....	6043	-10-3	-13-9	-13-6	-24-8	-24-9	-24-9	+8-8	-8-4	-11-5	-13-3	
S. Smith and Sons.....	18336	-6-9	-11-9	-10-2	-14-2	-16-9	-13-2	+9-3	-6-3	-10-0	-9-5	
Thorneloe.....	61622	-20-5	-24-2	-21-7	-25-4	-22-6	-20-8	0-0	-6-1	-1-6	-2-6	
Mean Weekly Temperature ...		56-1	58-5	58-4	52-8	52-0	58-8	81-7	78-4	78-9	88-8	
Extremes of Temperature as taken by the Self-Regulating Thermometer.....		52-3-55-1	49-3-59-9	45-5-57-6	45-7-55-6	45-8-55-5	51-1-55-1	74-7-58-4	72-0-51-6	75-5-58-7	78-7-57-3	

* The Weekly Rates have been computed from the rates for three days.

During the period Dec. 7 to Jan. 4, the watches were placed in an oven heated by jets of gas, the temperature being regulated by Eilberg's automatic governor, which controls the supply of gas. The gas flames are exterior to the chamber, into which none of the injurious products of combustion can enter.

† The Weekly Rates have been computed from the rates for four days.

During the period Dec. 7 to Jan. 4, the watches were placed in an oven heated by jets of gas, the temperature being regulated by Eilberg's automatic governor, which controls the supply of gas. The gas flames are exterior to the chamber, into which none of the injurious products of combustion can enter.

(2) ABSTRACT OF THE PRINCIPAL CHANGES OF RATES.

Jan. 4-11.	Jan. 11-18.	Jan. 18-25.	Jan. 25 to Feb. 1.	Feb. 1-8.	Feb. 8-15.	Difference between greatest and least Weekly Rates. Dial up. a.	Greatest difference between one week and the next. b.	Difference of Weekly Rates. Pendant up. c.	Pendant right up. d.	Pendant left up. e.	a + 2b + 4c + 8d + 16e	NAME OF MAKER.	No.
+ 0-0	-4-2	+ 2-8	-8-3	-8-5	-2-5	35-7	22-5	-7-5	-7-2	-13-0	84-9	S. Smith and Sons.	193397
+ 17-9	-25-6	+ 26-8	-20-1	-94-9	-94-5	85-2	18-2	+10-8	+10-8	+14-3	85-0	Yemassee.....	17187
-20-3	-25-6	+ 24-2	-20-9	-91-6	-82-9	26-8	18-9	+10-1	+27-7	-47-0	85-2	Seville.....	44297
+ 30-4	-27-0	+ 23-1	+ 30-2	+ 26-3	27-7	37-9	16-5	-44-4	-15-3	-1-9	86-1	Holland.....	3075
-25-5	-28-6	-22-5	-25-6	-31-9	-30-2	83-2	26-0	+1-2	0-0	+4-6	86-7	Fridlander.....	25614
-25-5	-32-1	-35-9	-49-2	-51-1	-53-6	23-2	10-9	+45-5	+41-0	+43-9	86-9	Chandler.....	56469
+ 7-3	-4-3	+ 6-9	-11-1	-14-3	-15-7	26-9	17-0	+20-1	+24-4	+11-5	87-0	Under and Cole.....	33039
+ 29-4	-27-1	+ 27-9	+ 24-0	+ 27-7	+ 85-3	38-9	20-9	+10-1	+10-1	+14-5	87-0	J. White and Sons.....	38310
-13-4	-18-6	-1-2	-7-3	-1-6	-20-8	33-3	20-8	-7-0	-20-8	-46-8	88-2	Johannes and Co.....	6074
-21-1	-27-0	-32-2	-38-1	-41-9	-40-6	40-1	19-8	+10-2	-13-7	+14-5	88-5	L. Hall.....	1768
-9-0	-19-0	-14-4	-14-4	-22-2	-19-6	36-4	14-7	+23-6	+25-5	+21-3	90-4	Klean and Co.....	62437
-31-6	-20-1	-25-9	-27-5	-33-6	-33-7	22-6	20-4	+3-4	+28-7	+22-2	90-4	J. Player & Son, Ltd.	30234
-40-8	-42-2	-40-0	-44-4	-44-6	-41-2	34-6	26-7	-2-0	-10-3	-3-3	91-4	Goldsmiths and Silver.....	50443
+ 2-4	-7-7	-5-1	-17-0	-25-9	-22-0	43-5	15-2	-20-3	-21-9	-22-2	91-6	Milne.....	55171
-32-7	-36-8	-36-1	-31-9	-33-5	-33-8	39-6	25-7	+0-7	+0-8	-0-1	91-6	Hewitt.....	57240
-24-2	-23-0	-17-3	-35-0	-36-7	-36-3	35-9	23-8	-10-1	-13-3	-14-1	93-0	J. Player & Son, Ltd.	29614
-2-8	-10-0	-2-0	-14-6	-27-9	-25-9	53-8	18-1	-1-8	+6-1	+11-9	93-6	Chandler.....	56469
-11-0	-13-2	-16-1	-23-6	-41-7	-49-7	53-6	18-1	-1-8	+6-1	+11-9	93-7	Wales and McCulloch.....	18079
-9-7	-32-1	-40-5	-30-9	-39-8	-39-2	40-6	22-4	+10-4	+9-3	+13-9	94-0	Smith and Rait.....	23854
+ 41-1	+ 40-2	+ 47-4	+ 51-0	+ 51-5	+ 54-8	42-5	22-3	+2-6	+13-9	-17-9	95-0	J. White and Sons.....	38308
+ 16-7	+ 15-1	+ 18-6	+ 19-7	+ 16-9	+ 18-3	25-3	22-3	+23-4	-4-2	-38-0	96-5	P. and A. Guye, Ltd.....	12846
-6-0	-9-8	-6-8	-15-4	-22-5	-21-7	38-4	22-5	-16-7	-22-6	-22-1	99-3	Johannes and Co.....	6043
-21-4	-10-2	-5-0	-9-2	-37-1	-42-0	42-0	27-9	+4-8	+4-8	+3-8	99-6	S. Smith and Sons.....	18336
												Thorneloe.....	61622
58-6	52-8	54-1	45-0	41-5	40-8	The signs + indicates a gaining rate. The quantities a, b, c, d, e, in the formula a + 2b + 4c + 8d + 16e, are taken numerically, without regard to sign.							
51-4-55-7	47-6-57-6	48-5-50-3	39-4-45-6	38-7-45-8	37-5-45-0								

Only those watches have been included in this list for which the trial number did not exceed 100.