

Timetrax Clock Train Tables & Train Calculation Methods



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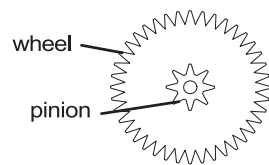
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Basic Train Calculations

Many clocks and some watches have nonstandard or unknown trains. The correct train may be found using fairly simple calculations. The most difficult part of the procedure is identifying the various gears in the train, and counting the number of teeth on each.

Begin by sketching the timing train as shown in the examples that follow. The only gears necessary are those from the escape wheel to the hour wheel. The hour wheel is so named because it rotates one complete revolution per hour. Once the train is identified and sketched, the number of teeth on each wheel and pinion is marked on the sketch.

Conventionally the wheels are the drivers and the pinions are the driven. When using the 'Standard' method to calculate a clock train in beats per hour you would follow the steps outlined here.



Standard Method, 4 Basic Steps

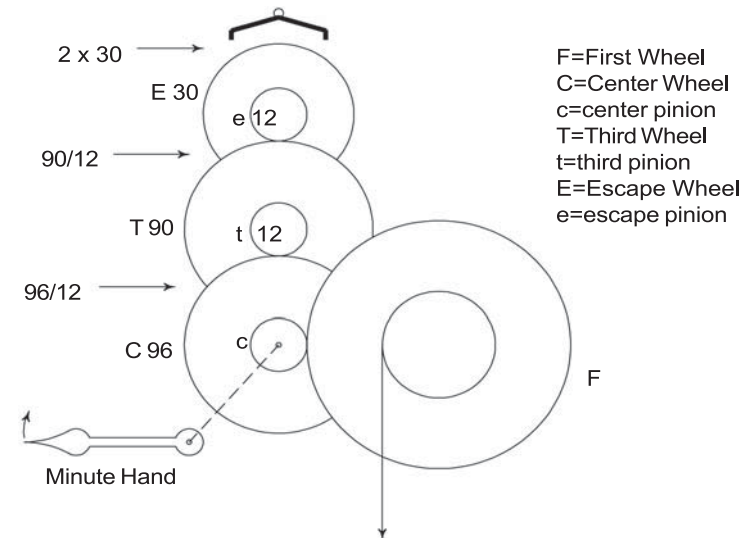
- Step 1. Multiply the drivers (wheels) together. Include escape wheel teeth here.
- Step 2. Multiply the driven (pinions) together.
- Step 3. Divide the result of Step 1 by the result of Step 2. The result is now the number of teeth on the escape wheel that pass a fixed point in one hour.
- Step 4. Multiply the result of Step 3 by two. The result is the number of beats per hour, since each escape wheel tooth produces two beats, one as it enters the verge, and another as it exits.

Several examples of train calculation are presented in this manual. The first two, American Weight Regulator, and American Mantle Clock, are derived using both the Standard and Superposition methods.

Superposition Method

An alternative technique has been developed by David J. Carlson, Carlson Clock Service, Indianapolis, Indiana. Mr. Carlson states "The procedure is based on the circuit analysis technique of superposition. I assume the power in the gear train is introduced at the minute hand and trace the Time Train from the minute hand to the escapement. Once identified, the time train is broken down into a series of gear to gear transitions or ratios. Multiplying these ratios gives the final answer in beats per hour (BPH)." The method is described by way of example.

Example 1: American Weight Regulator



Layout of typical American Weight Regulator

The first wheel (or great wheel) is fitted with a barrel wound with a weight cord which drives the center pinion which in turn drives the center wheel. The center wheel carries the minute hand and makes one turn in an hour.

Standard Method

Looking at the sketch above, the drivers (wheels) involved are the center wheel, third wheel, and escape wheel. The driven (pinions) are the third and escape pinion. The result of steps 1-4 is the equation:

$$\begin{aligned} \text{BPH (beats per hour)} &= \text{CT}^2\text{E}/\text{te} \\ &= (96 \times 90 \times 2 \times 30) / (12 \times 12) = 3600 \end{aligned}$$

Superposition Method (Carlson)

"Weight Regulator: The gear train layout of a typical weight regulator is shown [above]. Not all of the gears are part of the Time Train, only that portion of the train through which the escapement controls the motion of the minute hand.

Step 1: To identify the Time Train, start with the minute hand and trace the shortest gear path from the minute hand to the escapement. In this case the Time Train starts with the Center Wheel, C.

Step 2: Imagine that you use the minute hand as a crank and for the gear path identified in step 1, form a fraction for each gear to gear transition (wheel to wheel, pinion to wheel, or wheel to pinion) using the number of teeth in the driving gear as the numerator and the number of teeth in the driven gear as the denominator.

The three gear transitions in the Time Train are indicated by arrows. They are:

Center Wheel C drives pinion t = 96/12

Wheel T drives pinion e = 90/12

Wheel E drives the escapement = $30\frac{1}{2}$ = 2 x 30*

* The last gear transition is the escape wheel driving the escapement. Each tooth of the escape wheel drives the escapement through one half cycle (one rotation of the balance wheel or one beat of the pendulum) therefore in one rotation of the escape wheel, the ratio becomes $30\frac{1}{2}$ ($30\frac{1}{2} = 2 \times 30$).

Step 3: Multiply all the fractions together to find Beats per Hour (BPH)
 $96/12 \times 90/12 \times (2 \times 30) = 3600 \text{ BPH}$

Trains vary in construction with more or less wheels and numerous types of escapements. Refer to the tables provided at the end of this manual for specific examples. Clocks with shorter pendulums usually have a fourth wheel. The calculation is easily extended to include the fourth wheel:

$\text{BPH} = \text{CTF}2\text{E}/\text{tfe}$ where F = Fourth Wheel teeth, f = fourth pinion;

Example 2: American Mantel Clock with 1/2 hr. strike

Consider the American mantel clock, sketched on the following page, where the first wheel G does not gear into a center pinion. Instead it gears into a second pinion, s. The Second wheel S drives two wheels. These are the third pinion, t, and the center pinion c. As you can see, the main (great) wheel is not between the hour wheel and escape wheel, so you don't need it for the train calculation. It is shown to help you understand how the movement works, and how you would handle a movement with an auxiliary driven hour wheel.

Before beginning the example calculation we need to know where to start. The starting point is always the hour wheel, since it is the only one for which the rate is known. For this particular movement, and others like it, you need to realize that since the hour wheel has 26 teeth, then

26 teeth on the 2nd wheel must go by a fixed point in one hour. This is our starting point, and the 'Standard' calculation, using the four steps outlined, would go as follows:

Step 1: $26 \times 42 \times 42 \times 48 = 2,201,472$

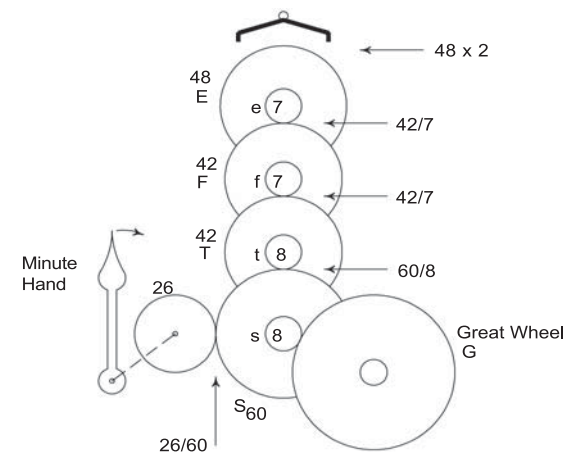
Step 2: $8 \times 7 \times 7 = 392$

Step 3: $2,201,472 / 392 = 5616 \text{ escape wheel teeth per hour}$

Step 4: $5616 \times 2 = 11,232 \text{ bph}$. The calculation is now complete.

American Mantel Clock using Superposition Method (Carlson)

Mr. Carlson states "Another gear train configuration is found in a typical American Mantel Clock. The same three step procedure [superposition method] is used to find the BPH.



Step 1: Start with the minute hand and trace the Time Train.

Step 2: Identify the five gear transitions, starting from the minute hand and ending with the escapement. Form a ratio at each gear transition. The ratios are: 26/60, 60/8, 42/7, 42/7, and finally the escape wheel driving the escapement, (48 x 2).

Step 3: Multiply the five ratios to find the BPH:
 $26/60 \times 60/8 \times 42/7 \times 42/7 \times (2 \times 48) = 11,232 \text{ BPH}$

Wood Works Clock Data

P = # of pinion teeth W = # of Wheel Teeth

	Min.		HR		Main	2nd		3rd		4th		Esc		Train
	P	W	P	W	W	P	W	P	W	P	W	P	W	
Eli Terry	18	36			32	8	36	6	30			6	30	3600
E. Terry	20	40	8	48	42	8	35	7	32			7	30	3600
Thomas &	20	40	8	48	42	8	35	7	32			7	30	3600
S. Hoadley	20	40			42	8	35	7	32			7	30	3600
S.Cate	20	40	8	48	42	8	35	7	35			7	30	3600
E. Terry	18	36	8	48	32	8	36	6	30			6	30	3600
G. Robert	16	32			32	8	36	6	30			6	30	3600
R. Whiting	20	40	8	48	48	8	35	7	28			7	30	3600
A&C Edwards	10	30	8	32	42	6	32	6	30			6	30	3732
A. Goold	15	30	6	36	36	6	30	6	24			6	30	3600
J.Emory	18	25	4	36	32	10	30	8	32	8	32	8	30	3600
S. Hoadley	18	46	8	48	42	12	40	8	48	8	40	8	60	3600
Critchett	15	30	6	36	48	8	48	6	45			6	30	3600
S. Hoadley					10	10	42	8	32	8	32	8	32	5040

Notes: upside down escapement, ivory bushings, w/alarm, wts. 21/2 lb.

Jerome & Darrow 30 hr 40 8 36 8 32 11 42 5498

Charles Kirke 30 hr 24 8 36 8 31 24 42 8 41 7507

Notes: Pillar & Scroll, 6 oz. pendulum

Production Clocks: J. Keininger Clock Co.

Pend. inches	Rate cm.	Rate (Train)	Pend. inches	Rate cm.	Rate (Train)
3.93	10	13128	16.92	43	6084
5.51	14	10836	18.89	48	5742
5.90	15	10650	21.25	54	5322
6.29	16	9858	25.59	65	4722
8.26	21	8358	31.49	80	4254
11.4	29	7626	36.61	93	4000
12.59	32	7026	39.37	100	3798
13.77	35	6750	45.66	116	3600

American Shelf Clock Time Train Data

From: Dr. Snowden Taylor, NAWCC Bulletin # 221 , Jerome Mvt. Identification

Notes: First Arbor Wheel Data for 8 day clocks only W=Wheel, P=pinion

		(30hr 1st)		(30hr 2nd)		Escape		Center		Intermed		TRAIN
	8D1st	8D 2nd	W P	8D 3rd	W P	W P	W P	W P	W P	W P		
C.N.Jerome 8D	78	78	8	78	6	32	6	30	12	36	10	4992.0
C.Jerome 30hr.		78		78	6	32	6	30	12	36	10	4992.0
Morse 30hr		78		78	6	42	6	36	12	36	10	6552.0
E.C.Brewster 8D	78	78	8	78	6	32	6	30	12	36	10	4992.0
C.N.Jerome 30hr		78		78	6	42	6	39	12	36	10	
C.N.Jerome 30hr		78		78	6	42	6	36	12	36	10	6552.0
C.Boardman 30hr.		78		80	6	42	6	36	12	36	10	6720.0
Brew.Ingr 30hr.		80		80	6	45	6	36	12	36	10	7200.0
Welton 30hr.		78		80	6	42	6	36	20	40	8	7466.7
Forrestville 8D	96	78	8	78	6	30	6	39	12	36	9	4680.0
Forrestville 30hr.		78		78	6	36	6	39	12	36	9	5616.0
Forrestville 30hr.		78		78	6	39	6	39	12	36	9	6084.0
Welch 30hr.		78		78	6	42	6	36	12	36	9	6552.0

Description	TRAIN	Description	TRAIN
Weight Driven		Gilbert	
Seth Thomas #2	4800.0	China	9169.6
Howard # 70	5084.7	Tambour	9169.6
Howard # 72	3600.0	Steeple	8915.3
Chelsea # 1	5084.7	Cottage	9860.3
Howard # 1	3600.0	Short Drop	7253.7
Waltham Banjo	4639.8	Banjo T&S	5399.7
S. Willard Banjo	4704.0	Schoolhouse Regulator	6314.7
Chandler Lyre	4800.0		
NH Mirror	4500.0	Ingraham	
Sawin Lyre	4704.0	Long Drop	5730.7
Mass Shelf	5700.7	Long Drop	5413.5
Chelsea Banjo	5026.5	Ionic Wall	7215.9
Terry 30hr WW	7578.9	T & S Banjo	5305.8
Terry 8D WW 5400.5		Short Drop	7467.3
Jerome & Darrow WW	5400.5	Kitchen	8930.8
Hoadley 30 hr WW	7200.0	30 hr. shelf	8319.9
30hr WW Tall Clock	3600.0		
Ansonia Capital	4440.1	New Haven	
Ives Looking Glass	3600.0	Banjo (Long Pen.)	5084.0
Ithaca Bank	4320.2	Banjo (3/4 size)	5214.4
Waterbury # 20	4800.0	Kitchen Clock	8915.3
Waterbury # 6	3600.0	30 hr. Cottage	7875.7
S.T. Lincoln	6294.8	Tambour	9942.0
New Haven Banjo	5037.8	Rear Pend. Shelf	9000.0
Shelf Clocks		Seth Thomas	
Ives Wagon Spring	6551.4	Ships Bell	14400.0
Ships Bell	14400.0	Ships Clock	18000.0
Ships Bell	18000.0	Oak & Walnuts	8372.1
400 day	600.0	30 day Wall	7200.0
400 day	480.0	Banjo (long Pen.)	5269.3
Balance Wh. Esc.	9000.0	Long Drop "A" mvt	6179.2
Fusee Bracket	7200.0	30 hr. Miniature	11015.9
		Lyre Mvt. Shelf	8961.9
Ansonia		C. 1900 Mantel	9777.3
Visible Escapement	9463.7	Short Drop	7280.1
Kitchen	7343.9	Parlor Calendar	8372.1
"A" Regulator	5039.9		
Short Drop	7410.5	Waterbury	
Porcelain "Bonn"	11520.0	Long Drop	5524.9
China Case	11520.0	Schoolhouse Reg.	6824.6
Black" Mantel	8532.8	Banjo (Long Pen.)	4760.0
Tambour	10477.3	Short Drop	7853.4
Round Plate	10440.8	30 hr. Shelf	6666.7
Cottage	4949.8	30 hr. Shelf	9333.7
Between Plates Verge	8514.7	Ships Bell	14400.0
Between Plates Verge	7343.9	Black Mantel	9551.6
Steeple & Beehive	6857.1		

NEW PRODUCTION CLOCKS:

URGOS

Mfr.	Train
Urgos	3600
Urgos	3852
Urgos	3870
Urgos	4074
Urgos	4320
Urgos UW07	4070
Urgos UW05,07	4320
Urgos UW05	4626
Urgos UW58	4722
Urgos UW05,07 41,27	4800
Urgos UW06	4878
Urgos UW21	4932
Urgos UW47,62	5088
Urgos UW47	5352
Urgos UW58	5508
Urgos UW47	5568
Urgos UW05	5664
Urgos UW07,21,47	5862
Urgos UW47	6000
Urgos UW06	6096
Urgos UW21,47	6252
Urgos UW21,62	6348
Urgos UW47	6510
Urgos UW21	6690
Urgos UW47	6840
Urgos UW47	7032
Urgos UW06	7074
Urgos UW16	7404
Urgos UW47	7758
Urgos UW06	7836
Urgos UW47	7920
Urgos UW47	8166
Urgos UW47	8202
Urgos UW16	8328
Urgos UW47	8598
Urgos UW16,22	9714
Urgos UW 16,22	10080
Urgos UW16	10560
Urgos Balance	10800
Urgos UW47	11460
Urgos Ships	18000

UW05 - Spring, Westmin. chime
 UW07 - Weight, chain or cable
 UW16 - Bim Bam
 UW21 - Time only
 UW22 - Time only

HERMLE, pendulum length die stamped on plate Pendl. length (cm.) Train

11	12048
11	12030
12	11766
12.5	11880
15	10698
16	10080
18	9720
20	9000
21	8892
21	8880
23	8244
23	8160
25	7932
25	7920
26	7800
26.5	7722
27	8022
29	7818
30	7200
31	7542
31	7560
32	7368
32.5	7080
33	6840
33.5	7050
34	6840
35	6750
35	6720
38	6666
39	6360
43	6270
44	6000
45	6114
45	6108
45	6120
48	5736
52	5556
55	5286
55	5280
66	4806
75	4548
85	4242
94	3960

Clock Trains with Lengths of Pendulums from DeCarle Clock & Watch Encyclopedia

Cen. W.	3rd W.	3rd p.	Esc. W.	Esc. p.	TRAIN	inches	cm
128	120	16	30	16	3600	39.14	994.16
112	105	14	30	14	3600	39.14	994.16
96	90	12	30	12	3600	39.14	994.16
80	75	10	30	10	3600	39.14	994.16
64	60	8	30	8	3600	39.14	994.16
68	64	8	30	8	4080	30.49	774.45
70	64	8	30	8	4200	28.75	730.25
72	64	8	30	8	4320	27.17	690.12
75	60	8	32	8	4500	25.05	636.27
72	65	8	32	8	4680	23.15	588.01
75	64	8	32	8	4800	22.01	559.05
84	64	8	30	8	5040	19.97	507.24
86	64	8	30	8	5160	19.06	484.12
88	64	8	30	8	5280	18.19	462.03
84	78	7	20	7	5346	17.72	450.09
80	72	8	30	8	5400	17.39	441.71
84	78	7	21	7	5616	16.08	408.43
94	64	8	30	8	5640	15.94	404.88
84	78	8	28	8	5730	15.45	392.43
108	100	12	32	10	5760	15.28	388.11
84	84	9	30	8	5880	14.66	372.36
84	78	7	22	7	5880	14.66	372.36
84	78	8	29	8	5934	14.41	366.01
80	80	8	30	8	6000	14.09	357.89
85	72	8	32	8	6120	13.54	343.92
84	78	8	30	8	6144	13.44	341.38
84	78	7	23	7	6150	13.40	340.36
105	100	10	30	10	6300	12.78	324.61
84	78	8	31	8	6348	12.59	319.79
84	78	7	24	7	6420	12.30	312.42
96	72	8	30	8	6480	12.08	306.83
84	78	8	32	8	6552	11.82	300.23
88	80	8	30	8	6600	11.64	295.66
84	77	7	25	7	6600	11.64	295.66
84	78	7	25	7	6684	11.35	288.29
84	80	8	32	8	6720	11.22	284.99
84	78	8	33	8	6732	11.15	283.21
96	76	8	30	8	6840	10.82	274.83
115	100	10	30	10	6900	10.65	270.51
84	78	7	26	7	6954	10.49	266.45
96	80	8	30	8	7200	9.78	248.41
84	70	7	30	7	7200	9.78	248.41
84	78	7	27	7	7218	9.73	247.14
90	84	8	31	8	7320	9.46	240.28
84	78	7	28	7	7488	9.02	229.11
100	80	8	30	8	7500	9.01	228.85
90	84	8	32	8	7560	8.87	225.30
100	96	10	40	10	7680	8.59	218.19
84	78	7	29	7	7758	8.42	213.87
100	78	8	32	8	7800	8.34	211.84
84	77	7	30	7	7920	8.08	205.23

Clock Trains with Lengths of Pendulums from DeCarle Clock & Watch Encyclopedia

Cen.	W.3rd W.	3rd p.	Esc.	W.	Esc.	p.	TRAIN	inches	cm
84	78	7	30	7	8022	7.90	200.66		
90	90	8	32	8	8100	7.73	196.34		
84	78	7	31	7	8292	7.38	187.45		
84	80	8	40	8	8400	7.18	182.37		
120	71	8	32	8	8520	6.99	177.55		
84	78	7	32	7	8556	6.93	176.02		
100	87	8	32	8	8700	6.95	176.53		
84	78	7	33	7	8826	6.50	165.10		
100	96	8	30	8	9000	6.26	159.00		
84	78	7	34	7	9096	6.10	154.94		
96	95	8	32	8	9120	6.09	154.69		
84	77	7	35	7	9240	5.94	150.88		
104	96	8	30	8	9360	5.78	146.81		
84	78	7	35	7	9360	5.78	146.81		
120	96	9	30	8	9600	5.50	139.70		
84	78	7	36	7	9630	5.47	138.94		
84	78	7	37	7	9894	5.15	130.81		
132	100	9	27	8	9900	5.17	131.32		
84	78	7	38	7	10164	4.88	123.95		
128	102	8	25	8	10200	4.87	123.70		
84	78	7	39	7	10428	4.65	118.11		
84	77	7	40	7	10500	4.55	115.57		
84	78	7	40	7	10560	4.43	112.52		

The following section contains train information sent to us by Timetrax users, working in the field and on the bench. The section is alphabetized by maker. Each listing contains a two line description, with a reference to the contributor at the end of the first line. Contributors are listed at the end of the section.

SAMPLE

Description	Contributor Code	Train Data
Ansonia 8D T&S spg. 2 nickel pltd. plates, O.E. pat 6-14-81	24 45 8	44 7 30 6 8485.7
Detail Description		

We attempt to publish all usable train information sent to us. Consequently there may be multiple listings for the same movement.

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc
Clock Description	Whl.	Whl.	pin.	Whl.	pin.	Whl.	pin.
Train							
Alaran 31 D, T&S							
S/P, C-27 (Korean)	70	68	7	1	1	34	7
Alaran 31D T&S 1							
Spring/Pend., C-20, (Korean)	78	68	7	1	1	36	7
ALG 8D TO Vienna 1							
W/P, Vienna style, maintaining power	72	70	8	1	1	30	8
American Cuckoo Clock Co. 30 hr w/quail 1							
W/P, 3 trn, cast plates and gears	32	70	48	66	6	39	6
Ansonia 8D time only spg. 2							
swinging arm	13	48	9	46	8	26	6
Ansonia 'Capitol' 8D TO 2							
Wgt., nickel plated movt. plates	64	60	8	1	1	37	8
Ansonia 8D T&S spg. 2							
lg drop school, sec bit, Pat. 6-13-82	30	84	6	1	1	42	7
Ansonia 8D time only spg. 2							
long drop school clock, cal	40	72	6	1	1	40	7
Ansonia 8D T&S spg. 2							
school clock, Pat. 6-18-82	26	40	8	38	8	37	7
Ansonia Cuckoo 30 hr. 1							
W/P, 3 trains, worm wheel gov.	36	60	7	66	36	36	6
Ansonia 8D T&S spg. 2							
school clock, Pat. 6-18-82	26	40	8	40	7	32	7
Ansonia 8D T&S 1							
Spg./Pen., short drop school, #8 on leg	26	40	8	40	7	32	7
Ansonia 8D TO 1							
S/P #12 short drop school	26	40	8	38	7	39	8
Ansonia 8D T&S spg. 2							
marquetry school clock	40	80	6	1	1	40	6
Ansonia spg. 3							
kitchen, 9 1/2" Pend.	24	42	8	42	7	34	7
Ansonia 8 D T&S 2							
Spring, Pat. 6-18-1882, (9 1/4)	24	42	8	42	7	34	7
Ansonia 8D T&S spg. 2							
Pat 6-18-1882, (9 1/4)	24	42	8	42	7	34	7
Ansonia 8D TO 1							
S/P, #10 also N, sh drp school house	26	40	8	38	7	42	8
Ansonia 8D time only spg. 2							
short drop school clock	26	40	8	38	7	42	8
Ansonia 8D T&S spg. 2							
shelf clock	24	42	8	42	7	35	7
Ansonia 8 D T&S spg. 2							
gingerbread	26	40	8	40	7	36	7
Ansonia 8D T&S spg 2							
shelf clock	26	40	8	40	7	40	7
Ansonia Brass & Copper 2							
30 hr. T&S, steeple	13	48	8	40	6	46	6
Ansonia 8D T&S spg. 2							
shelf clock	26	40	8	40	7	39	7
Ansonia 8D T&S spg. 2							
shelf clock	26	40	8	40	7	39	7
Ansonia 8D T&S spg. 2							
nickel pltd. plates, O.E. pat 6-14-81	24	45	8	44	7	30	6

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc Whl. pin.	Esc Whl.pin.	
Train								
Ansonia 8D T&S spg. 2								
5th Ave. shelf clock	26	40	8	40	7	40	7	8489.8
Ansonia 10								
Mantel clock, Pat. 6/18/82	24	43	8	42	7	35	6	9030
Ansonia 8D T&S spg. 2								
OE blk mantle, Pat. 6-18-82, 6-14-81	24	46	8	46	7	30	6	9068.6
Ansonia 8D T&S spg 4								
black mantel, Pat. 6-13-1882	26	40	8	42	7	35	6	9100
Ansonia 8D T&S spg. 2								
black mantel.	24	42	8	43	7	36	6	9288
Ansonia 8D T&S 1								
S/P, #5 on leg, exposed escapement	24	46	8	48	7	30	6	9462.86
Ansonia 10								
open escapement clock								9462.9
Ansonia 8D T&S spg. 2								
black mantle, #5 back plate	24	42	8	43	7	37	6	9546
Ansonia 8D T&S 1								
Spring/Pend., #5 stamped on leg	24	42	8	43	7	37	6	9546
Ansonia 8D T&S spg. 2								
O.E. crystal reg. Pat. 6-14-81	15	60	8	60	7	30	6	9642.8
Ansonia 8D T&S 1								
S/P, rnd plate 51/4, mainsp. CML 110.1	24	54	8	56	8	30	7	9720
Ansonia 8D T & S 1								
S/P, 41/2 stamp, Pat June 10 1882	24	43	8	43	6	33	6	10169.5
Ansonia 8D T&S spg. 2								
O.E. marble mantle Pat. 6-13-82	15	62	8	62	7	30	6	10296.4
Ansonia 8D T&S spg. 2								
crystal reg.	24	58	8	56	8	30	7	10440
Ansonia 8D T&S spg. Bim Bam 4								
Tambour, "A27" , # 4 back plate	24	43	8	43	6	34	6	10477.7
Atkins 8D time only wgt. 2								
round top wall regulator	72	60	8	1	1	32	8	4320
Atkins 30D time only spg. 2								
shelf clk, Fusee w/roller pinions	64	60	8	1	1	48	8	5760
Atkins 30D time only 2								
Fusee school clock	36	36	9	36	9	45	8	6480
Atkins & Porter 30hr ogee 2								
Center cnt. wheel, hr & 1/2 hr strike	36	78	6	1	1	42	6	6552
Atkins, 30hr T&S spg 2								
Steeple clock	13	60	7	49	7	36	7	8022.9
B + D Limited 8D T & S 1								
Wt/P., Germany 305, Castle trademark	30	68	40	63	7	30	7	3934.29
Baird 8D spring time only 2								
Unsigned mvt.	26	40	8	40	7	31	8	5757.1
Baird 8D spring time only 2								
English Export	26	40	7	40	8	31	8	5757.1
The Barns Bros. Clock Co. 8D T & S 1								
S/P, main springs 5/8 x .018 x 96"	26	40	8	40	7	40	7	8489.8
J.J. Beals 30 hr. T&S spg. 2								
cottage, w/roller pinions	56	49	7	49	7	14	8	9604
Gustav Becker 8D T&S wgt. 2								
vienna reg. # P-64	72	72	8	1	1	30	8	4860

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc Whl. pin.	Esc Whl.pin.	
Train								
Gustav Becker 2								
2 Weight Vienna, P. 27	72	72	8	1	1	30	8	4860
Gustav Becker 8D T & S 1								
Wt./Pend., P64 Vienna regulator 2 wt.	72	72	8	1	1	30	8	4860
Gustav Becker 8D T & S 1								
S/P marked H P42 M	70	64	7	1	1	34	7	6217.14
Gustav Becker 8D T&S spg. 2								
R-A wall reg. #901624	84	70	7	1	1	26	7	6240
Birge & Peck 8D T&S 1								
Strap mvt., rolling pinions	36	72	6	1	1	36	6	5184
Birge & Fuller 8D 2								
Wagon spring steeple on steeple	36	78	6	1	1	42	6	6552
Birge & Fuller 8D T&S 2								
steeple on steeple fusee	36	78	6	1	1	42	6	6552
Brewster Mfg. Company 30 hr TO 2								
Ladder mvt. mini ripple front	12	36	7	36	7	36	7	3264.6
Brewster & Ingrahams 30 hr. T&S 1								
S/P brass, very long brass springs	36	80	6	1	1	48	6	7680
Brewster & Ingrahams 8D T&S (ct-mvt, BRISTOL CONN - label) 11								
Beehive, Steel Spring, count wheel	39	78	6	78	6	46	6	7774.0
Brewster & Ingrahams 8D T&S spg. 2								
brass spring, rack & snail, beehive	14	60	8	40	7	46	7	7885.7
EC Brewster & Son 8 Day 1								
Spring/Pend.	39	80	6	1	1	46	6	7973.33
Brewster & Ingrahams 8D T&S spg. 2								
brass spring, rack & snail, shelf	36	78	6	1	1	52	6	8112
Brewster & Ingrahams 8D T&S spg. 2								
gothic steeple	39	78	6	1	1	48	6	8112
Brewster & Ingrahams 8D T&S brass spg. 2								
E.O. Goodwin cottage	39	78	6	1	1	52	6	8788
JC Brown 8D T&S wgt 2								
ogee, 8 day	39	78	6	1	1	34	6	5746
JC Brown 8D T&S spg 2								
stencilled cottage	40	80	6	1	1	46	6	8177.8
Burr & Chittenden 30 hr. T&S wgt. 2								
split col. shelf, wood works	21	35	8	32	7	45	7	5400
JE Caldwell 8D T&S 1								
Weight/Pend., Tall case clock	64	60	8	1	1	30	8	3600
M. Cheeny 8D time only wgt. 2								
Tavern wall clock	72	64	7	1	1	30	7	5642.4
Chinese "Berliner" Regulator 4								
21D, Spg., "Shanghai China" plate	72	60	6	1	1	30	6	7200
Cuckoo Clock Mfg 30hr cuckoo 1								
100/171/24 center of plate	40	59	37	70	6	35	6	8681.68
Curtis & Dunning 2								
Weight banjo	64	60	7	1	1	30	7	4702
Walter Durfee 8D time only wgt. 2								
lyre banjo clock	82	78	9	1	1	30	9	4737.8
Elite 8D T&S Fusee 1								
S/P Germany # 72958	70	70	7	1	1	40	7	8000
Emperor 8D wstmin 1								
Wt/Pend., M-100 Erhard Junch #77	60	63	8	1	1	30	7	4050

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc Whl. pin.	Esc Whl.pin.	
Train								
Empire 8D T&S spg. 2								
english Gallery #E16763	78	68	7	1	1	40	6	10102.9
English 8D T&S 2								
fusee schoolhouse	70	58	7	1	1	35	6	6766.7
English Fusee Wall Clock 2								
8 Day T&S	70	58	7	1	1	35	6	6767
English 8D TO 2								
Fusee school, 'Cardiff'	84	78	7	1	1	33	7	8825.1
Made in England T&S 10								
Mantle clock	84	72	7	1	1	44	7	10861.7
Fashion CC 8D T&S spg 2								
Double dial made by Seth Thomas	30	28	20	90	7	60	9	7200
Forestville Mfg. 8D T&S 1								
Wt./Pend., brass works, wts. 91/2 lbs.	39	78	6	1	1	30	6	5070
Forestville Mfg. Co. 8D T&S 2								
fusee acorn shelf clock	39	78	6	1	1	39	6	6591
Freiburg Schlesien RA 8D T&S 1								
Wt./Pen.2 wgt vienna reg #212680	72	72	8	1	1	30	8	4860
French 8D w/chime spg. 2								
wall clock	84	72	8	1	1	32	8	6048
French 8D T&S spg. 2								
Baltazar marinot bracket clk ca 1730	72	70	6	1	1	30	7	7200
French 8D T&S spg. 2								
4 post black mantle FC 8-1	84	70	7	1	1	32	7	7680
French 8D T&S spg. 2								
O.E. Lancet shelf	84	84	7	1	1	28	7	8064
French 8 D T&S spg pend. 2								
Crystal Regulator, L.P. Japy 1878	84	70	7	1	1	34	7	8160
French Bakers Clock 2								
8 day T&S spring	84	68	6	1	1	26	6	8250.7
French 8D T&S spg. 2								
oval case crystal reg.	82	84	7	1	1	30	7	8434.3
French 8D T&S spg. 2								
crys. reg. A-1 9237 84	84	70	7	1	1	36	7	8640
French 8D T&S spg. 2								
crys. reg. A-1 6057-58	84	70	7	1	1	38	7	9120
French 10								
Mantel, rnd plates 3 3/4 inch								9360
French 8D T&S 2								
Crystal Reg.	84	70	7	1	1	39	7	9360
French 8D T&S spg. 2								
crys. reg. A-1 6242 55	84	70	7	1	1	39	7	9360
French Black Mantel 2								
8 Day T&S	84	70	7	1	1	40	7	9600
French 8D T&S spg. 2								
crys. reg. A-1 4238 52	84	70	7	1	1	40	7	9600
French 8D T&S spg. 2								
oval case crystal reg.	84	84	7	1	1	34	7	9792
French 8D T&S spg. 2								
black slate mantle	84	70	7	1	1	41	7	9840
French 8D T&S 2								
crystal regulator	72	60	6	1	1	41	6	9840

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc Whl. pin.	Esc Whl.pin.	
Train								
French 8D T&S spg. 2								
black slate mantle, count whl.	84	70	7	1	1	41	7	9840
French 8 T&S spg. 2								
tortise shell shelf clock	84	70	7	1	1	42	7	10080
French 8D T&S spg. 2								
black mantle #5628-48	84	70	7	1	1	42	7	10080
French 8D T&S spg. 2								
crys. reg. LB#2341 834-48	84	70	7	1	1	42	7	10080
French Crystal Regulator 2								
8 Day T&S, LeRoy	84	84	7	1	1	36	7	10368
French 8D T&S 2								
Mantle, Juvenaux	84	70	7	1	1	45	7	10800
French 8D T&S spg. 2								
Black Mantel	84	70	7	1	1	45	7	10800
French 8D T&S spg. 2								
crystal reg. H+H	84	77	7	1	1	41	7	10824
French 8D TO spg 2								
Porcelain w/ brass trim	84	84	7	1	1	38	7	10944
French 8D T&S spg. 2								
black slate mantle	84	70	7	1	1	45	7	11808
French 8D T&S spg. 22								
Black Mantel	84	84	7	1	1	41	7	11808
French brass wall clock 2								
8 Day TO spring	96	84	7	1	1	37	7	12178.3
French 8D time only spg. 2								
marine lever	54	40	6	48	6	15	6	14400
HAU Frieberg 10								
3 train wall clock								4860
Jonathan Frost 30 hr. T&S wgt. 2								
ogee	36	78	6	1	1	42	6	6552
German 8D w/chime spg. 2								
G/F	70	56	9	1	1	39	9	3774.8
German 8D T&S wgt. 2								
chain pull G/F	72	30	40	64	8	38	8	4104
German (Black Forest Wag). 2								
2 weight 30hr TSA	56	56	7	1	1	35	7	4480
German 8D time only wgt. 2								
Vienna	72	68	8	1	1	30	8	4590
German 8D w/chime spg. 2								
G/Daughter clk, #73, f plate 5340	70	64	8	1	1	34	7	5440
German 8D w/chime spg. 2								
Box Wall clock	70	56	7	1	1	36	7	5760
German 8D T&S spg. 2								
R-A Vienna + Freeswinger	84	70	7	1	1	26	7	6240
German RA 8D T&S 2								
Regulator	70	55	7	1	1	40	7	6285.7
German 8D T&S spg. 2								
mini R-A Vienna	80	72	7	1	1	33	7	7758.4
German 8D T&S spg. 2								
Lancet	96	78	7	1	1	28	6	9270.9
German 8D w/chime spg. 2								
fusee bracket clock	78	66	7	1	1	38	6	9315.4

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc Whl. pin.	Esc Whl.pin.	
Train								
German, 8D Westminster								
Pendulum, spring	84	79	7	1	1	44	7	10560
German 8D TO spg. 2								
small shelf clock w/ columns	48	45	8	40	7	24	7	10579.6
German 8D T&S spg. 2								
Smith+Patterson, Boston, mantle	84	70	7	1	1	45	7	10800
German 8D w/chime spg. 2								
tambour	48	40	8	46	8	33	8	11385
German 8D T&S 2								
Nessac & Co.	52	47	7	47	7	17	7	11386.3
GHS 30hr Cuckoo, Time/Cuckoo/Quail 1								
W/P, cast brass plt/whl 3 trns btwn pltes 6453.3	32	66	48	66	6	40	6	
Wm. Gilbert 8D T&S Banjo 1 1								
S/P front plate # 27, back plate # 383	26	40	8	40	8	30	8	4875
Wm. Gilbert 8D T&S 2								
S/P, # 64 wall regulator,	26	40	8	40	8	34	8	5525
Gilbert 8D Time only 1								
S/P, #20 also 84, steel A frameplates	26	40	8	40	8	36	8	5850
Wm. Gilbert 8D T&S 1								
S/P, wall regulator, Pat. June 3, 1879	26	40	8	40	8	34	7	6314.29
Gilbert 10								
"Admiral" school clock	26	40	8	40	8	34	7	6314.3
Gilbert 30 hr. T&S wgt. 2								
hollow column shelf clock	36	78	6	1	1	42	6	6552
Wm. Gilbert 8D TO 2								
S/P, mini wall regulator,	20	56	8	56	8	30	8	7350
Wm. Gilbert Clk Co. 8 Day 1								
Spring/Pend., stamped 1907 under post	26	40	7	40	8	39	7	8277.55
Wm. Gilbert Clk Co 8D kitchen 1								
Spring/Pend., Pat. June 3 1879 on rt. leg	26	40	8	40	7	42	7	8914.29
Gilbert 8D T&S spg. 2								
black mantle & steeple	26	40	8	40	7	42	7	8914.3
Wm. Gilbert mantle 8D T & S 1								
S/P., #25 back of plate, #341 on front.	26	48	8	48	7	30	7	9168.98
Gilbert 8D T&S spg. 4								
black mantle, 1908	26	48	8	48	7	30	7	9168.98
Gilbert 8D T&S								
pat June 3 1879	26	48	8	48	7	30	7	9168.98
Gilbert Tambour 4								
8 day, Spring, T&S, #30 on back plate	26	48	8	48	7	30	7	9169
Gilbert 8D T&S spg. '1912' 2								
mvt. 23, tambour & black mantle	26	48	8	48	7	30	7	9169
Gilbert Tambour 2								
8 Day T&S, Bim Bam, #24	26	48	8	48	7	30	7	9169
Gilbert 8D T&S 1								
S/P, 371 on fr. plt, 30 on solid back plt	26	48	8	48	7	30	7	9169
Gilbert, 8D T&S, spg.								
Small Kitchen, pendulum	26	40	8	40	7	44	7	9338.78
Gilbert 30 hr. T&S spg. 2								
cottage	14	48	7	40	6	44	6	9386.7
Gilbert 30 hr. T&S spg. 2								

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc Whl. pin.	Esc Whl.pin.	
Train								
steeple clock	14	48	7	43	6	43	6	9861.3
Gilbert 8D T&S								
#4 on Front Plate	26	40	8	40	7	48	7	10187.7
Hadlock 8D time only spg. 2								
wall regulator	64	60	7	1	1	33	7	5172.2
Haller 10								
Mini anniv., Horolovar plate 1521A								600
Hamilton triple chime spg. 3								
floating balance mantle	64	48	8	50	8	15	8	9000
Hermle 8D Westminster 1								
S/P, 351-020 31cm/128.5	86	72	8	1	1	39	8	7546.5
Hermle 8D grandfather, wgt./pend. 1								
triple chime, 1161-850 94cm/66.0	80	66	13	1	1	39	8	3960
Hermle 8D T&S 1								
Wt./Pend., 241-070 94cm/66.00	80	66	13	1	1	39	8	3960
Hermle/Mason & Sullivan 8D wgt. 1								
3 chime tall case, 1151-050 94cm/66.0	80	66	13	1	1	39	8	3960
Hermle 8D Westminster Tall Case 1								
W/P 451-053, 75 CM 75.83	70	60	9	1	1	39	8	4550
Hermle (for Seth Thomas) 8D T&S								
Banjo, S/P, A208-001, # 6410	76	60	8	1	1	39	8	5557.5
Hermle 8D T&S 1								
S/P, 141-071 45 CM 101.887	76	66	8	1	1	39	8	6113.25
Hermle 10								
#123								6179.06
Hermle 8D T&S 1								
S/P, 147-070, 43cm/104.56	78	66	8	1	1	39	8	6274.13
Hermle 8D T&S 1								
Spring/Pend., #141-70 38cm/111.15	76	72	8	1	1	39	8	6669
Hermle/Mason & Sullivan 8D westmin. 1								
Spring/Pend., 351-020 38cm/111.15	76	72	8	1	1	39	8	6669
Hermle 8D T&S spg pend 1								
31-030 118	48	59	10	40	10	25	8	7080
Hermle 8D T&S 1								
W/P, 261-080A, 125.78, Dutch zun dum	48	40	10	63	10	25	8	7560
Hermle 8D T&S 1								
W/P, 261-080A, 125.78, Dutch zun dum	48	40	10	63	10	25	8	7560
Hermle 8D T&S 1								
Spring/Pend., #141-070 29cm/130.37	78	72	7	1	1	39	8	7822.29
Hermle, very old Westminst chime 10								
like 340-020 but smaller fltg. balance								10080
Hubert Herr 30 hr. 1								
Weight/Pend., cuckoo clock	42	66	42	60	6	36	6	7920
Herr, Hubert 8D Cuckoo 1								
W/P	36	66	36	60	6	36	6	7920
Herschede 8D wgt./pend. 1								
Westmin & Canterbury 7tube (6+ hr.)	75	64	10	1	1	30	8	3600
Herschede 3 wt. G/M 2								
'77"	60	63	8	1	1	30	7	4050
Herschede Octagon short drop 8D TO 4								
Spring, Herschede Starkeville	71	62	7	1	1	40	8	6288.6
Herschede 8D spg. 3								

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl.pin.	Esc Whl.	Esc Whl.pin.	
Train								
14557-mantle, westmin,51/4" Pend.	86	74	7	1	1	38	7	9870.7
Hershede 8D 5 tube chime 1								
W/P, Ser # 79818	75	64	10	1	1	30	8	3600
Hotchkiss & Benedict 8D T&S 1								
W/P, wt: 9 lbs.	64	60	8	1	1	42	8	5040
E. Hotchkiss Jr. 30 hr. T&S wgt. 2								
split column shelf, wood wks.	40	36	8	32	8	32	8	5760
Spencer & Hotchkiss 8D T&S 2								
Salem Bridge	72	60	9	1	1	60	8	7200
Howard 8D time only wgt. 2								
#6 figure 8	96	90	12	1	1	30	12	3600
Howard 8D time only wgt. 2								
#2 banjo	82	78	9	1	1	25	9	3948.1
Howard 8D time only wgt. 2								
#8 figure 8	82	79	9	1	1	26	9	4158.7
Howard 8D time only wgt. 2								
Howard & Davis #4 banjo	64	60	7	1	1	29	7	4545.3
Howard 8D time only wgt. 2								
#9 figure 8	82	78	9	1	1	29	9	4579.9
Howard & Davis 8D time only wgt. 2								
#5 banjo	64	60	7	1	1	30	7	4702
Howard 8D time only wgt. 2								
#5 banjo & 34" figure 8	82	78	9	1	1	30	9	4737.8
Howard 8D TO 2								
Marble front, mvmt #27	82	79	9	1	1	32	9	5118.4
Howard 8D time only wgt. 2								
marble front, lg. regul., . fr. plt 27-203/4	82	79	9	1	1	32	9	5118.4
Howard 8D time only wgt. 2								
24" square marble front	96	90	9	1	1	32	9	6826.7
L+A Hutchins 8D time only wgt. 2								
early banjo	64	60	7	1	1	30	7	4702
INDIA for S. LaRose 8D Time only 1								
Spring/Pend., short drop school house	26	40	8	40	7	33	7	7004.08
Ingrahams 8D T&S 2								
Banjo	26	40	8	40	7	25	7	5306.1
Ingrahams 8D time only spg. 2								
banjo, front plate 10-17	26	40	8	40	7	25	7	5306.1
Ingrahams 8D TO spg pend 2								
Long Drop "Hartford"	26	40	8	40	7	38	7	5518.4
Ingrahams Ionic 2								
8 Day TO, 29" case	26	40	8	40	7	27	7	5730.6
E. Ingraham 8D T only 1								
S/P, upside-down esc., rnd Gallery clk	26	40	8	40	7	30	7	6367.35
Ingrahams 8D time only spg. 2								
11/30 front plate, school clock	26	40	8	40	7	31	7	6579.6
Ingraham 8D T&S 1								
S/P Calendar shelf	26	40	8	40	7	32	7	6791.8
Ingrahams 8D time only spg. 2								
dew drop cal. school clock	26	40	8	40	7	32	7	6791.8
E. Ingraham 8D T only 1								
Spg./Pnd., marked 1 20	26	40	8	40	7	32	7	6791.84
Ingrahams 8D TO spg pend 2								

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl.pin.	Esc Whl.	Esc Whl.pin.	
Train								
Ionic Wall Regulator	26	40	8	40	7	33	7	7004.1
Ingrahams 8D T&S spg. 2								
Doric mosaic front	26	40	8	40	7	39	7	8277.6
Ingrahams 8D T&S spg. 2								
Doric mosaic front	26	40	8	40	7	39	7	8277.6
Ingrahams 8D T&S spg. 2								
12/29 front plate, solid back plate	26	40	8	40	7	40	7	8489.8
E. Ingraham kitchn 8D T & S 1								
Spring/Pend.,Pat. Oct 8 78 Nov 11 79	26	40	8	40	7	40	7	8489.8
Ingraham spg. 3								
kitchen strike, 71/8" Pend.	26	40	8	40	7	40	7	8489.8
Ingraham 8D T&S kitchen 1								
S/P #12 L side, #18 Rside, brass plates	26	40	7	40	8	40	7	8489.8
Ingraham 8D T&S Kitchen 1								
S/P Pin Posts, Pat Oct 8 78, Nov 11 79	26	40	8	40	7	40	7	8489.8
Ingraham 8D T&S spg. pend 1								
# 6 left side, # 08 right side plate	26	40	8	40	7	40	7	8489.8
E. Ingraham 8D T&S 1								
S/P, Lside #1, Rside #98, stl plt no bush	26	40	8	40	7	42	7	8914.3
E. Ingraham kitchen Clock 4								
8 day T&S, Pat Oct 8, 78; Nov 11, 79	26	40	8	40	7	45	7	9551
E. Ingraham, 30 hr T&S, spg.								
pat. Oct 8 78 & Nov 11 79	10	48	6	48	4	45	6	9600
Ingrahams 8D T&S spg. 2								
'Lomino' blk mntl Pat. 10-8-78, 11-11-79	26	40	8	40	7	48	7	10187.8
Ingrahams 8D T&S spg. 2								
blk mantle	26	42	8	42	7	48	7	11232
Ingrahams 8D T&S spg. 2								
blk mntl & 'Nemo' Pat 10-8-78,11-11-79	26	42	8	42	7	48	7	11232
E. Ingraham spg. 3								
6-35 kitchen 41/4" Pend.	26	42	8	42	7	48	7	11232
Ingrahams 8D T&S spg. 4								
blk mantle - # 10 front plate	26	42	8	42	7	48	7	11232
E. Ingraham spg. 5								
Front Plate 5 13	26	42	8	42	7	48	7	11232
Ingrahams 8D time only spg. 2								
'Maxim' 8 sided gallery	26	42	8	42	7	48	7	11232
E. Ingraham 8D T&S 1								
S./P.,name on plate,#12 left, #23 right	26	42	8	42	7	48	7	11232
Ingraham 8D T&S spg pend 1								
11 on left, 26 on right	26	42	8	42	7	48	7	11232
E. Ingraham Black Mantle 4								
"11/13" mfg. date, 8 day T&S	26	42	8	42	7	48	7	11232
Intl. Time Recorder Co., London 8D T only 1								
S/P,made USA,stamped 100,50812,037 64	60	8	1	1	50	8	6000	
Ithaca 8 Day 1								
S/P,Ithaca grandfather T&S #34	26	44	10	39	8	34	10	3792.36
Ithaca 8D T&S spg. 2								
G/F	26	39	8	44	10	34	10	3792.4
Ithaca 8D Weight 2								
wall DD Double Wt.	72	60	8	1	1	30	8	4050

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc	Esc Whl.pin.	
Train								
Ithaca 8D Double Wt. Cal. 2								
Bank Regulator #1	72	60	8	1	1	33	8	4455
Ithaca #1 Regulator 2								
Bank Calendar, 8 Day, Weight	72	60	8	1	1	33	8	4455
Ithaca 15D time only spg. 2								
Killdare cal. wall clock	60	50	6	1	1	40	6	6666.7
Ithaca 30D time only spg. 2								
office #4 cal.	66	66	7	1	1	33	6	6845.1
Ithaca 8D T&S spg. 2								
3/4 parlor shelf cal.	26	40	8	40	7	35	7	7428.6
Ithaca 8D T&S spg. 2								
skeleton clock cal.	14	48	6	40	6	40	6	9955.6
Ives 30D time only 2								
wagon spring	9	78	6	32	6	36	8	5616
Jahrsuhren Fabrik 8D cuckoo 1								
Wt./Pend., Shatz #50	70	60	7	1	1	36	6	7200
JAPAN see note 3, 8D T & S 1								
Spring/Pend., long drop school house	26	40	7	40	8	33	7	7004.08
Japanese 31 Day T&S 5								
no further info	15	61	10	61	8	33	8	5755.9
Japanese 8D T&S 2								
School clock	26	40	8	40	7	33	7	7004.1
Japanese 8D T&S spg. 2								
school clock	24	40	8	40	7	36	7	7053
Japanese 8D T&S spg. 2								
early mini school clock	24	42	8	42	7	30	6	7560
Japanese 8D T&S spg. 2								
school clock	26	40	8	40	7	38	7	8065.3
Jauch wgt. 3								
triple chime German G.F.	64	50	8	1	1	36	8	3600
Jauch Grandmother 8								
Chain pull weight, pendulum	64	50	7	1	1	40	8	4571.4
Jauch 8D T&S 8								
Spring, Pendulum 21 cm, "12 74" stamp	84	1	1	66	7	40	8	7920
Jauche 10								
Modern 10 1/2 inch pend						40		6300
Jerome 8-Day T&S wgt. 2								
shelf	41	84	7	1	1	42	7	6048
Jerome 30 hr. T&S wgt. 2								
ogee	36	78	6	1	1	42	6	6552
Jerome & Co. 1								
Wt./Pend.	36	78	6	1	1	42	6	6552
Jerome 30hr. T&S wgt. 2								
ogee	36	80	6	1	1	42	6	6720
Jerome 30 hr. time only spg. 2								
'Paris' marine lever escapement.	48	52	7	40	7	10	6	6791.8
Jerome 30 hr. T&S wgt. 2								
ogee	36	78	6	1	1	46	6	7176
Jerome 30-hr. T&S Spring 2								
cottage	10	54	6	42	6	42	6	8820
Jerome 8D T&S Spring 2								
iron front	26	40	8	40	7	42	7	8914.3

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc	Esc Whl.pin.	
Train								
C. Jerome 30hr T.A. 2								
Mini steeple	40	36	8	32	7	34	6	9325.7
Jerome 30 hr. time only spg. 2								
'Squire' blinking eye	60	48	8	40	8	21	6	12600
Abner Jones 8D T&S 1								
Wt./Pend., 55" case	60	56	8	1	1	36	7	4320
Junghans 10								
B10	60	56	8	1	1	40	8	4200
Junghans 8D T&S 4								
Pend., cable, "Remember, CVRM Co"	74	70	8	1	1	30	8	4856.3
Junghans 8D T&S spg. 2								
wall clock	70	55	7	1	1	40	7	6285.7
Junghans 8D T&S spg. 2								
R-A vienna	70	62	7	1	1	40	7	7085.7
Junghans 8D w/chime spg. 2								
bracket clock # B09	84	70	8	1	1	40	7	8400
Junghans 8D T/Westminster 1								
S/P, B11. Lower right corner 140	84	70	8	1	1	40	7	8400
Junghans 8D Westminster								
A13 104 Spring, pendulum	84	70	8	1	1	40	7	8400
Junghans 8D w/chime spg. 2								
bracket clock # B10	84	70	8	1	1	40	7	8400
Junghans spg. 3								
B06 mantle, 73/4" Pend.	84	70	8	1	1	40	7	8400
Junghans 8D Westminster w/chime correction 1								
W/P, 7.14 on back plt, 140 bt ct	84	70	8	1	1	40	7	8400
Junghans 8D T&S. 2								
mantel clock	88	63	7	1	1	40	7	9051.4
Junghans 8D T & S 1								
S/P, no markings	76	66	7	1	1	40	6	9554.29
Junghans 10								
W200	105	86	7	1	1	26	6	11180
Keininger 8D T&S 1								
Wt./Pend., no markings	30	80	60	72	8	40	8	3600
Kienzle 8D T Westminster 1								
S/P, #144463 64/86 1/4	70	55	7	1	1	31	7	4871.43
Korean 31D T&S spg. 4								
23 " Pendul.801XL on plate	70	68	9	1	1	37	9	4348.68
Korean 31D, T&S spg.								
H.T. Clockmakers NY # 43	70	70	8	1	1	34	8	5206.25
Korean 31D T&S spg. 2								
School Clock	70	70	7	1	1	30	8	5250
Korean 31D T&S spg. 4								
Wang JA on plate	70	68	7	1	1	30	7	5828.57
Korean 31D T&S spg. 2								
Pendulum Clock, K.E.C.	71	69	7	1	1	35	8	6123.5
Korean 31D T&S spg. 2								
San Sung K-E-C	71	69	7	1	1	35	8	6123.75
Korean 8D T&S spg. 2								
School Clock	26	40	8	40	7	33	8	6128.6
Korean 31D T&S spg. 4								
Vienna 29 cm pendl.	90	87	8	1	1	30	9	6525

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc	Esc Whl.pin.	
Train								
Korean 31D T&S spg. 4								
Pendulum Clock	90	85	8	1	1	32	9	6800
Korean 31D T&S spg. 2								
Rolens Watch Co. mini vienna	72	70	7	1	1	35	7	7200
Korean 31D T&S spg. 2								
gingerbread clock	72	70	7	1	1	36	7	7405.7
Kroeber 8D T&S spg. 2								
#5, Pat. 6-23 & 10-6-74	26	40	8	40	7	34	7	7216.3
Kroeber, 8D T&S spg pend								
Mantel, upside down verge	26	45	8	45	7	39	7	10476.3
Lane, Joel Ogee 30-hr Wt. 2								
ogee	36	78	6	1	1	42	6	6552
Leavenworth, Mark WW 1								
Wt. pendl, wood works	24	42	24	36	8	41	8	7506.84
Litchfield Mfg. Co. 8-D 2								
gallery Pat. 18 51	45	48	6	36	6	15	6	10800
George Marsh 30 hr. T&S wgt. 2								
ogee	36	78	6	1	1	42	6	6552
Lamuel Marti (French) 8D T&S 1								
Spg./Pen., Paris 1900, marked H+H	84	70	7	1	1	43	7	10320
Mason & Sullivan 8D TO 2								
Spring	52	47	8	47	10	17	10	4881.9
Mason & Sullivan 8D w/chime spg. 2								
351-020 wag-on-wall	76	72	8	1	1	39	8	6669
Muthe (Germany) 8D T&S 1								
W/P, PL98 DS66 2/3	30	80	60	70	8	40	7	4000
Mauthe Germany 8D china 1								
Spring/P.,65 mm rnd. plts stamped 18	54	48	7	45	7	16	8	9521.6
Howard Miller spg. 3								
triple chime wall	76	66	8	1	1	39	8	6113.3
Howard Miller 8D time only spg. 2								
Ionic wall calendar	72	56	7	1	1	38	7	6253.7
Howard Miller 14D T&S spg. 2								
New England Clock Co. cal school	76	72	8	1	1	39	8	6669
Asa Munger 8D T & S 1								
Weight / Pend	64	60	8	1	1	42	8	5040
Nessac Cogerman 8D T&S 2								
Mantel	52	47	7	47	7	17	7	11386
New Haven 30hr time only spg. 2								
mini GF (9" tall)	60	56	8	56	7	17	7	1632
New Haven???? 8D T & S 1								
Wt./P.,bridge for susp. spr.&D.B. esc.	25	40	8	40	9	30	9	3703.7
New Haven 30D 2								
Spring banjo, aux wheels 13/52	64	42	8	35	7	38	7	4560
New Haven 8D T & S 2								
Banjo	26	38	8	38	8	39	9	5084
New Haven 8D T only spg./pend. 2								
Sauer's Advertising Wall Clock	25	39	8	39	8	40	9	5281.3
New Haven 8D T only spg./pend. 1								
school house long drop	39	78	6	1	1	38	7	5504.57
New Haven 8D T&S spg. 2								
mission wall clock	26	40	8	40	8	34	8	5525

Clock Manufacturer Clock Description	Cen	3rd Whl.	3rd Whl.pin.	4th Whl.	4th Whl. pin.	Esc	Esc Whl.pin.	
Train								
New Haven 8D T & S 2								
Banjo	26	42	8	38	7	38	10	5631.6
New Haven 8D T & S 2								
Long Drop School	26	42	8	38	7	38	10	5631.6
New Haven 8D time only spg 2								
mini banjo	25	42	8	39	7	40	9	6500
New Haven 8D T&S spg. 2								
mission shelf	26	42	8	42	7	28	7	6552
New Haven 30hr 10								
OG								6772
New Haven 8D T only 1								
S/P, 9 3/4 stamped on plate	25	42	8	39	7	38	8	6946.88
New Haven 8D T&S spg. 2								
scroll bottom sch. clock w/inlay	26	42	8	38	7	38	8	7039.5
New Haven 8D T&S 2								
Marquetry	40	80	6	1	1	40	6	7111.1
New Haven 8D T&S spg. 2								
marquetry scroll bottom sch. clk.	40	80	6	1	1	40	6	7111.1
New Haven 8D T&S spg. 2								
paper mache w/mother of pearl inlay	40	80	6	1	1	42	6	7466.7
New Haven 30 hr. T & S 1								
Spring/Pend.	14	60	8	50	7	37	7	7928.57
New Haven Clock 30 hr. 1								
Spring/Pend.,No markings on works	14	50	7	60	8	37	7	7928.57
New Haven 8D T only 1								
S/P,short drop school, oblong plt.	25	42	8	42	7	36	7	8100
New Haven 8D T & S 2								
spring, papier mache shelf	40	80	6	1	1	46	6	8177.8
New Haven 8D T & S 2								
Spring/Pend.,papier mache case	40	80	6	1	1	46	6	8177.8
New Haven 8D T&S spg. 2								
hanging ginger bread	25	42	8	42	7	37	7	8325
New Haven 8D T & S 2								
Spring/Pend., black mantel clock	26	60	8	60	8	28	7	9000
New Haven 30hr T&S 1								
S/P	14	60	8	50	7	42	7	9000
New Haven 30hr T&S 2								
cottage	14	60	8	50	7	42	7	9000
New Haven 30 hr T&S 2								
Cottage	14	60	8	50	7	42	7	9000
New Haven 8D T&S 2								
'Aurec' Lancet spring	26	42	8	42	7	41	7	9594
New Haven 8D T & S 1								
Spring/Pend.,mantel clock	26	42	8	42	7	41	7	9594
New Haven 8D spg. 2								
Tambour w/ chime	48	47	8	47	8	24	8	9940.5
New Haven 8D T & S 2								
Spring/Pend., cottage clock	26	42	8	45	7	42	7	10530
New Haven 8D TO 2								
Mini schoolhouse, front plate "325"	25	45	8	45	7	41	7	10589.9
New Haven 8 D Mini Schoolhouse 2								
(325) on front plate, T&S	25	45	8	45	7	41	7	10590

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	pin.	Whl.	pin.	Whl.	pin.	
Train								
New Haven 8D TO 2								
Spring, mini banjo	60	56	8	56	7	17	7	16320
New Jersey Clock Co. 8D time only spg. 2								
porc. plate clock	60	68	6	1	1	44	6	9973.3
OML German 8D T&S spg./pend 1								
#50882	84	70	7	1	1	26	7	6240
Geo. B. Owen 8D T & S 1								
S/P., Pat. June3 ,1879 instead Conn.	18	43	7	40	7	39	6	8213.88
Pequegnat, Arthur 15 D TO spg pend 1								
2 main springs 3/8 X .0155 x 101 "	64	60	8	1	1	42	8	5040
Pequegnat 10								
Time & calendar wall clock	25	39	8	42	8	39	8	6238.5
Perrivale 10								
Heavy plate Westminster. Chime	68	63	6	1	1	44	6	10472
Planet (British) 8D T only 1								
Spg/P., wall clk, bot of plate 4650, rs 15 84	77	7	1	1	39	7		10296
N. Pomeroy 8D T&S spg./pend. 1								
made for Ithaca Cal., pat July 13 1869	26	40	8	40	7	39	7	8277.55
N. Pomeroy 8D T&S spg 2								
cottage	26	40	8	40	7	42	7	8914.3
Regula 8D cuckoo 1								
W/P, Pat# 812538, same as 30hr below	36	66	36	60	6	36	6	7920
Regula 30 hr. 1								
Weight/Pen. ,T&S cuckoo Pat# 812538	36	66	36	60	6	36	6	7920
Regula 8D cuckoo 1								
Weight/Pend., #34 34/1/72	36	64	36	77	6	35	7	8213.33
J.N. Richardson 8D time only spg. 2								
Howden England, early fusee gallery	84	78	7	1	1	33	7	8825.1
Ridgeway GF 8 Day 1								
Weight/Pend., Urgos UW 3/1 #22979	28	80	56	80	8	36	8	3600
Ridgeway (Urgos) 8D T&S 1								
W/P Tall case, no markings	72	56	8	1	1	30	7	4320
Ridgeway 8 Day 1								
Weight/Pend., Urgos mvmnt. #4W 32/1	72	56	8	1	1	30	7	4320
Schatz 400D spg./pend. 1								
#49 plate 1278 M/S 19x36 S/S 1004	96	1	1	1	1	20	8	480
C. H. Schlenker 8D TO 1								
S/P	46	36	7	30	6	25	6	9857.1
E. Schneckenbecher 8D T&S 1								
Weight/Pend., H 65/72	36	51	36	77	7	35	7	5610
Sessions 8D TO 1								
S/P, wall clock	26	40	8	40	8	29	8	4712.5
Sessions 8D T&S spg. 2								
mission wall clock	26	40	8	40	8	34	8	5525
Sessions 8 Day Time & Cal 4								
Spg./Pend., Regulator	26	40	8	40	8	34	8	5525
Sessions 8D time only spg. 2								
banjo	26	40	8	40	8	34	8	5525
Sessions 8 Day Time only 1								
Spg./Pend., Box Regulator	26	40	8	40	8	34	8	5525
Sessions (movement) 10								
Mission "Newspaper" clock	26	40	8	40	8	34	8	5525

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	pin.	Whl.	pin.	Whl.	pin.	
Train								
Sessions 8D TO 2								
School clock	26	40	8	40	8	36	8	5850
Sessions 8D T&S spg. 2								
school clock	26	40	8	40	8	39	8	6337.5
Sessions 8D TO 1								
S/P Short Drop Schoolhouse	26	40	7	40	8	36	8	6685.71
Sessions 8D time only spg. 2								
school clock	26	40	8	40	7	32	7	6791.8
Sessions mission oak 7								
Shelf clock, 8D T&S	26	40	8	44	8	32	6	7626.7
Sessions spg. 3								
kitchen clock	26	40	8	40	7	41	7	8702
Sessions 8D T&S spg. 2								
(in a welch steeple clock)	26	40	8	40	7	41	7	8702
Sessions Clock Co. 8D kitchen 1								
Spring/Pend., Forestville Conn stamped	26	40	7	40	8	41	7	8702.04
Sessions 8D T&S spg. 2								
cottage, blk mantle, bim bam tambour	26	42	8	44	7	34	6	9724
Sessions Clock Co. 8 Day 1								
Spring/Pend., 2 trn wstmin., Pat 1700506	26	42	8	44	7	34	6	9724
Sessions 8 Day T&S 4								
Spring/Pend., short steeple	26	42	8	44	7	34	6	9724
Sessions 8 Day 1								
Spring/Pend., tambour style	26	42	8	44	7	34	6	9724
Sessions 8 Day T&S 2								
Spring/Pend., cottage style	26	42	8	44	7	36	6	10296
Seth Thomas 8D time only wgt. 2								
#9 regulator	64	60	8	1	1	36	8	4320
Seth Thomas 8D TO 8								
W/P, #2, "77B" stamp	64	60	8	1	1	40	8	4800
Seth Thomas 15D time only spg. 2								
'world' school clock	64	60	8	1	1	40	8	4800
Seth Thomas 8D T&S spg pendl 2								
Umbria # 40 on front plate	28	30	20	90	7	40	9	4800
Seth Thomas 8D time only wgt. 2								
#1 regulator	64	60	8	1	1	40	8	4800
Seth Thomas 8D time only spg. 2								
#41 AN, long drop school	39	76	6	1	1	30	6	4940
Seth Thomas 2								
office cal. #1	80	72	8	1	1	30	8	5400
Seth Thomas 8 Day 1								
Spring/Pend., #41M long drop school	39	84	6	1	1	30	6	5460
Seth Thomas 8D T&S Banjo 1								
spg pend, round plates	48	48	8	36	8	28	13	5582.77
Seth Thomas 8D T&S spg. 2								
3/4 banjo movt. # 120J	48	48	8	36	8	28	13	5582.8
Seth Thomas 8D T&S 1								
W/P #17 1/4	32	36	8	36	8	31	7	5739.4
Seth Thomas 8D T&S wgt. 2								
hanging lunar	36	72	6	1	1	40	6	5760
Seth Thomas 2								
lg. gallery mvt #40	64	60	8	1	1	50	8	6000

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.
Train								
Seth Thomas 30 day 2								
gallery mvt. # 86V	64	60	8	1	1	50	8	6000
Seth Thomas 8D Time only 1								
Spring/Pend., #123 short drop school	26	40	8	39	8	39	8	6179.06
Seth Thomas 8D T&S wgt. 2								
Garfield shelf	32	36	8	36	8	34	7	6294.9
Seth Thomas 8D TO spg pend 1								
# 4121	56	51	10	56	10	30	15	6397.44
Seth Thomas 30 hr. T&S wgt. 2								
early ogee Plymouth Hollow	36	78	6	1	1	42	6	6552
Seth Thomas 30 hr T & S 1								
Wt./Pend., OGG	36	78	6	1	1	42	6	6552
Seth Thomas 30hr T&S 6								
W/P, ogee	36	78	6	1	1	42	6	6552
Seth Thomas 8D T&S wgt. 2								
Calendar shelf	36	72	6	1	1	46	6	6624
Seth Thomas 8 Day Time Only 2								
mvt. # 41A spring	39	84	6	1	1	38	6	6916
Seth Thomas 8D TO spg pend 1								
# 41 AF short drop school house	39	84	6	1	1	38	6	6916
Seth Thomas 8D T&S spg./pend 1								
44 AH large wheels, also 9 1/2	39	84	6	1	1	38	6	6916
Seth Thomas 8D T&S spg. 2								
mvt. # 44F, school clock	39	84	6	1	1	38	6	6916
Seth Thomas spg. 3								
German made regulator	50	41	10	50	9	25	8	7118
Seth Thomas 8D time only spg. (wag on wall) 2								
German made, A020-011, ca. 1971	50	41	10	50	9	25	8	7118.1
Seth Thomas Self Winding 2								
Gallery (2 Dry Cells)	64	60	8	1	1	60	8	7200
Seth Thomas 8D time only spg. 2								
Cinn. Time Recorder Co. time clk.	64	60	8	1	1	60	8	7200
Seth Thomas 30D T/O spg pend 1								
# 86 T, 2 main springs 3/4x.017x120"	64	60	8	1	1	60	8	7200
Seth Thomas 8D T&S spg. pend 2								
Mini Pillar & Scroll ca. 1920	26	40	8	40	8	39	7	7242.9
Seth Thomas 8D TO 2								
Spring, schoolhouse, #41E	39	84	6	1	1	40	6	7280
Seth Thomas 30 hr. wgt./pend. 1								
wood works pillar&scroll	40	36	8	32	8	42	8	7560
Seth Thomas 8D T&S 2								
Mini pillar & Scroll, A200-035	56	56	10	53	10	30	13	7671.1
Seth Thomas 8D T&S spg. 2								
lyre movt., Plymouth Conn.	39	84	6	1	1	44	6	8008
Seth Thomas 8D T&S 1								
S/P, large whls, 63/4 (differs from 30 hr)	39	84	6	1	1	44	6	
8008								
Seth Thomas 8D time only spg. 2								
#41S school clock	39	82	6	1	1	46	6	8172.7
Seth Thomas 30 hr. T&S spg. 2								
md. plts, mini Empire, Plymouth, Conn.	14	60	8	40	7	48	7	8228.6
Seth Thomas 2								

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.
Train								
shelf clock	39	84	6	1	1	46	6	8372
Seth Thomas 8D T&S 1								
Spg/P., 57/8stmpd on plate, lge. wheels	39	84	6	1	1	46	6	8372
Seth Thomas Tampa 8D T&S 2								
shelf clock	39	84	6	1	1	46	6	8372
Seth Thomas 8D T&S spg. 2								
steeple ca. 1910	56	56	10	54	10	30	12	8467.2
Seth Thomas 8D TO 2								
Gallery #123A	26	45	8	48	8	39	8	8555.6
Seth Thomas 2								
mvt. #89A, steeple clk, 2 pc. front pl.	26	45	8	48	8	39	8	8555.6
Seth Thomas 30 hr. T&S spg./pend 1								
5.5	14	45	7	60	8	46	7	8871.43
Seth Thomas 8 D, T&S spg - pend 1								
A 208-002	84	76	8	1	1	39	7	8892
Seth Thomas 8D T&S spg. 2								
crystal reg. #48M	16	62	8	64	7	28	7	9069.7
Seth Thomas 8D time only spg. 2								
10" dial gallery	39	84	6	1	1	50	6	9100
Seth Thomas 8D T&S spg. 2								
'Tory' mantle #48A	16	66	8	64	7	28	7	9654.9
Seth Thomas 8D T&S spg. 2								
Lancet, #B-48R	16	66	8	64	7	28	7	9654.9
Seth Thomas 8D mantle 1								
Spring/Pend., # 89, lower left leg AL89	26	42	8	45	7	39	7	9777.86
Seth Thomas 8D T & S 2								
# 89 C	26	42	8	45	7	39	7	9777.86
Seth Thomas 8D T & S 1								
Spring/P., same as #89 but no split plate	26	42	8	45	7	39	7	9777.86
Seth Thomas 8D spg. 3								
#89, 51/2" Pend.	26	42	8	45	7	39	7	9777.9
Seth Thomas 8D T&S spg. 2								
mvt. #89 & 89AL, tambour	26	42	8	45	7	39	7	9777.9
Seth Thomas 8D T&S spg. 2								
6 column blk. mantle #89AD	26	42	8	45	7	39	7	9777.9
Seth Thomas 8D Westminster 1								
S/P, #113 A	84	74	7	1	1	39	7	9894.86
Seth Thomas 8D spg. 2								
'chime #72', mvt #113A & 113	84	74	7	1	1	39	7	9894.9
Seth Thomas 8D T&S spg pend 1								
D-51-H 15 day round plates	46	60	8	60	10	24	10	9936
Seth Thomas 8D T&S spg. 2								
mvt. # 48S, crystal reg.	16	62	7	64	7	28	7	10365.4
Seth Thomas 8D spg. 3								
#124, Westminster, 43/4" Pend.	48	48	8	42	8	28	8	10584
Seth Thomas 8D T&S spg. 2								
Tambour mvt #20	48	48	8	42	8	28	8	10584
Seth Thomas 8D Westminster 1								
Spring/Pend., #124	48	48	8	42	8	28	8	10584
Seth Thomas 8D T&S spg. 2								
black mantle	26	40	8	40	7	50	7	10612.2
Seth Thomas 8D T&S mantle 1								

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	pin.	Whl.	pin.	Whl.	pin.	
Train								
Spring/Pend., 35/8stamped on leg	26	40	8	40	7	50	7	10612.2
Seth Thomas 8D T&S spg pend 2								
Tambout, # 48J	16	64	7	64	7	28	7	10699.8
Seth Thomas 8D T & S 1								
S/P.,rnd. plates, open escope + springs	16	64	7	64	7	28	7	10699.8
Seth Thomas 8 D T&S Tall Case 1								
EQA 30, spg drive converted to wt.	30	90	7	28	20	90	9	10800
Seth Thomas 30 hr. T&S spg. 2								
cottage	36	36	7	36	7	40	7	10881.9
Seth Thomas Sons & Co., NY, 8D TO, 3 1/4" rnd mvmt 7								
hi-qual w/cut pinions, 356 stmp on back	52	60	8	60	10	24	10	11232
Seth Thomas 8D T&S spg. 2								
mini tombstone	14	60	7	48	7	48	7	11284.9
Seth Thomas 8D T&S spg. 2								
mantle	48	48	8	48	8	28	8	12096
Seth Thomas 8D T & S 1								
Spring/Pend.,#120F round plates	48	48	8	48	8	28	8	12096
Seth Thomas 30 hr. T&S spg. 2								
ships bell	60	48	8	48	6	15	6	14400
Seth Thomas 30 hr. 1								
Spring/bal-lever,Ships clock circa 1865	60	48	8	48	6	15	6	14400
Seth Thomas 30 hr. 2								
'1907', long alarm	48	45	6	48	6	15	7	14400
Simplex 8B T only 1								
S/P, Simplex time recorder model T-10	64	60	8	1	1	50	8	6000
Smith, Henry 30-hr T&S Weight 2								
Ogee	36	77	6	1	1	42	6	6468
Smiths (English) 8D T&S 1								
S/P, #532	84	72	7	1	1	44	7	10861.7
Sohm Electric-wind short drop 4								
150 Years of Electrical Horology p. 66								4800
Sohm Electric-wind long drop 4								
150 Years of Electrical Horology p. 66			0					7200
Southern Calendar Clock Co. 2								
Fashion DD shelf	30	28	20	90	7	60	9	7200
Sperry & Shaw 30 hr. T&S wgt. 2								
4 column shelf w/waffel wgt	36	78	6	1	1	42	6	6552
Sunderlin 8D T only wgt./pend. 1								
L. Sunderlin Rochester N.Y.	64	60	7	1	1	30	7	4702.04
Eli Terry Jr. 8D T&S wgt./pend. 1								
mantel wood works	36	30	9	32	8	42	8	5040
Terry 8D T&S spg. 2								
iron case mini school clock	40	48	8	40	8	30	10	7200
Terry clock Co. 8D time only spg. 2								
iron case mini school clock	48	40	8	40	8	30	10	7200
Eli Terry 30 hr. T&S wgt. 2								
O.E. pillar&scroll, wood works	18	48	9	40	8	60	8	7200
Terry & Sons 30 hr. T&S wgt. 2								
Pillar & scroll, wood works	40	36	8	32	8	42	8	7560
Terry & Andrews 30hr T&S 1								
S/P	14	60	8	40	7	48	7	8228.6
Terry 30 hr. time only spg. 2								

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	pin.	Whl.	pin.	Whl.	pin.	
Train								
porc. candle stick	36	36	6	40	6	24	6	11520
Timby 8D time only spg. 2								
solar clock	60	56	8	45	7	15	7	11571.4
Uhren Fabrik 8D TO 2								
Plate clock	54	48	7	45	7	15	7	10201.7
Unknown 8D T&S, bell strike 1								
W/P, sm. bell 1/4hr, 1 hr on large bell	60	56	8	1	1	30	7	3600
Unknown 8D T & S 1								
Wt./Pend., English bell strike	60	56	8	1	1	30	7	3600
Unknown 10								
mvt marked pend 73cm								4200
Unknown 30 hr. T&S wgt./pend. 1								
wood works	40	32	8	36	8	32	8	5760
Unknown								
Spring /Pend.,Japan?long drop school	28	40	7	40	8	31	8	6200
see note 2 below, 8D T & S 1								
Spring/Pend.,wall clock	70	55	7	1	1	40	7	6285.71
see note 5 below, 31D T & S 1								
Spring/Pend.	72	70	8	1	1	35	7	6300
Unknown Cuckoo 30 hr. 1								
Weight/Pend.,3 trains, worm wheel gov.	36	60	7	66	36	36	6	
6788.57								
Unknown, 30 hr. cuckoo 1								
Wt/P.,count whl stmpd brass,lyre plates	24	72	36	66	6	39	6	
6864								
Unknown								
Weight/Pend.,Dutch Zaandam	71	60	7	1	1	36	6	7302.86
Unknown 8D T&S kitchen 1								
S/P, 61/2 on leg, cnt whl fast to grt whl	26	40	8	40	7	39	7	8277.6
Unknown 30hr Cuckoo 1								
W/P, box low right side reads B100 15040	70	6	59	37	35	6	8681.7	
Unknown								
Spring/Pend.	14	48	7	40	6	44	6	9386.67
Unknown 8D T only spg./pend. 1								
orig. from Nova Scotia, 80 -100 yrs. old	42	84	6	1	1	50	6	9800
see note 1 below for markings, 8D china 1								
Spring/Pen.,65 mm rnd. plates, T only	54	48	7	45	7	16	7	10881.9
Unknown 30 hr. 1								
Spring/Pend.,Oblong pltes 13/x23/ x1 d.42	39	7	40	7	30	7	11461.2	
no sus. spring, verge solid to pend., hangs 1								
on outboard pivot bridge, see note 4	54	60	7	48	7	16	8	12695.5
Unknown								
Spring/Bal.,Made in USA	48	48	6	45	6	15	6	14400
Unsigned 8D T&S wgt.								
early New England G/F	64	60	8	1	1	30	8	3600
Unsigned 8D time only wgt. 2								
English wall regulator	300	1	1	1	1	60	10	3600
Unsigned 30d 2								
Weight driven Vienna	72	66	8	1	1	30	8	4455
Unsigned 8D T&S wgt. 2								
early rocking ship G/Daughter	72	64	8	1	1	32	8	4608
Unsigned 8D time only wgt. 2								

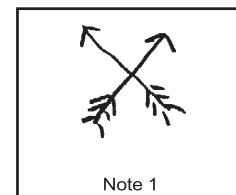
Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	pin.	Whl.	pin.	Whl.	pin.	
Train								
early banjo	64	60	7	1	1	30	7	4702
Unsigned 8D time only wgt. 2								
Serpentine Vienna	74	70	8	1	1	30	8	4856.3
Unsigned 8D time only wgt. 2								
grand piano mvt., early lg split col.	64	64	7	1	1	30	7	5015.5
Unsigned 30 hr. T&S wgt. 2								
ogee	36	80	6	1	1	42	6	6720
Unsigned 8D T&S spg. 2								
#55006-43244 R-A wall reg.	78	55	7	1	1	40	7	7004.1
Unsigned 8D T&S wgt. 2								
wag-on-wall, Delft case	70	60	7	1	1	36	6	7200
Unsigned spg. 3								
school clock, 93/4" Pend.	26	40	8	40	7	34	7	7216.3
Unsigned 30 hr. T&S wgt. 2								
early cuckoo clock		66	6	1	1	39	6	11440
Unsigned 30 hr. time only spg. 2								
moving eye owl clock	88	84	6	1	1	29	6	11909.3
Urgos 32303 9								
Westminster, weight, chain, 41 in pend.								3600
Urgos 030X11, pend. 41 in. 9								
5 tube, weight chain								3600
Urgos 03096, pend. 41 in. 9								
Triple chime, weight chain								3600
Urgos 66018, pend. 41 in. 9								
Triple chime, weight cable								3600
Urgos 03083B, pend. 41 in. 9								
9 tube, weight cable								3600
Urgos 03101, pend. 41 in. 9								
Westminster, weight chain								3600
Urgos 32334, pend. 41 in. 9								
Triple chime, weight chain								3600
Urgos 03082 pend. 41 in. 9								
Triple chime weight cable								3600
Urgos 32340, pend. 41 in. 9								
Triple chime, weight cable								3600
Urgos 32307, pend. 41 in. 9								
Westminster, weight chain								3728
Urgos 32313, pend. 34 in. 9								
Triple chime, weight chain								3857
Urgos 32317, pend. 34 in. 9								
Triple chime, weight cable								3857
Urgos 66020, pend. 34 in. 9								
Triple chime, weight cable								3857
Urgos 32322, pend. 34 in. 9								
Westminster, weight chain								3857
Urgos 8D Triple Chime 1								
Wt./P., UW03064B, H Miller auto beat	28	86	56	80	8	36	8	3870
Urgos 03123, pend. 38 in. 9								
Triple chime, weight cable								3870
Urgos 03124, pend. 38 in. 9								
Triple chime, weight chain								3870
Urgos 03120, pend. 38 in. 9								

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	pin.	Whl.	pin.	Whl.	pin.	
Train								
Westminster, weight chain								3870
Urgos 32316, pend. 31 in. 9								
Triple chime, weight chain								4050
Urgos 66044, pend. 31 in. 9								
Triple chime, weight cable								4050
Urgos 32333, pend. 31 in. 9								
Triple chime, weight cable								4050
Urgos 32341, pend. 31 in. 9								
Westminster, weight chain								4050
Urgos 32328, pend. 31 in. 9								
Westminster, weight chain								4050
Urgos 32320, pend. 27 in. 9								
Westminster, weight chain								4320
Urgos 32326, pend. 27 in. 9								
Triple chime, weight chain								4320
Urgos wgt. 3								
UW 32/1, westmin., 281/2" Pend.	72	56	8	1	1	30	7	4320
Urgos 32325, pend. 27 in. 9								
Westminster, weight chain								4320
Urgos 32319, pend. 27 in. 9								
Westminster, weight chain								4320
Urgos 8D Westminster 1								
W/P #UW 32/1A, #68311	72	56	8	1	1	30	7	4320
Urgos 8D time only 1								
S/P, UW 21/5 Howard Miller	70	56	7	1	1	30	7	4800
Urgos 10								
UW 32/4A								5862
Urgos 8D T & S 1								
Wt./Pnd., UW 7/53 #622481	70	56	7	1	1	38	7	6080
Urgos 8D Time only 1								
S/P, UW 21/26	72	56	7	1	1	38	7	6253.71
Urgos 10								
Model 21/35								6700
Urgos 8D Time only 1								
Spring/Pend., 21/35	72	60	7	1	1	38	7	6700.41
Urgos 8D w/chime spg. 2								
New England Clock Co. Pill&Sc	50	44	10	39	10	33	8	7078.5
Urgos 8D Westminster 1								
Spring/Pend.,UW 6/56 #486887	50	39	10	39	8	33	8	7842.66
Urgos 10								
UW6/56								7842.66
Vienna Regulator 1 wgt. pend 2								
Unsigned	76	68	8	1	1	30	8	4845
Vienna Regulator 2 wgt. pend 2								
Carl Schwetz, Wien	74	70	8	1	1	30	8	4856
Vienna Regulator 2								
2 weight	74	70	8	1	1	30	8	4856.3
Charles Walters 2								
Weight banjo	64	60	7	1	1	30	7	4702
Waltham 8D time only wgt. 2								
lg. reg. mvt., marble front case	76	70	8	1	1	30	8	4987.5
Waterbury 8D 2 wgt. 2								

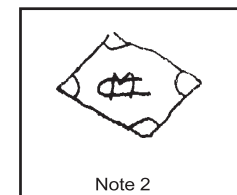
Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.
Train								
G/F w/chime Pat. 5-1910, 2-1915	26	40	8	42	13	35	7	4200
Waterbury 10								
2 wgt., Pat June 23/1917, 27 inch pend.								4200
Waterbury 8D Westmin., 2 weights 1								
Weight/Pend., last Pat. June 23,1917	26	40	8	42	13	35	7	4200
Waterbury 8 D TO wgt. pendl								
Regulator # 57	60	56	8	1	1	38	7	4560
Waterbury 8D time only 1								
Wt./Pend., 2 weights, #22	60	56	8	1	1	40	7	4800
Waterbury 8D TO spg pend 1								
Steel plates, brass bushings # 6	26	40	8	40	8	34	8	5525
Waterbury 8D T&S spg. 2								
'Eaton' wall clock	26	40	8	40	8	34	8	5525
Waterbury 8D TO								
#16 Steel Plates, Brass Bushings	26	40	8	40	8	34	8	5525
Waterbury 8D w/chime 2								
wall clock	26	40	8	40	8	31	7	5757.1
Waterbury 30D time only spg. 2								
gallery	60	56	8	1	1	50	7	6000
Waterbury 8D TO spg pendl 2								
11" dial school clock	68	80	8	1	1	32	7	6217.14
Waterbury 30-hr ogee T&S 2								
wgt. pendl	36	78	6	1	1	42	6	6552
Waterbury 30-hr ogee T&S 2								
wgt. pendl,	36	80	6	1	1	42	6	6720
Waterbury 8D TO spg. 2								
school clock	26	40	8	40	8	42	8	6825
Waterbury 8D time only 1								
Spg./P., short drop school, 10IN stamp	26	40	8	40	8	42	8	6825
Waterbury 8D T&S spg. 2								
school clock	26	40	8	40	8	44	8	7150
Waterbury 8D 10								
Gingerbread clock								7150
Waterbury 8D Time only schoolhouse 1								
Spring/Pend., 9IN stamped on plate	26	40	8	40	8	44	8	7150
Waterbury 8D TO spg. 2								
school clock	26	40	8	40	7	34	7	7216.3
Waterbury 30 hr T & S 1								
Spring/Pend.	14	48	8	40	6	42	6	7840
Waterbury 8D T only spg./pend. 1								
#8 mini schoolhouse short drop	72	87	7	1	1	32	7	8181.55
Waterbury kitchen 8D T & S 1								
Spring/Pend.,.61/2" stamped on right leg	26	40	8	40	7	39	7	8277.55
Waterbury 8D T&S 4								
Spring, steeple, Pat Sep 22, 1874	26	40	8	40	7	39	7	8277.6
Waterbury 8D T&S spg. 2								
no description	26	40	8	40	7	39	7	8277.6
Waterbury 8D Westminster 1								
S/P, last Pat. May 21, 1918	26	45	8	45	7	31	7	8327.3
Waterbury w/chime 2								
model # 501	26	45	8	45	7	31	7	8327.3
Waterbury Clock Co. 8D kitchen 1								

Clock Manufacturer	Cen	3rd	3rd	4th	4th	Esc	Esc	
Clock Description	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.	Whl.
Train								
Spg./P.,stl plts/brass bush., 53/8 stmp.	26	45	7	40	8	36	7	8592.9
Waterbury 8D T & S 1								
S/P # 4IN steel plates, brasss bush	26	40	8	45	7	36	7	8595.9
Waterbury 8D T&S spg. 2								
gingerbread, steel plates	26	40	8	45	7	36	7	8595.9
Waterbury 8D T&S spg. 2								
wood frame crystal reg.	24	50	8	52	7	28	7	8914.3
Waterbury 30hr T&S 1								
S/P	14	48	8	40	6	50	6	9333.3
Waterbury 30 hr. T&S spg. 2								
shelf clock	14	48	8	40	6	50	6	9333.3
Waterbury 8D T&S spg. 2								
gingerbread, Pat. 9-22-74	26	40	8	40	7	44	7	9338.8
Waterbury 8 Day 1								
Spring/Pend.,steel plate/brass bushings	26	45	8	45	7	35	7	9401.79
Waterbury 8D T&S spg. 2								
'Elmwood Duotone' Tambour	26	45	8	45	7	35	7	9401.8
Waterbury 8D T&S spg. 2								
O.E. crystal reg. Pat. 9-13-98	24	50	8	52	7	30	7	9551
Waterbury 8D T&S spg. 2								
O.E. 'Leeds' Lancet	24	50	8	52	7	30	7	9551
Waterbury "Russia" 8D mantle 1								
Spring/Pend.,Pat. 11-1-1881, rock&snail	24	48	8	48	7	35	7	9874.29
Waterbury 30 hr. T&S spg. 2								
early cottage	10	48	6	54	6	42	6	10080
Waterbury 8D 10								
Crystal regulator						34		10571
Waterbury 30 hr. time only spg. 2								
Continental blinking eye	60	48	8	36	8	21	6	11340
Welby 8 Day 1								
Spring/Bal.,westmin.- no other markings	80	84	8	32	7	15	8	
14400								
E.N. Welch 8D time only wgt. 2								
cal.	64	60	8	1	1	33	8	3960
Welch Spring & Co. BB Lewis Cal. 8D TO 1								
W/P., rolling pinions, club tooth esc.	72	60	8	1	1	33	8	4455
E. N. Welch 8D TO 1								
S/P, Vienna Style	26	40	8	40	8	30	8	4875
Welch Spring & Co. 8D time only 1								
S/P, club foot esc whl., dead beat	64	60	8	1	1	42	8	5040
Welch 8D TO spg. 2								
eclipse regulator	26	40	8	40	8	32	8	5200
E.N. Welch 30D, spg. TO								
for Ithaca # 2-1/2 Brisbane	66	56	7	1	1	35	7	5280
E. N. Welch 8D T only 1								
S/P,box regulator w/simple cal.	26	40	8	40	8	34	8	5525
E.N. Welch 8D T&S spg. 2								
Gale Astro Parlor #2	42	84	6	1	1	29	6	5684
E. N. Welch 8D T only spg./pend. 1								
box regulator, 0 stamped above 34	26	40	8	40	8	36	8	5850
E.N. Welch 8D T & S 1								
Spring/Pend,CML-160-2 also 80-512	42	84	6	1	1	37	7	6216

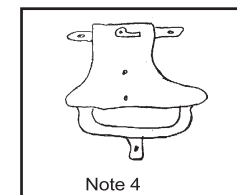
Clock Manufacturer Clock Description	Cen Whl.	3rd Whl.	3rd 4th Whl. pin.	4th Whl.	Esc pin.	Esc Whl. pin.	Esc Whl. pin.
Train							
Welch "Titians" VP 30 D TO 2 spring	66	66	7 1	1	30	6	6222.9
E. N. Welch 8D 2 Schoolhouse	42	84	6 1	1	36	6	7056
E.N. Welch 8D T&S spg. 2 Pat Aug. 30, 1870	26	40	8 40	7	34	7	7216.3
E.N. Welch 8D T&S, spg. made for Ithaca CC	26	40	8 40	7	34	7	7216.33
E.N. Welch 8D T&S spg. 2 school clock PAT. 8-30-70	42	84	6 1	1	37	6	7252
E. N. Welch 8D T & S 1 S/P, mnspg 5/8x.018 x 96, CML-160.2	42	84	6 1	1	40	6	7840
E.N. Welch 30 hr. T&S spg. 2 steeple	11	54	6 44	6	34	6	8228
E. N. Welch 30 hr. 1 Spring/Pend.	48	36	8 36	8	34	8	8262
E. N. Welch 8 Day 1 S/P, Made for Ithaca Cal. Clock	26	40	8 40	7	39	7	8277.55
E. N. Welch 8D T&S 4 S/P, kitchen clock	26	40	8 40	7	40	7	8489.8
E.N. Welch 8D T&S spg. 2 gingerbread	26	40	8 40	7	41	7	8702
E.N. Welch 8D T&S spg. 2 'Nanon' gingerbread	26	40	8 40	7	41	7	8702
Welch "Parepanp" 8D T&S spg 2 spring	26	40	8 40	7	42	7	8914.3
E.N. Welch 30 hr. T&S spg. 2 early steeple, rnd. pltaes	36	36	7 36	7	30	6	9521.6
E.N. Welch 30 hr. time only spg. 2 mini steeple	36	36	8 36	8	40	6	9720
E.N. Welch 8D T&S spg. 2 mini Patti #2 VP	16	30	7 30	7	25	6	10495.6
M. Welton 30hr T&S 2 Ogee	36	78	6 1	1	42	6	6552
Riley Whiting 30 hr. T&S wgt. 2 wood wks. Pillar & Scroll	40	36	8 32	8	42	8	7560
Wilder, Joshua 8D TO wgt. pend 2 Mass. shelf clock	72	72	7 1	1	30	7	5730.6
Simon Willard 8D TO 2 Weight, Mass. shelf clock	84	60	7 1	1	30	7	6171.4
Willard, Simon 8D TO wgt. 2 Mass Shelf Clock	72	72	7 1	1	36	7	7617.3
Windsor spg. 3 pin lever	48	48	6 45	6	15	6	14400
M. Winterhalder 2 Triple Fusee Bracket	76	66	7 1	1	35	6	8360

Notes:

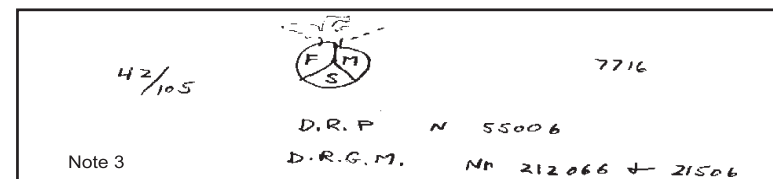
Note 1



Note 2



Note 4



Note 3

note 6: beats on back plate does not match actual, clock runs good at value printed here.

Contributors:

1. Wayne DePotie, DePotie's Clock Shop, NY
2. James Taylor, Woodstock, VT.
3. A friend from Texas
4. Herb Fisher, The Wood Worm, Kimberly, ID
5. Lester Grenz, Arvada, CO
6. The Adams Brown Co. Inc., Cranbury, NJ
7. Newton T. Ronan, Clocks Repaired, 110 Severson Ave., Altamont, NY
8. Randall McGuckin, Goodno's Jewelry Inc., Norman, OK
9. Butterworth Clocks Inc., Muscatine, Iowa
10. Murray R. Falk, About Time Clock Service, 2112 Palisade Road, S W Calgary, Alberta, Canada T2V 3T6
11. George Tresansky

Watch Trains: The following list of standard watch trains was supplied by Philip Poniz, Watchmakers and Casemakers Ltd

7200	14400	18000	20222
9000	15000	18850	20940
10800	15300	18900	21000
11880	15360	19333	21300
12000	15600	19440	21450
12600	16200	19444	21600
13320	16320	19600	25200
13500	16800	19800	28800
14000	17280	19825	30000
14160	17750	20160	36000

Notes:

