

S. C. Means

Low Moon

Jan. 1st 1890.

Var

8-15-21-

g/a

5.75

824 131,74.54

Cher
Spe
Adv
Tit
Fa
Bu

Ask a

2 ads
 No 1280 - 1-23-70
 Coal 87¢
 4.30
 1.20
 1.50
 24.27
 .50
 1.20
 6.70
 30
 4
 1.20
 1.20

dress 35¢
 Slack 60¢
 Nut 75¢
 Lump 150¢

Cheap hats - Below town -
 Origin Release -
 Advertising -
 Title Bonds, Mon.
 Taxes
 Buckle Purchase 18
 1.20

Ask about dividends - Don
 Casey

$$\frac{x+7}{x^2-7x} - \frac{x-7}{x^2+7x} = \frac{7}{x^2-73}$$

14th Oct 1864. p2-46
 Right of way in Ashburn
 31 Aug 1867

Tickets	28.00
Car	5.00
Supper	.65
Breakfast	.75
Knavechillan	1.50
Porter	.50
Dein	1.00
Cab	.50
Theater	1.50

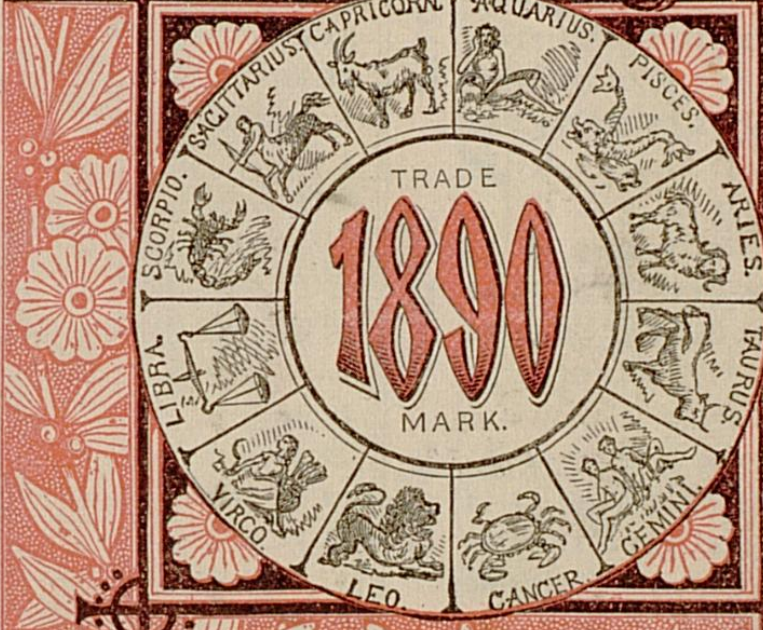
10.70
 2.25

359 per ton slack
745 per ton

46



DIARY



PUBLISHED
FOR
THE TRADE

8-15-21

4 28900 ex dividend

51980

23120

180

4112

230

180

10

420 shares

411 shares at 110 ex dividend

JAN.

FEB.

MAR.

APRIL.

MAY.

JUNE.

CALENDAR.

1890.

	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
JAN.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	..	..
FEB.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	..
MAR.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
APRIL.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	..	..	..
MAY.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
JUNE.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	..	..	..	..	..
JULY.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..
AUG.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
SEPT.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	..	..	..	..
OCT.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	..
NOV.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30
DEC.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31

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WEIGHTS AND MEASURES.

MEASURE OF LENGTH.

<p>4 In. make 1 Hand. 7.92 In. " 1 Link. 18 In. " 1 Cubit. 12 In. " 1 Foot. 6 Ft. " 1 Fathom.</p>	<p>3 Feet make 1 Yard. 5½ Yds. " 1 Rod or Pole 40 Poles " 1 Furlong. 8 Fur. " 1 Mile. 69 1-6 Miles make 1 Degree.</p>
<p>60 Geographical Miles make 1 Degree. 1760 Yards } = 1 Mile. 5280 Feet }</p>	

MEASURE OF SURFACE.

<p>144 Square Inches make 1 Square Foot. 9 Square Feet " 1 Square Yard. 30¼ Square Yards " 1 Rod, Perch or Pole. 40 Square Rods " 1 Square Rood. 4 Square Roods " 1 Square Acre. 10 Square Chains " 1 Square Acre. 640 Square Acres " 1 Square Mile.</p>	<p>Gunter's Chain equal to 22 Yards or 100 Links. 272¼ Square Feet make 1 Square Rod. 43,560 Square Feet " 1 Acre.</p>
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MEASURE OF SOLIDITY.

1728 Cubic Inches make 1 Cubic Foot.	
27 Cubic Feet " 1 Cubic Yard.	

AVOIRDUPOIS WEIGHT.

27¼ Grains make 1 Drachm (dr.) or 27¼ Grains.	
16 Drachms " 1 Ounce (oz.) or 437½ "	
16 Ounces " 1 Pound (lb.) or 7000 "	
28 Pounds " 1 Quarter (qr.)	
4 Quarters " 1 Hundred-Weight (cwt.)	
20 Cwts. " 1 Ton.	
2240 Pounds " 1 Ton.	

TROY WEIGHT.

24 Grains make 1 Pennyweight, or 24 Grains.	
20 Pennywts. " 1 Ounce, or 480 "	
12 Ounces " 1 Pound, or 5760 "	

APOTHECARIES' WEIGHT.

20 Grains make 1 Scruple. | 8 Drachms make 1 Ounce.	
3 Scruples " 1 Drachm. | 12 Ounces " 1 Pound.	

DIAMOND WEIGHT.

16 Parts make 1 Grain (4-5ths Grain Troy.)	
4 Grains " 1 Carat (3 1-5th Grains Troy.)	

LIQUID MEASURE.

4 Gills make 1 Pint. | 31½ Gallons make 1 Barrel.	
2 Pints " 1 Quart. | 54 Gallons " 1 Hhd.	
4 Quarts " 1 Gallon. | 252 Gallons " 1 Tun.	

DRY MEASURE.

8 Quarts make 1 Peck. | 8 Bushels make 1 Quarter.	
4 Pecks " 1 Bushel. 36 Bushels " 1 Chaldron.	
1 Bushel equal to 2150.42 cubic inches.	

WEI

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Maine

N. H

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New

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Virgi

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North

South

Georg

Louis

Arkan

Tenn

Kent

Ohio

Michi

India

Illino

Wisc

Minn

Iowa

Miss

Kans

Nebr

Calif

Oreg

WEIGHT PER BUSHEL OF GRAIN, ETC.

The following Table shows the number of pounds per bushel required, by law or custom, in the sale of articles specified, in the several States of the Union.

or Pole
 ong.
 egree.
 le.
 ks.
 ains.
 " "
 as.
 Ounce.
 Pound.
)
 Barrel.
 Hhd.
 Tun.
 quarter.
 aldron.

STATES.	Barley.	Buckwheat.	Coal.	Corn, shel'd	Corn Meal.	Onions.	Oats.	Potatoes.	Rye.	Wheat.	Salt.	Turnips.	Beans, wh.	Clover S'd.	Timothy.
Maine	48 48	..	56 50	52 30	60 ..	60 ..	60 ..	60 ..	60 ..	60 ..	50	64 ..	..	..	..
N. Hampshire.	.. ..	..	56 50	..	30 60	56 60	..	..	..	..	..	60 ..	..	..	..
Vermont.....	48 48	..	..	..	32 60	56 60	70 ..	..	64 60	42	..	..	..	..	..
Massachusetts.	48 48	..	56 50	52 32	60 56	60 ..	..	..	..	..	..	..	..	..	..
Connecticut...	.. 45	..	56 ..	..	32 60	56 56	..	..	..	..	..	..	..	..	..
New York....	48 48	..	58 ..	..	32 60	56 60	..	..	62 60	44	..	..	..	..	..
New Jersey...	48 50	..	56 ..	..	30 60	56 60	..	..	..	..	..	64 ..	..	..	..
Pennsylvania..	47 48	..	56 ..	..	30 56	56 60	85 ..	..	62 ..	..	..	..	..	..	..
Delaware.....	.. ..	..	56 ..	..	..	..	..	60 ..	..	..	..	..	..	..	..
Maryland.....	48 48	..	56 ..	57 32	60 56	60 56	..	62 64	45	..	..	..	..	..	..
Dist. Columbia	47 48	..	56 48	57 32	56 56	60 50	55	62 60	45	..	..	..	..	..	..
Virginia	48 48	..	56 50	..	32 60	56 60	..	56 60	64 45	..	..	..	..	..	..
West Virginia.	48 52	80	56 48	..	32 60	56 60	..	60 60	60 45	..	..	..	..	..	..
North Carolina	48 50	..	54 46	..	30 ..	56 60	..	..	64 ..	..	..	..	..	..	..
South Carolina	48 56	80	56 50	57 33	60 56	60 50	..	60 60	..	..	..	..	..	..	..
Georgia.....	40 ..	80	56 48	57 35	56 ..	60 56	..	60 45	..	..	..	..	..	..	..
Louisiana.....	32 ..	..	56 ..	..	32 ..	..	60 ..	..	..	..	..	..	..	..	..
Arkansas	48 52	80	56 50	57 32	60 56	60 50	..	60 60	45	..	..	..	..	..	..
Tennessee	48 50	..	56 50	56 32	60 56	60 ..	..	60 ..	45	..	..	..	..	..	..
Kentucky.....	48 52	76	56 50	57 33	56 56	60 50	..	60 60	45	..	..	..	..	..	..
Ohio	48 50	..	56 ..	..	32 60	56 60	..	..	60 60	45	..	..	..	..	..
Michigan	48 48	80	56 ..	54 32	60 56	60 56	58	60 60	45	..	..	..	..	..	..
Indiana.....	48 50	70	56 50	48 32	60 56	60 50	..	60 60	..	..	..	..	..	..	..
Illinois	48 52	..	56 48	57 32	60 56	60 50	..	60 60	..	..	..	..	..	..	..
Wisconsin	48 50	..	56 ..	..	32 60	56 60	..	..	60 ..	..	..	..	..	..	..
Minnesota	48 42	..	56 ..	..	32 60	56 60	..	..	60 ..	..	..	..	..	..	..
Iowa	48 52	..	56 ..	57 33	60 56	60 50	..	60 60	45	..	..	..	..	..	..
Missouri.....	48 52	..	56 ..	57 32	60 56	60 50	..	60 60	45	..	..	..	..	..	..
Kansas	50 50	..	56 50	57 32	60 56	60 55	60 ..	45	..	..	..	..	..	..	..
Nebraska.....	48 52	..	56 50	57 34	60 56	60 55	60 60	45	..	..	..	..	..	..	..
California....	50 40	..	52 ..	..	32 ..	54 60	..	..	..	..	..	..	..	..	..
Oregon.....	46 42	..	56 ..	..	36 60	56 60	..	..	60 ..	..	..	..	..	..	..

INTEREST TABLE.

FOUR PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	11
3 "	0	0	0	0	0	0	0	0	0	1½	3½	33
5 "	0	0	0	0	0	0	0	½	½	½	5½	56
10 "	0	0	0	½	½	½	1	1	1	1	11	111
1 Mo.	0	½	1	1½	1½	2	2½	2½	3	3½	33	333
2 "	½	1½	2	2½	3½	4	4½	5½	6	6½	67	667
3 "	1	2	3	4	5	6	7	8	9	10	100	1000
4 "	1½	2½	4	5½	6½	8	9½	10½	12	13½	133	1333
5 "	1½	3½	5	6½	8½	10	11½	13½	15	16½	167	1667
6 "	2	4	6	8	10	12	14	16	18	20	200	2000
7 "	2½	4½	7	9½	11½	14	16½	18½	21	23½	233	2333
8 "	2½	5½	8	10½	13½	16	18½	21½	24	26½	267	2667
9 "	3	6	9	12	15	18	21	24	27	30	300	3000
10 "	3½	6½	10	13½	16½	20	23½	26½	30	33½	333	3333
11 "	3½	7½	11	14½	18½	22	25½	29½	33	36½	367	3667
1 Yr.	4	8	12	16	20	24	28	32	36	40	400	4000

FIVE PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	14
3 "	0	0	0	0	0	0	0	0	0	0	4	42
5 "	0	0	0	0	0	0	0	1	1	1	7	69
10 "	0	0	0	½	1	1	1	1	1	1½	14	139
1 Mo.	½	1	1	2	2	3	3	4	4	4	42	417
2 "	1	1½	3	3	4	5	6	7	8	8	83	833
3 "	1	2½	4	5	6	8	9	10	11	13	125	1250
4 "	1½	3	5	7	8	10	12	13	15	17	167	1667
5 "	2	4	6	8	10	13	15	17	19	21	208	2083
6 "	2½	5	8	10	13	15	18	20	23	25	250	2500
7 "	3	6	9	12	15	18	20	23	26	29	292	2917
8 "	3	7	10	13	17	20	23	27	30	33	333	3333
9 "	3½	7½	11	15	19	23	26	30	34	38	375	3750
10 "	4	8	13	17	21	25	29	33	38	42	417	4167
11 "	4½	9	14	18	23	28	32	37	41	46	458	4583
1 Yr.	5	10	15	20	25	30	35	40	45	50	500	5000

SIX PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	2	17
3 "	0	0	0	0	0	0	0	0	0	1	5	50
5 "	0	0	0	0	0	½	1	1	1	1	8	83
10 "	0	0	1	1	1	1	1	1	2	2	17	167
1 Mo.	½	1	2	2	3	3	4	4	5	5	50	500
2 "	1	2	3	4	5	6	7	8	9	10	100	1000
3 "	1½	3	5	6	8	9	11	12	14	15	150	1500
4 "	2	4	6	8	10	12	14	16	18	20	200	2000
5 "	2½	5	8	10	13	15	18	20	23	25	250	2500
6 "	3	6	9	12	15	18	21	24	27	30	300	3000
7 "	3½	7	11	14	18	21	25	28	32	35	350	3500
8 "	4	8	12	16	20	24	28	32	36	40	400	4000
9 "	4½	9	14	18	23	27	32	36	41	45	450	4500
10 "	5	10	15	20	25	30	35	40	45	50	500	5000
11 "	5½	11	17	22	28	33	39	44	50	55	550	5500
1 Yr.	6	12	18	24	30	36	42	48	54	60	600	6000

Purch

Paid.

\$50
55
60
65
70
75
80
85
90
91
92
93
94
95
96
97
98
99
101
102
103
104
105
107
108
109
110
115
120
130
140
150
160
170
180
190
200

E. RATE OF INCOME ON STOCKS.

Purchased at the following prices, (par value being \$100), and bearing interest at the following rates.

\$1000	Paid.	3%	4%	5%	6%	7%	8%	9%
11								
33								
56								
111								
333								
667								
1000								
1333								
1667	\$50	6 00	8 00	10 00	12 00	14 00	16 00	18 00
2000	55	5 45	7 27	9 09	10 90	12 72	14 55	16 36
2333	60	5 00	6 67	8 33	10 00	11 66	13 33	15 00
2667	65	4 62	6 15	7 69	9 23	10 76	12 30	13 85
3000	70	4 28	5 71	7 14	8 57	10 00	11 42	12 85
3333	75	4 00	5 33	6 66	8 00	9 33	10 66	12 00
3667	80	3 75	5 00	6 25	7 50	8 75	10 00	11 25
4000	85	3 53	4 70	5 88	7 05	8 23	9 41	10 58
	90	3 33	4 44	5 55	6 66	7 77	8 88	10 00
	91	3 30	4 40	5 49	6 59	7 69	8 79	9 89
	92	3 26	4 34	5 43	6 52	7 60	8 70	9 78
	93	3 23	4 30	5 38	6 45	7 53	8 60	9 68
	94	3 19	4 26	5 32	6 38	7 45	8 51	9 57
	95	3 15	4 21	5 26	6 31	7 36	8 42	9 47
	96	3 13	4 17	5 21	6 25	7 29	8 33	9 38
	97	3 09	4 12	5 15	6 18	7 22	8 25	9 28
	98	3 06	4 08	5 10	6 12	7 14	8 16	9 18
	99	3 03	4 04	5 05	6 06	7 07	8 08	9 09
	101	2 97	3 96	4 95	5 94	6 93	7 92	8 91
	102	2 94	3 92	4 90	5 88	6 86	7 84	8 82
	103	2 91	3 88	4 85	5 83	6 80	7 77	8 74
	104	2 88	3 85	4 81	5 77	6 73	7 69	8 65
	105	2 86	3 80	4 76	5 71	6 66	7 61	8 57
	105	2 83	3 77	4 72	5 66	6 60	7 55	8 49
	107	2 80	3 74	4 67	5 61	6 54	7 48	8 41
	108	2 78	3 70	4 63	5 56	6 48	7 41	8 33
	109	2 75	3 67	4 59	5 50	6 42	7 34	8 26
	110	2 72	3 63	4 54	5 45	6 36	7 27	8 18
	115	2 60	3 48	4 34	5 21	6 08	6 95	7 83
	120	2 50	3 33	4 16	5 00	5 83	6 66	7 50
	130	2 30	3 07	3 84	4 61	5 38	6 15	6 92
	140	2 14	2 86	3 57	4 28	5 00	5 71	6 43
	150	2 00	2 67	3 33	4 00	4 66	5 33	6 00
	160	1 88	2 50	3 12	3 75	4 38	5 00	5 62
	170	. .	. .	. .	3 53	4 12	4 70	5 29
	180	. .	. .	. .	3 33	3 88	4 44	5 00
	190	. .	. .	. .	3 16	3 68	4 21	4 74
	200	. .	. .	. .	3 00	3 50	4 00	4 50

RATES OF POSTAGE.

POSTAL CARDS, 1 cent each, go without further charge to all parts of the United States and Canada. Cards for foreign countries (within the Postal Union) 2 cents each. *Postal Cards are unmailable* with any writing or printing on the address side, except the direction, or with anything pasted upon or attached to them.

ALL LETTERS, to all parts of the United States and Canada, 2 cents for each ounce or fraction thereof.

LOCAL, OR "DROP" LETTERS, that is, for the city or town where deposited, 2 cents where the carrier system is adopted, and 1 cent where there is no carrier system.

FIRST CLASS.—Letters and all other written matter, *whether sealed or unsealed*, and all other matter *sealed, nailed, sewed, tied, or fastened in any manner* so that it cannot be easily examined, 2 cents for each ounce or fraction thereof.

SECOND CLASS.—Only for publishers and news-agents; 1 cent per pound.

NEWSPAPERS and Periodicals (regular publications) can be mailed by the public at the rate of 1 cent for each 4 ounces or fraction thereof.

THIRD CLASS.—Printed matter, in *unsealed wrappers only* (all matter inclosed in notched envelopes must pay letter rates), 1 cent for each 2 ounces or fraction thereof, *which must be fully prepaid*. This includes books, circulars, chromos, engravings, handbills, lithographs, music, pamphlets, proof-sheets and manuscript accompanying the same, reproductions by the electric pen, hektograph, metallograph, papyrograph, and, in short, any reproduction upon paper by any process *except handwriting and the copying press*. Limit of weight 4 lbs., except for a single book, which may weigh more.

FOURTH CLASS.—All mailable matter not included in the three preceding classes which is so prepared for mailing as to be *easily withdrawn from the wrapper* and examined, 1 cent per ounce or fraction thereof. Limit of weight, 4 lbs. Full prepayment compulsory.

REFORWARDING.—Letters will be forwarded from one post office to another upon the *written* request of the *person addressed*, without additional postage charge; but unclaimed packages *cannot be returned to the sender* until stamps are furnished to pay the return postage.

PERMISSIBLE WRITING.—No writing is permitted on third or fourth class matter except as follows: The name and address of sender on the outside or inside of package, preceded by the word "from." On the wrapper may also be written the names and number of articles inclosed. The sender is further allowed to mark a word or passage in a book or paper to which he desires to call special attention. He may also write a simple inscription

E.

RATES OF POSTAGE.

or dedication upon the cover or blank leaves of a book or pamphlet. There may be attached to articles of merchandise, by tag or label, a mark, number, name, or letter for purpose of identification. Printed circulars may contain the written name of the sender, or of the addressee, and the date. Any other writing on third or fourth class matter will subject the package to letter rates of postage, and render the sender liable to a fine of ten dollars for each offense. Printed matter may be inclosed with fourth class matter, but the whole package is subject to the rate of 1 cent per ounce or fraction thereof.

POSTAL NOTES.

Upon payment of a fee of 3 cents each, Postal Notes for any amount under Five Dollars may be purchased at any Money-order Office, payable to bearer at any time within three calendar months from the last day of the month during which it was issued; but payable *only* at such Money-order Office as the purchaser may select or at the office of issue.

MONEY ORDERS.

For Orders not exceeding \$5	. . . . .	5	cents.
Exceeding \$5 and not exceeding \$10	. . . . .	8	"
" 10	" " " "	15	"
" 15	" " " "	30	"
" 30	" " " "	40	"
" 40	" " " "	50	"
" 50	" " " "	60	"
" 60	" " " "	70	"
" 70	" " " "	80	"
" 80	" " " "	100	"

When a larger sum than \$100 is required, additional Orders to make it up must be obtained.

FOREIGN POSTAGE.

The rates for letters are for the half ounce or fraction thereof, and those for newspapers for 2 ounces or fraction thereof:—

To Great Britain and Ireland. France, Spain, all parts of Germany, including Austria, Denmark, Switzerland, Italy, Russia, Norway, Sweden, Turkey (European and Asiatic), Egypt, letters 5 cents, newspapers 2 cent for each 2 ounces or fraction thereof.

To Australia, letters, via San Francisco (except to New South Wales), 5 cents; via Brindisi, 15 cents; newspapers, via San Francisco, 2 cents; via Brindisi, 4 cents. China, letters, via San Francisco, 5 cents; via Brindisi, 13 cents; 4 cents for each paper not weighing over 4 ounces. British India, Italian mail, letters 5 cents, newspapers 1 cent for 2 ounces. Japan, letters, via San Francisco, 5 cents; newspapers 1 cent for 2 ounces.

STANDARD TIME.

IN this Almanac the risings and settings of the Sun and Moon are given in local mean time, as heretofore. The Tides are given in STANDARD TIME.

To change to STANDARD TIME add or subtract the *minutes* as given below, according as they are marked *plus* or *minus*.

Standard Time Divisions as adopted by the Railroads.

EASTERN STANDARD—75th Meridian. Canada, between Quebec and Detroit,—U. S. east of Buffalo, N. Y.; Pittsburg, Pa.; Wheeling and Huntington, W. Va.; Bristol, Tenn.; Charlotte, N. C., and Augusta, Ga.

CENTRAL STANDARD—90th Meridian. West from "Eastern" limits, as above, to Broadview, Canada; to the Missouri River in Dakota; North Platte and McCook, Nebraska; Wallace and Dodge City, Kansas; Toyah and Sanderson, Texas.

MOUNTAIN STANDARD—105th Meridian. West from "Central" limits to Heron, Montana; Ogden, Utah; Needles and Yuma, Arizona.

PACIFIC STANDARD—120th Meridian. West from "Mountain" limits to coast.

Correction for the following Cities.

Eastern Standard, 75° Longitude.	Central Standard, 90° Longitude.
Minutes.	Minutes.
Bangor, Me. - 25	Cleveland, Ohio - 33
Augusta, Me. - 21	Columbus, Ohio - 28
Portland, Me. - 19	Detroit, Mich. - 23
Boston, Mass. - 16	Toledo, Ohio. - 26
Newport, R. I. - 15	Dayton, Ohio - 23
Providence, R. I. - 14	Cincinnati, Ohio. - 22
Concord, N. H. - 14	Louisville, Ky. - 18
New London, Conn. - 11	Indianapolis, Ind. - 16
Springfield, Mass. ... - 10	Chicago, Ill. - 10
Montpelier, Vt. - 10	Milwaukee, Wis. - 8
Hartford, Conn. - 9	Springfield, Ill. - 2
Montreal, Que. - 6	Memphis, Tenn. 0
Albany, N. Y. - 5	New Orleans, La. ... 0
New York, N. Y. ... - 4	St. Louis, Mo. + 1
Utica, N. Y. + 1	Rock Island, Ill. + 3
Philadelphia, Pa. + 1	Dubuque, Iowa + 3
Syracuse, N. Y. + 5	Burlington, Iowa ... + 5
Baltimore, Md. + 6	St. Paul, Minn. + 12
Washington, D. C. ... + 8	Des Moines, Iowa... + 14
Rochester, N. Y. + 11	Kansas City, Mo. + 18
Buffalo, N. Y. + 16	Galveston, Texas + 19
Pittsburg, Pa. + 20	Omaha, Neb. + 24
—	
Mountain Standard, 105° Longitude.	Pacific Standard, 120° Longitude.
Denver, Col. 0	Sacramento, Cal. + 6
Salt Lake City, Utah, + 28	San Francisco, Cal. ... + 10

PRESIDENTS OF THE UNITED STATES.

Political Party.

Residence.

Native of

...

PRESIDENTS OF THE UNITED STATES.

No.	NAMES.	Born.	Inaugurated.	Term of Office.	Died.	Native of	Residence when elected.	Political Party.
1	GEORGE WASHINGTON	Feb. 22, 1732	April 30, 1789	8 years.....	Dec. 14, 1799	Virginia.	Virginia.	Federal.
2	JOHN ADAMS.....	Oct. 31, 1735	Mar. 4, 1797	4 ".....	July 4, 1826	Mass.	Mass.	"
3	THOMAS JEFFERSON...	April 2, 1743	" 4, 1801	8 ".....	" 4, 1826	Virginia.	Virginia.	Republican.
4	JAMES MADISON.....	Mar. 16, 1751	" 4, 1809	8 ".....	June 28, 1836	"	"	"
5	JAMES MONROE.....	April 28, 1758	" 4, 1817	8 ".....	July 4, 1831	"	"	"
6	JOHN QUINCY ADAMS.	July 11, 1767	" 4, 1825	4 ".....	Feb. 23, 1848	Mass.	Mass.	Coalition.
7	ANDREW JACKSON ...	Mar. 15, 1767	" 4, 1829	8 ".....	June 8, 1845	S. Carolina.	Tennessee.	Democrat.
8	MARTIN VAN BUREN.	Dec. 5, 1782	" 4, 1837	4 ".....	July 24, 1862	New York.	New York.	"
9	WM. H. HARRISON...	Feb. 9, 1773	" 4, 1841	1 month.....	April 4, 1841	Virginia.	Ohio.	Whig.
10	JOHN TYLER.....	Mar. 29, 1790	April 6, 1841	3 yrs. 11 mos.	Jan. 18, 1862	"	Virginia.	"
11	JAMES K. POLK.....	Nov. 2, 1795	Mar. 4, 1845	4 years.....	June 15, 1849	N. Carolina.	Tennessee.	Democrat.
12	ZACHARY TAYLOR....	Sept. 24, 1784	" 4, 1849	1 year 4 mos.	July 9, 1850	Virginia.	Louisiana.	Whig.
13	MILLARD FILLMORE..	Feb. 7, 1800	July 9, 1850	2 years 8 mos.	Mar. 7, 1874	New York.	New York.	"
14	FRANKLIN PIERCE....	Nov. 23, 1804	Mar. 4, 1853	4 years.....	Oct. 8, 1869	N. Hamp.	N. Hamp.	Democrat.
15	JAMES BUCHANAN...	April 23, 1791	" 4, 1857	4 ".....	June 1, 1868	Penn.	Penn.	"
16	ABRAHAM LINCOLN...	Feb. 12, 1809	" 4, 1861	4 yrs. 40 days.	April 15, 1865	Kentucky.	Illinois.	Republican.
17	ANDREW JOHNSON...	Dec. 29, 1808	April 15, 1865	3 yrs. 10½ mos.	July 31, 1875	N. Carolina.	Tennessee.	"
18	ULYSSES S. GRANT ...	April 27, 1822	Mar. 4, 1869	8 years.....	July 23, 1885	Ohio.	Illinois.	"
19	RUTHERF'D B. HAYES	Oct. 4, 1822	" 5, 1877	4 ".....	.....	"	Ohio.	"
20	JAMES A. GARFIELD..	Nov. 19, 1831	" 4, 1881	6½ months....	Sept. 19, 1881	"	"	"
21	CHESTER A. ARTHUR.	Oct. 5, 1830	Sept. 20, 1881	3 yrs. 5½ mos.	Nov. 18, 1886	Vermont.	New York.	"
22	GROVER CLEVELAND..	Mar. 18, 1837	Mar. 4, 1885	4 years.....	.....	New Jersey.	" " "	Democrat.
23	BENJAMIN HARRISON.	Aug. 20, 1833	" 4, 1889	.....	.....	Ohio.	Indiana.	Republican.

HELP! In case of Accidents.

Drowning. 1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Imitate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils and pressing the "Adam's apple" back, (so as to close entrance to stomach), direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. **DON'T GIVE UP!** People have been saved after HOURS of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give WARM drinks, or spirits in teaspoonfuls, fresh air and quiet.

Burns and Scalds. Cover with Cooking Soda and lay wet cloths over it. Whites of Eggs and Olive Oil. Olive or Linseed Oil, plain, or mixed with Chalk or Whiting.

Lightning. Dash cold water over a person struck.

Sunstroke. Loosen clothing. Get patient into shade and apply ice-cold water to head.

Mad Dog or Snake Bite. Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife.

Venomous Insects Stings, &c. Apply weak Ammonia, Oil, Salt Water, or Iodine.

Fainting. Place flat on back; allow fresh air and sprinkle with water.

Tests of Death. Hold mirror to mouth. If living, moisture will gather. Push pin into flesh. If dead the hole will remain, if alive it will close up.

Cinders in the Eye. Roll soft paper up like a lamp lighter and wet the tip to remove, or use a medicine dropper to draw it out. Rub the *other* eye.

Fire in one's Clothing. *Don't run*,—especially not down stairs or out of doors. Roll on carpet, or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

Fire in a Building. Crawl on the floor. The clearest air is the lowest in the room. Cover head with a woolen wrap, wet if possible. Cut holes for the eyes. Don't get excited

Fire in Kerosene. *Don't use water*, it will spread the flames. Dirt, sand or flour is the best extinguisher; or smother with woolen rug, table-cloth or carpet.

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ANTIDOTES FOR POISONS.

First. Send for a Physician.

Second. INDUCE VOMITING, by tickling throat with feather or finger. Drinking hot water or strong Mustard and water. Swallow Sweet Oil or whites of Eggs.

Acids are antidotes for ALKALIES, and *vice versa*.

SPECIAL POISONS AND ANTIDOTES.

Acids. MURIATIC, OXALIC. } Soap-suds, Magnesia,
 ACETIC. SULPHURIC (Oil of Vit- } Lime-water.
 riol). NITRIC (Aqua Fortis).

Prussic Acid. } Ammonia in water. Dash water
 in face.

Carbolic Acid. Flour and water, mucilaginous drinks.

Alkalies. POTASH. LYE. } Vinegar or Lemon juice in
 HARTSHORN. AMMONIA. } water.

Arsenic. } Milk, Raw Eggs, Sweet Oil, Lime-
 Rat Poison. } water, Flour and water.
 Paris Green. }

Bug Poison.

Lead.

Saltpetre.

Corrosive Sublimate.

Sugar of Lead.

Blue Vitriol.

} Whites of Eggs or Milk in
 large doses.

Chloroform. } Dash cold water on head and chest.
 Chloral. } Artificial respiration. Piece of ice in
 Ether. } rectum.

Carbonate of Soda. } Soap-suds and mucilaginous
 Copperas. } drinks.
 Cobalt. }

Iodine. } Starch and water. Astringent infu-
 Antimony. } sions. Strong tea.
 Tartar Emetic. }

Mercury AND ITS SALTS. } Whites of Eggs. Milk.
 Mucilages.

Nitrate of Silver. } Salt and water.
 Lunar Caustic. }

Opium.

Morphine.

Laudanum.

Paregoric.

Soothing Powders
 or Syrups.

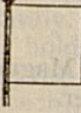



} Strong coffee, hot bath. Keep
 awake and moving at any
 cost.

Strychnine. } Mustard and water, Sul-
 Tinct. of Nux Vomica. } phate of Zinc. Absolute
 quiet. Plug the ears.

NEW WEATHER SIGNALS.




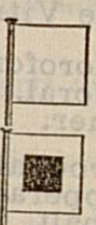
[Adopted for general use by the United States Signal Service on and after March 1, 1887.]

INTERPRETATION OF SIGNALS.

No. 1. White Flag.	No. 2. Blue Flag.	No. 3. Black Triangular Flag.	No. 4. White Flag, Black Center.
			
Clear or Fair.	Rain or Snow.	Temperature.	Cold Wave.

No. 1, white flag, clear or fair weather, no rain. Number 2, blue flag, rain or snow. Number 3, black triangular flag, refers to temperature, and above numbers 1 or 2, indicates warmer weather; below numbers 1 or 2, colder weather, and when not displayed, stationary weather. Number 4, white flag with black center (cold-wave flag) sudden fall in temperature; this signal is usually ordered at least twenty-four hours in advance of the cold wave. It is not displayed unless a temperature of forty-five degrees, or less, is expected, nor is flag number 3 ever displayed with it.

DISPLAY EXAMPLES.

			
Fair Weather, Colder.	Warmer, Rain or Snow.	Warmer, Fair Weather, fol- lowed by Rain or Snow.	Fair Weather, Cold Wave.

TO FIND LENGTH OF DAY OR NIGHT.

At any time of the year add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising for the length of the day. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning for the length of the night. These rules are equally true for apparent time.

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Arizona

Arkansas

California

Colorado

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Florida.

Georgia

Idaho...

Illinois.

Indiana

Iowa...

Kansas

Kentuel

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INTEREST LAWS OF ALL THE STATES.

STATES AND TERRITORIES.	PENALTY OF USURY.	Legal.	Special.
Alabama	Loss of interest	8	.....
Arizona	No Penalty.....	10	No limit.
Arkansas	Forfeiture of principal & interest.	6	10 per ct.
California	No penalty	7	No limit.
Colorado	No penalty	10	No limit.
Connecticut....	No penalty	6	6 per ct.
Dakota	Forfeiture of contract	7	12 per ct.
Delaware.....	Forfeiture of contract	6	6 per ct.
District of Col..	Forfeiture of all interest.....	6	10 per ct.
Florida	No penalty	8	No limit.
Georgia	Forfeiture of excess	7	8 per ct.
Idaho.....	Forf'ture of 3 times excess of int.	10	18 per ct.
Illinois	Forfeiture of all interest.....	6	8 per ct.
Indiana	Forfeiture of int. over 6 per cent.	6	8 per ct.
Iowa.....	Forfeiture of interest and costs..	6	10 per ct.
Kansas	Forfeiture of excess over 12 per ct.	7	12 per ct.
Kentucky	Forfeiture of excess	6	6 per ct.
Louisiana	Forfeiture of interest	5	8 per ct.
Maine	No penalty	6	No limit.
Maryland	Forfeiture of excess	6	6 per ct.
Massachusetts .	No penalty—6 per ct. on judg'ts.	6	No limit.
Michigan	Forfeiture of excess	7	10 per ct.
Minnesota.....	Forfeiture of contract.	7	10 per ct.
Mississippi	Forfeiture of all interest.....	6	10 per ct.
Missouri	Forfeiture of all interest	6	10 per ct.
Montana	No penalty	10	No limit.
Nebraska.....	Forfeiture of all interest & costs.	7	10 per ct.
Nevada.....	No penalty	10	No limit.
New Hampshire	Forfeiture of 3 times excess of int.	6	6 per ct.
New Jersey	Forfeiture of all interest.....	6	6 per ct.
New Mexico ...	No penalty	6	12 per ct.
New York.....	Forfeiture of contract *	6	6 per ct.
North Carolina.	Forfeiture of double am't of int.	6	8 per ct.
Ohio.....	Forfeiture of excess.	6	8 per et.
Oregon	Forfeiture of prin., int. & costs..	8	10 per ct.
Pennsylvania ..	Forfeiture of excess, Act of 1858.	6	6 per ct.
Rhode Island ..	Forfeiture, unless by contract.†.	6	No limit.
South Carolina.	Forfeiture of interest	7	10 per ct.
Tennessee.....	Forfeiture of over 6 per cent....	6	6 per ct.
Texas	Forfeiture of interest.....	8	12 per ct.
Utah	No penalty	10	No limit.
Vermont	Forfeiture of excess ..	6	7 per ct.
Virginia.....	Forfeiture of excess	6	6 per ct.
Washington....	No penalty	10	No limit.
West Virginia..	Forfeiture of excess	6	6 per ct.
Wisconsin.....	Forfeiture of all interest	7	10 per ct.
Wyoming	No penalty	12	No limit.

* Also punishable as a misdemeanor. Banks forfeit interest only, or double the interest if charged in advance.
 † Also 6 per cent. on judgments.

VALUES IN UNITED STATES MONEY
OF THE
PURE GOLD OR SILVER

REPRESENTING RESPECTIVELY THE MONETARY UNITS
AND STANDARD COINS OF FOREIGN COUNTRIES.

The first section of the Act of March 3, 1873, provides "that the value of Foreign Coin, as expressed in the money of account of the United States, shall be that of the pure metal of such coin of standard value," and that "the values of the standard coins in circulation of the various nations of the world shall be estimated annually by the Director of the Mint, and be proclaimed on the first day of January by the Secretary of the Treasury."

The estimates of values contained in the following table are those made by the Director of the Mint, January 1st, 1889, in compliance with the above stated provisions of law.

COUNTRY.	MONETARY UNIT.	STANDARD.	VALUE.
Argentine Repub.	Peso	Gold & silv.	D. C. M. 0 96 5
Austria	Florin	Silver	0 33 6
Belgium	Franc	Gold & silv.	0 19 3
Bolivia	Boliviano	Silver	0 68 0
Brazil	Milreis of 1000 reis.	Gold	0 54 6
British America .	Dollar	Gold	1 0 0
Chili	Peso	Gold & silv.	0 91 2
Cuba	Peso	Gold & silv.	0 92 6
Denmark	Crown	Gold	0 26 8
Ecuador	Sucre	Silver	0 68 0
Egypt	Pound (100 piastres)	Gold	4 94 3
France	Franc	Gold & silv.	0 19 3
German Empire .	Mark	Gold	0 23 8
Great Britain . . .	Pound sterling	Gold	4 86 6½
Greece	Drachma	Gold & silv.	0 19 3
Guatemala	Peso	Silver	0 68 0
Hayti	Gourde	Gold & silv.	0 96 5
Honduras	Peso	Silver	0 68 0
India	Rupee of 16 annas.	Silver	0 32 3
Italy	Lira	Gold & silv.	0 19 3
Japan	Yen	Gold	0 99 7
Japan	Yen	Silver	0 73 4
Liberia	Dollar	Gold	1 0 0
Mexico	Dollar	Silver	0 73 9
Netherlands	Florin	Gold & silv.	0 40 2
Nicaragua	Peso	Silver	0 68 0
Norway	Crown	Gold	0 26 8
Peru	Sol	Silver	0 68 0
Portugal	Milreis of 1000 reis.	Gold	1 8 0
Russia	Roubl. of 100 cop'ks	Silver	0 54 4
Spain	Peseta of 100centim.	Gold & silv.	0 19 3
Sweden	Crown	Gold	0 26 8
Switzerland	Franc	Gold & silv.	0 19 3
Tripoli	Mahbub of 20 piast's	Silver	0 61 4
Turkey	Piastre	Gold	0 4 4
U. S. of Colombia	Peso	Silver	0 68 0
Venezuela	Bolivar	Silver	0 13 6

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BUSINESS LAW IN DAILY USE.

The following compilation of business law contains the essence of a large amount of legal verbiage:

If a note is lost or stolen, it does not release the maker; he must pay it, if the consideration for which it was given and the amount can be proven.

Notes bear interest only when so stated.

Principals are responsible for the acts of their agents.

Each individual in a partnership is responsible for the whole amount of the debts of the firm, except in cases of special partnership.

Ignorance of the law excuses no one.

The law compels no one to do impossibilities.

An agreement without consideration is void.

A note made on Sunday is void.

Contracts made on Sunday cannot be enforced.

A note by a minor is void.

A contract made with a minor is void.

A contract made with a lunatic is void.

A note obtained by fraud, or from a person in a state of intoxication, cannot be collected.

It is a fraud to conceal a fraud.

Signatures made with a lead pencil are good in law.

A receipt for money is not always conclusive.

The acts of one partner bind all the rest.

"Value received" is usually written in a note, and should be, but is not necessary. If not written it is presumed by the law, or may be supplied by proof.

The maker of an "accommodation" bill or note (one for which he has received no consideration, having lent his name or credit for the accommodation of the holder) is not bound to the person accommodated, but is bound to all other parties, precisely as if there was a good consideration.

No consideration is sufficient in law if it be illegal in its nature.

Checks or drafts must be presented for payment without unreasonable delay.

Checks or drafts should be presented during business hours, but in this country, except in the case of banks, the time extends through the day and evening.

If the drawee of a check or draft has changed his residence, the holder must use due or reasonable diligence to find him.

If one who holds a check as payee or otherwise, transfers it to another, he has a right to insist that the check be presented that day, or, at farthest, on the day following.

A note indorsed in blank (the name of the indorser only written) it is transferable by delivery, the same as if made payable to bearer.

If the time of payment of a note is not inserted, it is held payable on demand.

SHORT METHOD

FOR CALCULATING INTEREST.

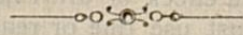
Multiply the principal by as many hundreds as there are days, and

For 4 per cent.....	Divide by 90	
“ 5 “ “	“ “	72
“ 6 “ “	“ “	60
“ 7 “ “	“ “	52
“ 8 “ “	“ “	45
“ 9 “ “	“ “	40
“ 10 “ “	“ “	36
“ 12 “ “	“ “	30

EXAMPLE—INTEREST on \$50 for 30 days at 4%.
 $50 \times .30 = 15.00$, which divided by $90 = 16\frac{2}{3}$ cents—the required result.

FESTIVALS AND FASTS.

Epiphany	Jan.	6
Septuagesima Sunday	Feb.	2
Quinquagesima—Shrove Sunday	Feb.	16
Ash Wednesday	Feb.	19
First Sunday in Lent	Feb.	23
St. Patrick	Mar.	17
Palm Sunday	Mar.	30
Good Friday	April	4
Easter Sunday	April	6
Low Sunday	April	13
Rogation Sunday	May	11
Ascension Day—Holy Thursday	May	15
Pentecost—Whit Sunday	May	25
Trinity Sunday	June	1
Corpus Christi	June	5
St. John Baptist	June	24
Michaelmas Day	Sept.	29
St. Andrew	Nov.	30
First Sunday in Advent	Nov.	30
Christmas Day	Dec.	25



CHRONOLOGICAL CYCLES.

Dominical Letter	E
Epact	9
Lunar Cycle, or Golden Number	10
Solar Cycle	23
Roman Indiction	3
Julian Period	6603

ECLIPSES FOR THE YEAR.

IN the year 1890 there will be three Eclipses; two of the Sun and one of the Moon, and a Lunar Appulse.

A LUNAR APPULSE, June 2-3. The Moon being visible to North and South America, and adjacent Oceans, Occurring as follows: —

	Time of nearest approach.		
Eastern Standard.....	3d.	1h.	45m. M.
Central Standard.....	3d.	0h.	45m. M.
Mountain Standard.....	2d.	11h.	45m. A.

Angle of Position of point of nearest approach from north point of the Moon's limb 167 degrees to west. The nearness of the approach and the uncertainty as to the effect of the earth's atmosphere, render it doubtful whether the Moon will enter the shadow of the earth, (causing a partial eclipse,) or not.

I. AN ANNULAR ECLIPSE OF THE SUN, June 17. Invisible. Visible to Europe, Asia, northern half of Africa, eastern extremity of South America, and the intermediate Atlantic Ocean.

II. A SLIGHT PARTIAL ECLIPSE OF THE MOON, November 26. Invisible east of Dakota. Visible to the western part of North America, Asia, Australia, and the Pacific Ocean. Occurring as follows: —

	Central Standard.			Mountain Standard.		
	D.	H.	M.	D.	H.	M.
Moon enters Penumbra	26	5	16 M.	26	4	16 M.
Moon enters Shadow.....	26	7	25 M.	26	6	25 M.
Middle of Eclipse.....	26	7	34 M.	26	6	34 M.
Moon leaves Shadow.....	26	7	42 M.	26	6	42 M.

Magnitude of Eclipse = 0.005, (Moon's diameter = 1).

III. A CENTRAL ECLIPSE OF THE SUN, December 12. Invisible. Visible to Australia, the Indian Ocean, and around the South Pole.

MORNING AND EVENING STARS.

MERCURY will be Evening Star about January 13, May 6, September 3, and December 27; and Morning Star about February 23, June 24, and October 15.

VENUS will be Morning Star till February 18; then Evening Star till December 3; and Morning Star again the rest of the year.

JUPITER will be Evening Star till January 10; then Morning Star till July 30; and Evening Star again the rest of the year.

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TIDE TABLE

(The following values are derived from late determinations of the UNITED STATES COAST SURVEY.)

To find the time (Standard Time) of High Water at any of the following places, add or subtract the hours and minutes opposite the name of place in the following Table, to or from the hours and minutes of High Water at NEW YORK for the required day, as found in the *Calendar Page*.

EASTERN STANDARD.		H.	M.	Mean range. Feet.
Eastport, Me.	add	2	33	18.2
Bar Harbor, Me.	"	2	27	10.4
Portland, Me.	"	2	55	9.1
Portsmouth, N. H.	"	3	3	8.6
Isle of Shoals, N. H.	"	2	57	8.7
Newburyport, Mass.	"	3	16	7.5
Gloucester, Mass.	"	2	44	8.9
Salem, Mass.	"	2	54	9.2
Nahant, Mass.	"	2	50	9.4
Plymouth, Mass.	"	2	59	10.2
Provincetown, Mass.	"	3	0	9.2
Nantucket, Mass.	"	4	15	3.0
Vineyard Haven, Mass.	"	3	32	1.6
Wood's Hole, North Side, Mass.	sub.	0	21	4.0
Wood's Hole, South Side, Mass.	add	0	14	1.6
New Bedford Entrance (Dumpling Rock), Mass. }	sub.	0	20	3.7
Newport, R. I.	"	0	33	3.9
Point Judith, R. I.	"	0	45	3.1
Sandy Hook, N. J.	"	0	32	4.7
Watch Hill, R. I.	add	0	44	2.7
Stonington, Conn.	"	0	52	2.7
New London, Conn.	"	1	14	2.6
New Haven, Conn.	"	2	57	6.0
Bridgeport, Conn.	"	3	1	6.5
Montauk Point, L. I.	"	0	4	1.9
Throg's Neck, N. Y.	"	3	12	7.3
Cape May Landing, N. J.	"	0	16	4.8
Newcastle, Del.	"	3	52	6.5
Philadelphia, Penn.	"	5	36	6.0
Annapolis, Md.	sub.	3	19	0.9
Blatimore, Md.	"	1	24	1.3
Richmond, Va.	"	3	25	3.6
Hatteras Inlet, N. C.	"	0	56	2.0
Beaufort, N. C.	"	0	35	2.8
Charleston (C. H. Wharf), S. C.	"	0	19	5.1
CENTRAL STANDARD.				
Fort Pulaski (Savannah Ent.), Ga.	"	1	21	6.9
Savannah (Dry Dock Wharf), Ga.	"	0	26	6.5
St. Augustine, Fla.	"	0	17	4.2
Key West, Fla.	add	0	26	1.2
Tampa Bay (Egmont Key), Fla.	"	2	49	1.4
Cedar Keys (Depot Key), Fla.	"	4	52	2.6



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February

1890



PISCES.

MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
FULL MOON	4d. 8h. 13m. A.	4d. 7h. 13m. A.
LAST QUARTER...	12d. 1h. 51m. A.	12d. 0h. 51m. A.
NEW MOON	19d. 5h. 28m. M.	19d. 4h. 28m. M.
FIRST QUARTER ..	26d. 9h. 6m. M.	26d. 8h. 6m. M.

BOSTON & CHICAGO.						BOSTON.			N. YORK & PHILA.			N. Y.	
D. of M.	Day of W'k.	Local Mean Time.		TIDE.		D. of M.	Local Mean Time.		TIDE.		D. of M.	Day of W'k.	
		SUN R.&S.	MOON R.&S.	Standard Time.	Standard Time.		SUN R.&S.	MOON R.&S.	Standard Time.	Standard Time.			
1	SA.	r7 14	5 I	8 44		1	r7 10	4 55	5 42		1	SA	
2	S	s5 16	5 5I	9 35		2	s5 19	5 45	6 33		2	S	
3	MO.	r7 12	6 36	10 22		3	r7 9	6 3I	7 19		3	MO	
4	TU.	s5 18	rises.	II 6		4	s5 22	rises.	7 59		4	TU	
5	WE.	r7 10	5 55	II 45		5	r7 6	5 59	8 4I		5	WE	
6	TH.	s5 21	6 58	0 4		6	s5 24	7 1	9 22		6	TH	
7	FR.	r7 7	8 I	0 42		7	r7 4	8 3	9 59		7	FR	
8	SA.	s5 23	9 4	I 20		8	s5 26	9 5	10 35		8	SA	
9	S	r7 5	10 8	I 59		9	r7 2	10 7	II 13		9	S	
10	MO.	s5 26	II 13	2 39		10	s5 29	II II	II 56		10	MO	
11	TU.	r7 2	morn	3 22		11	r7 0	morn	0 19		11	TU	
12	WE.	s5 29	0 2I	4 9		12	s5 3I	0 18	I 8		12	WE	
13	TH.	r6 59	I 3I	5 6		13	r6 57	I 27	2 5		13	TH	
14	FR.	s5 3I	2 42	6 13		14	s5 34	2 37	3 10		14	FR	
15	SA.	r6 57	3 52	7 23		15	r6 54	3 46	4 19		15	SA	
16	S	s5 34	4 57	8 33		16	s5 36	4 5I	5 31		16	S	
17	MO.	r6 54	5 55	9 40		17	r6 52	5 50	6 37		17	MO	
18	TU.	s5 36	6 42	10 38		18	s5 39	6 38	7 33		18	TU	
19	WE.	r6 5I	sets.	II 30		19	r6 49	sets.	8 24		19	WE	
20	TH.	s5 39	7 16	.....		20	s5 41	7 18	9 14		20	TH
21	FR.	r6 48	8 29	0 39		21	r6 46	8 29	9 59		21	FR	
22	SA.	s5 41	9 39	I 23		22	s5 43	9 38	10 40		22	SA	
23	S	r6 45	10 47	2 6		23	r6 43	10 45	II 22		23	S	
24	MO.	s5 44	II 53	2 48		24	s5 46	II 50	.....		24	MO
25	TU.	r6 42	morn	3 34		25	r6 40	morn	0 32		25	TU	
26	WE.	s5 46	0 57	4 24		26	s5 48	0 53	I 23		26	WE	
27	TH.	r6 39	I 58	5 20		27	r6 38	I 53	2 18		27	TH	
28	FR.	s5 49	2 56	6 17		28	s5 50	2 50	3 15		28	FR	
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MOON'S PHASES. (In S...)
FULL
LAST
NEW
FIRST

D. of M.	Day of W'k.
1	SA
2	S
3	MO
4	TU
5	WE
6	TH
7	FR
8	SA
9	S
10	MO
11	TU
12	WE
13	TH
14	FR
15	SA
16	S
17	MO
18	TU
19	WE
20	TH
21	FR
22	SA
23	S
24	MO
25	TU
26	WE
27	TH
28	FR
29	SA
30	S
31	MO



March 1890


ARIES.

MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
FULL MOON	6d. 1h. 47m. A.	6d. 0h. 47m. A.
LAST QUARTER	13d. 11h. 5m. A.	13d. 10h. 5m. A.
NEW MOON	20d. 4h. 1m. A.	20d. 3h. 1m. A.
FIRST QUARTER	28d. 4h. 32m. M.	28d. 3h. 32m. M.

BOSTON & CHICAGO.				BOST.	N. YORK & PHILA.				N. Y.
N. Y. TIDE.		Day of W'k.	Local Mean Time.		TIDE.	D. of M.	Local Mean Time.		TIDE.
Stand- ard Time.	D. of M.		SUN R. & S.	MOON R. & S.			Stand- ard Time.	D. of M.		SUN R. & S.	MOON R. & S.
5 42	1	SA.	r6 36	3 48	7 18	1	r6 35	3 42	4 15
6 33	2	W	s5 51	4 34	8 15	2	s5 52	4 28	5 12
7 19	3	MO.	r6 33	5 15	9 7	3	r6 31	5 10	6 5
7 59	4	TU.	s5 54	5 50	9 55	4	s5 55	5 46	6 53
8 41	5	WE.	r6 29	6 20	10 39	5	r6 28	6 17	7 34
9 22	6	TH.	s5 56	rises.	11 17	6	s5 57	rises.	8 11
9 59	7	FR.	r6 26	6 56	11 54	7	r6 25	6 57	8 52
0 35	8	SA.	s5 58	8 0	0 12	8	s5 59	8 0	9 30
1 13	9	W	r6 23	9 5	0 50	9	r6 22	9 4	10 8
1 56	10	MO.	s6 1	10 13	1 30	10	s6 1	10 10	10 45
0 19	11	TU.	r6 19	11 23	2 11	11	r6 19	11 19	11 28
1 8	12	WE.	s6 3	morn	2 56	12	s6 3	morn	.....
2 5	13	TH.	r6 16	0 33	3 47	13	r6 15	0 28	0 47
3 10	14	FR.	s6 5	1 42	4 50	14	s6 6	1 37	1 43
4 19	15	SA.	r6 12	2 47	6 2	15	r6 12	2 41	2 59
5 31	16	W	s6 8	3 45	7 14	16	s6 8	3 39	4 11
6 37	17	MO.	r6 9	4 34	8 24	17	r6 9	4 29	5 20
7 33	18	TU.	s6 10	5 15	9 26	18	s6 10	5 11	6 23
8 24	19	WE.	r6 6	5 50	10 20	19	r6 6	5 47	7 17
9 14	20	TH.	s6 12	sets.	11 7	20	s6 12	sets.	8 1
9 59	21	FR.	r6 2	7 16	11 49	21	r6 2	7 16	8 46
0 40	22	SA.	s6 14	8 25	0 10	22	s6 14	8 23	9 30
1 22	23	W	r5 59	9 34	0 52	23	r5 59	9 31	10 9
...	24	MO.	s6 16	10 41	1 33	24	s6 16	10 37	10 48
0 32	25	TU.	r5 55	11 45	2 16	25	r5 56	11 40	11 33
1 23	26	WE.	s6 19	morn	3 1	26	s6 18	morn	.....
2 18	27	TH.	r5 52	0 46	3 50	27	r5 52	0 41	0 49
3 15	28	FR.	s6 21	1 41	4 44	28	s6 20	1 35	1 43
...	29	SA.	r5 48	2 30	5 44	29	r5 49	2 24	2 42
...	30	W	s6 23	3 13	6 44	30	s6 22	3 8	3 41
...	31	MO.	r5 45	3 50	7 42	31	r5 45	3 45	4 38



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
FULL MOON	5d. 4h. 24m. M.	5d. 3h. 24m. M.
LAST QUARTER	12d. 5h. 53m. M.	12d. 4h. 53m. M.
NEW MOON	19d. 3h. 5m. M.	19d. 2h. 5m. M.
FIRST QUARTER	26d. 11h. 51m. A.	26d. 10h. 51m. A.

BOSTON & CHICAGO.				BOST.	N. YORK & PHILA.			N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	D. of M.	Local Mean Time.		TIDE.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.		Standard Time.
1	TU.	75 43	4 22	8 34	1	75 44	4 18	5 31
2	WE.	56 27	4 50	9 22	2	56 26	4 47	6 20
3	TH.	75 39	5 16	10 6	3	75 41	5 14	7 4
4	FR.	56 29	5 41	10 46	4	56 28	5 40	7 41
5	SA.	75 36	rises.	11 24	5	75 37	rises.	8 18
6	S	56 31	8 2	.....	6	56 30	8 0	9 0
7	MO.	75 33	9 12	0 22	7	75 34	9 9	9 41
8	TU.	56 33	10 25	1 4	8	56 32	10 20	10 23
9	WE.	75 29	11 36	1 50	9	75 31	11 31	11 9
10	TH.	56 36	morn	2 41	10	56 34	morn	.....
11	FR.	75 26	0 42	3 37	11	75 28	0 36	0 37
12	SA.	56 38	1 41	4 43	12	56 36	1 35	1 42
13	S	75 23	2 32	5 55	13	75 25	2 27	2 52
14	MO.	56 40	3 15	7 5	14	56 38	3 11	4 1
15	TU.	75 19	3 50	8 9	15	75 21	3 47	5 7
16	WE.	56 42	4 21	9 6	16	56 40	4 19	6 4
17	TH.	75 16	4 49	9 56	17	75 18	4 48	6 54
18	FR.	56 45	5 15	10 41	18	56 42	5 15	7 36
19	SA.	75 13	sets.	11 22	19	75 15	sets.	8 17
20	S	56 47	8 23	.....	20	56 44	8 20	8 59
21	MO.	75 10	9 29	0 22	21	75 13	9 25	9 41
22	TU.	56 40	10 32	1 4	22	56 46	10 27	10 22
23	WE.	75 7	11 31	1 48	23	75 10	11 25	11 5
24	TH.	56 51	morn	2 33	24	56 48	morn	11 53
25	FR.	75 4	0 24	3 21	25	75 7	0 18	0 19
26	SA.	56 53	1 10	4 13	26	56 50	1 4	1 12
27	S	75 1	1 49	5 9	27	75 4	1 44	2 7
28	MO.	56 56	2 22	6 5	28	56 52	2 18	3 3
29	TU.	74 58	2 51	7 2	29	75 1	2 48	3 59
30	WE.	56 58	3 18	7 53	30	56 54	3 16	4 50
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MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
FULL MOON	5d. 4h. 24m. M.	5d. 3h. 24m. M.
LAST QUARTER	12d. 5h. 53m. M.	12d. 4h. 53m. M.
NEW MOON	19d. 3h. 5m. M.	19d. 2h. 5m. M.
FIRST QUARTER	26d. 11h. 51m. A.	26d. 10h. 51m. A.

BOSTON & CHICAGO.	BOST.	N. YORK & PHILA.	N. Y.	
D. of M.	Day of W'k.	Local Mean Time.	TIDE.	
D. of M.	Day of W'k.	Local Mean Time.		Standard Time.
		SUN R.&S.	MOON R.&S.	
1	TH.	75 44	4 18	5 31
2	FR.	56 26	4 47	6 20
3	SA.	75 41	5 14	7 4
4	S	56 28	5 40	7 41
5	MO.	75 37	rises.	8 18
6	TU.	56 30	8 0	9 0
7	WE.	75 34	9 9	9 41
8	TH.	56 32	10 20	10 23
9	FR.	75 31	11 31	11 9
10	SA.	56 34	morn	.....
11	S	75 28	0 36	0 37
12	MO.	56 36	1 35	1 42
13	TU.	75 25	2 27	2 52
14	WE.	56 38	3 11	4 1
15	TH.	75 21	3 47	5 7
16	FR.	56 40	4 19	6 4
17	SA.	75 18	4 48	6 54
18	S	56 42	5 15	7 36
19	MO.	75 15	sets.	8 17
20	TU.	56 44	8 20	8 59
21	WE.	75 13	9 25	9 41
22	TH.	56 46	10 27	10 22
23	FR.	75 10	11 25	11 5
24	SA.	56 48	morn	11 53
25	S	75 7	0 18	0 19
26	MO.	56 50	1 4	1 12
27	TU.	75 4	1 44	2 7
28	WE.	56 52	2 18	3 3
29	TH.	75 1	2 48	3 59
30	FR.	56 54	3 16	4 50
31	S	...	...	...



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
FULL MOON	4d. 4h. 9m. A.	4d. 3h. 9m. A.
LAST QUARTER	11d. 11h. 21m. M.	11d. 10h. 21m. M.
NEW MOON	18d. 3h. 18m. A.	18d. 2h. 18m. A.
FIRST QUARTER	26d. 5h. 34m. A.	26d. 4h. 34m. A.

D. of M.	Day of W'k.	BOSTON & CHICAGO. Local Mean Time.		BOST. TIDE. Standard Time.	N. YORK & PHILA. Local Mean Time.		N. Y. TIDE. Standard Time.	
		SUN R.&S.	MOON R.&S.		SUN R.&S.	MOON R.&S.		
		1	TH.		r4 55	3 43		8 42	1	r4 59	3 42	5 40
2	FR.	s7 0	4 7	9 28	2	s6 57	4 7	6 26
3	SA.	r4 53	4 32	10 12	3	r4 56	4 33	7 9
4	S	s7 2	rises.	10 55	4	s6 59	rises.	7 49
5	MO.	r4 50	8 10	11 37	5	r4 54	8 6	8 33
6	TU.	s7 5	9 23	0 0	6	s7 1	9 18	9 21
7	WE.	r4 48	10 34	0 47	7	r4 51	10 28	10 9
8	TH.	s7 7	11 38	1 38	8	s7 3	11 32	11 0
9	FR.	r4 45	morn	2 34	9	r4 49	morn	.....
10	SA.	s7 9	0 33	3 32	10	s7 5	0 28	0 31
11	S	r4 43	1 17	4 36	11	r4 47	1 12	1 34
12	MO.	s7 11	1 53	5 42	12	s7 7	1 49	2 40
13	TU.	r4 41	2 25	6 45	13	r4 45	2 22	3 43
14	WE.	s7 13	2 53	7 45	14	s7 9	2 52	4 42
15	TH.	r4 39	3 19	8 39	15	r4 43	3 19	5 35
16	FR.	s7 15	3 43	9 26	16	s7 11	3 44	6 25
17	SA.	r4 37	4 9	10 12	17	r4 41	4 11	7 9
18	S	s7 17	sets.	10 56	18	s7 13	sets.	7 50
19	MO.	r4 35	8 18	11 36	19	r4 39	8 13	8 32
20	TU.	s7 19	9 20	.....	20	s7 14	9 14	9 16
21	WE.	r4 33	10 16	0 39	21	r4 38	10 10	9 59
22	TH.	s7 21	11 5	1 23	22	s7 16	10 59	10 41
23	FR.	r4 31	11 47	2 9	23	r4 36	11 42	11 26
24	SA.	s7 23	morn	2 53	24	s7 18	morn	.....
25	S	r4 30	0 23	3 40	25	r4 35	0 18	0 39
26	MO.	s7 25	0 53	4 30	26	s7 20	0 49	1 29
27	TU.	r4 28	1 20	5 22	27	r4 33	1 17	2 20
28	WE.	s7 27	1 45	6 14	28	s7 21	1 43	3 12
29	TH.	r4 27	2 9	7 6	29	r4 32	2 8	4 3
30	FR.	s7 28	2 33	7 58	30	s7 23	2 34	4 54
31	SA.	r4 26	2 58	8 49	31	r4 31	3 0	5 46



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
FULL MOON	3d. 1h. 34m. M.	3d. 6h. 34m. M.
LAST QUARTER	9d. 4h. 50m. A.	9d. 3h. 50m. A.
NEW MOON	17d. 4h. 58m. M.	17d. 3h. 58m. M.
FIRST QUARTER	25d. 8h. 53m. M.	25d. 7h. 53m. M.

BOSTON & CHICAGO.				BOST.	N. YORK & PHILA.			N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE. Stand- ard Time.	D. of M.	Local Mean Time.		TIDE. Stand- ard Time.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.	
1	W	r4 26	3 27	9 38	1	r4 31	3 30	6 36
2	Mo.	s7 30	4 0	10 29	2	s7 25	4 4	7 25
3	Tu.	r4 25	rises.	11 18	3	r4 30	rises.	8 12
4	We.	s7 32	9 25	.....	4	s7 27	9 19	9 7
5	Th.	r4 24	10 25	0 36	5	r4 29	10 19	10 1
6	Fr.	s7 33	11 15	1 31	6	s7 28	11 10	10 54
7	Sa.	r4 23	11 56	2 27	7	r4 29	11 52	11 51
8	W	s7 35	morn	3 22	8	s7 29	morn	0 20
9	Mo.	r4 23	0 29	4 19	9	r4 28	0 26	1 18
10	Tu.	s7 36	0 58	5 18	10	s7 30	0 56	2 16
11	We.	r4 22	1 24	6 16	11	r4 28	1 24	3 14
12	Th.	s7 37	1 49	7 15	12	s7 31	1 50	4 9
13	Fr.	r4 22	2 14	8 7	13	r4 28	2 16	5 3
14	Sa.	s7 38	2 41	8 57	14	s7 32	2 44	5 55
15	W	r4 22	3 11	9 44	15	r4 28	3 15	6 42
16	Mo.	s7 38	3 46	10 30	16	s7 33	3 51	7 26
17	Tu.	r4 22	sets.	11 13	17	r4 28	sets.	8 9
18	We.	s7 39	9 0	11 56	18	s7 33	8 54	8 54
19	Th.	r4 23	9 45	0 17	19	r4 28	9 39	9 38
20	Fr.	s7 40	10 23	1 1	20	s7 34	10 18	10 19
21	Sa.	r4 23	10 55	1 43	21	r4 29	10 51	10 58
22	W	s7 40	11 23	2 26	22	s7 34	11 20	11 43
23	Mo.	r4 23	11 48	3 7	23	r4 29	11 46	0 5
24	Tu.	s7 40	morn	3 50	24	s7 35	morn	0 49
25	We.	r4 24	0 11	4 36	25	r4 30	0 10	1 35
26	Th.	s7 40	0 34	5 27	26	s7 35	0 34	2 25
27	Fr.	r4 25	0 58	6 19	27	r4 30	0 59	3 17
28	Sa.	s7 40	1 24	7 15	28	s7 35	1 26	4 12
29	W	r4 25	1 54	8 12	29	r4 31	1 57	5 8
30	Mo.	s7 40	2 30	9 9	30	s7 35	2 35	6 7
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MOON'S (In Stand
FULL M
LAST Q
NEW MO
FIRST Q
FULL M

BOSTON
D. of M.
Day of W'k.
1 TU.
2 WE.
3 TH.
4 FR.
5 SA.
6 W
7 MO.
8 TU.
9 WE.
10 TH.
11 FR.
12 SA.
13 W
14 MO.
15 TU.
16 WE.
17 TH.
18 FR.
19 SA.
20 W
21 MO.
22 TU.
23 WE.
24 TH.
25 FR.
26 SA.
27 W
28 MO.
29 TU.
30 WE.
31 TH.



	MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
M.	FULL MOON	2d. 9h. 23m. M.	2d. 8h. 23m. M.
A.	LAST QUARTER...	8d. 11h. 43m. A.	8d. 10h. 43m. A.
M.	NEW MOON	16d. 7h. 49m. A.	16d. 6h. 49m. A.
M.	FIRST QUARTER..	24d. 9h. 44m. A.	24d. 8h. 44m. A.
M.	FULL MOON	31d. 4h. 24m. A.	31d. 3h. 24m. A.

Y. D.E. Standard Time.	BOSTON & CHICAGO.				BOST. TIDE. Standard Time.	N. YORK & PHILA.				N. Y. TIDE. Standard Time.
	D. of M.	Day of W'k.	Local Mean Time.			D. of M.	Local Mean Time.			
			SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.		
36	1	TU.	74 26	3 16	10 8	1	74 32	3 21	7 5	
25	2	WE.	57 40	rises.	11 5	2	57 34	rises.	7 58	
12	3	TH.	74 27	9 6	11 59	3	74 33	9 1	8 57	
7	4	FR.	57 40	9 51	0 26	4	57 34	9 47	9 52	
1	5	SA.	74 29	10 29	1 21	5	74 34	10 26	10 42	
54	6	W	57 39	11 1	2 13	6	57 34	10 59	11 34	
51	7	MO.	74 30	11 28	3 3	7	74 36	11 27	0 0	
20	8	TU.	57 38	11 53	3 54	8	57 33	11 54	0 52	
18	9	WE.	74 31	morn	4 47	9	74 37	morn	1 45	
16	10	TH.	57 38	0 19	5 41	10	57 32	0 21	2 39	
14	11	FR.	74 33	0 45	6 37	11	74 38	0 48	3 34	
9	12	SA.	57 37	1 13	7 33	12	57 31	1 17	4 30	
3	13	W	74 34	1 46	8 27	13	74 40	1 51	5 24	
55	14	MO.	57 35	2 24	9 20	14	57 30	2 29	6 17	
42	15	TU.	74 36	3 8	10 9	15	74 41	3 14	7 7	
26	16	WE.	57 34	sets.	10 55	16	57 29	sets.	7 49	
9	17	TH.	74 38	8 22	11 36	17	74 43	8 17	8 32	
54	18	FR.	57 33	8 57	.....	18	57 28	8 52	9 15
38	19	SA.	74 39	9 26	0 37	19	74 44	9 22	9 54	
19	20	W	57 31	9 52	1 16	20	57 27	9 49	10 31	
58	21	MO.	74 41	10 15	1 55	21	74 46	10 14	11 8	
43	22	TU.	57 29	10 37	2 33	22	57 25	10 37	11 48	
5	23	WE.	74 43	11 0	3 11	23	74 48	11 1	0 9	
49	24	TH.	57 28	11 25	3 54	24	57 23	11 27	0 53	
35	25	FR.	74 45	11 52	4 42	25	74 49	11 55	1 41	
25	26	SA.	57 26	morn	5 38	26	57 21	morn	2 36	
17	27	W	74 47	0 24	6 39	27	74 51	0 28	3 36	
12	28	MO.	57 24	1 4	7 44	28	57 20	1 9	4 41	
8	29	TU.	74 49	1 54	8 51	29	74 53	2 0	5 48	
7	30	WE.	57 22	2 55	9 54	30	57 18	3 1	6 52	
.	31	TH.	74 51	rises.	10 54	31	74 55	rises.	7 49	



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	7d. 9h. 19m. M.	7d. 8h. 19m. M.
NEW MOON.....	15d. 11h. 19m. M.	15d. 10h. 19m. M.
FIRST QUARTER..	23d. 8h. 20m. M.	23d. 7h. 20m. M.
FULL MOON	29d. 11h. 35m. A.	29d. 10h. 35m. A.

BOSTON & CHICAGO.				BOST.	N. YORK & PHILA.			N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE. Stand-ard Time.	D. of M.	Local Mean Time.		TIDE. Stand-ard Time.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.	
1	FR.	r4 52	8 23	11 48	1	r4 56	8 19	8 45
2	SA.	s7 18	8 58	0 14	2	s7 15	8 55	9 37
3	S	r4 54	9 28	1 3	3	r4 58	9 27	10 24
4	MO.	s7 16	9 56	1 51	4	s7 12	9 56	11 8
5	TU.	r4 56	10 22	2 36	5	r5 0	10 23	11 56
6	WE.	s7 14	10 48	3 22	6	s7 10	10 50	0 20
7	TH.	r4 58	11 16	4 11	7	r5 2	11 20	1 10
8	FR.	s7 11	11 48	5 5	8	s7 7	11 53	2 4
9	SA.	r5 0	morn	6 3	9	r5 4	morn	3 1
10	S	s7 8	0 24	7 3	10	s7 5	0 29	4 0
11	MO.	r5 2	1 5	8 2	11	r5 6	1 11	4 58
12	TU.	s7 6	1 53	8 57	12	s7 2	1 59	5 54
13	WE.	r5 4	2 47	9 46	13	r5 8	2 53	6 44
14	TH.	s7 3	3 44	10 32	14	s7 0	3 49	7 28
15	FR.	r5 7	sets.	11 13	15	r5 10	sets.	8 8
16	SA.	s7 0	7 56	11 51	16	s6 57	7 53	8 47
17	S	r5 9	8 20	0 9	17	r5 12	8 18	9 26
18	MO.	s6 57	8 43	0 46	18	s6 54	8 42	10 2
19	TU.	r5 11	9 5	1 22	19	r5 14	9 5	10 36
20	WE.	s6 54	9 28	1 59	20	s6 51	9 30	11 12
21	TH.	r5 13	9 53	2 38	21	r5 16	9 56	11 54
22	FR.	s6 51	10 22	3 19	22	s6 48	10 26	0 17
23	SA.	r5 15	10 57	4 9	23	r5 18	11 2	1 8
24	S	s6 48	11 41	5 7	24	s6 45	11 47	2 5
25	MO.	r5 17	morn	6 14	25	r5 20	morn	3 12
26	TU.	s6 44	0 36	7 27	26	s6 42	0 42	4 23
27	WE.	r5 19	1 41	8 38	27	r5 22	1 47	5 36
28	TH.	s6 41	2 55	9 43	28	s6 39	3 0	6 41
29	FR.	r5 21	4 15	10 41	29	r5 23	4 19	7 36
30	SA.	s6 38	rises.	11 30	30	s6 36	rises.	8 25
31	S	r5 23	7 53	31	r5 25	7 52	9 14

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10.
Division.
9m. M.
9m. M.
om. M.
5m. A.

MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER ..	5d. 10h. 29m. A.	5d. 9h. 29m. A.
NEW MOON	14d. 2h. 53m. M.	14d. 1h. 53m. M.
FIRST QUARTER ..	21d. 5h. 5m. A.	21d. 4h. 5m. A.
FULL MOON	28d. 8h. om. M.	28d. 7h. om. M.

N. Y.
TIDE.
Stand-
ard
Time.

BOSTON & CHICAGO.				BOST.	N. YORK & PHILA.			N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	D. of M.	Local Mean Time.		TIDE.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.		Stand-ard Time.
8 45	1	MO.	75 24 8 19	0 38	1	75 26 8 20	9 58	
9 37	2	TU.	56 33 8 46	1 22	2	56 31 8 48	10 39	
10 24	3	WE.	75 27 9 15	2 6	3	75 28 9 18	11 23	
11 8	4	TH.	56 29 9 46	2 51	4	56 28 9 50	.....
11 56	5	FR.	75 29 10 21	3 38	5	75 30 10 26	0 37	
0 20	6	SA.	56 26 11 2	4 32	6	56 24 11 8	1 30	
1 10	7	S	75 31 11 49	5 31	7	75 32 11 55	2 29	
2 4	8	MO.	56 22 morn	6 33	8	56 21 morn	3 31	
3 1	9	TU.	75 33 0 41	7 34	9	75 34 0 47	4 30	
4 0	10	WE.	56 19 1 37	8 29	10	56 18 1 42	5 26	
4 58	11	TH.	75 35 2 37	9 20	11	75 36 2 41	6 17	
5 54	12	FR.	56 15 3 38	10 4	12	56 14 3 42	7 2	
6 44	13	SA.	75 37 4 39	10 45	13	75 38 4 42	7 40	
7 28	14	S	56 12 sets.	11 22	14	56 11 sets.	8 16	
8 8	15	MO.	75 39 7 10	11 56	15	75 40 7 10	8 54	
8 47	16	TU.	56 8 7 32	0 14	16	56 8 7 33	9 31	
9 26	17	WE.	75 41 7 57	0 50	17	75 42 7 59	10 6	
10 2	18	TH.	56 5 8 25	1 28	18	56 4 8 28	10 43	
10 36	19	FR.	75 44 8 58	2 10	19	75 44 9 3	11 27	
11 12	20	SA.	56 1 9 37	2 55	20	56 1 9 43	.....
11 54	21	S	75 46 10 25	3 47	21	75 46 10 31	0 46	
0 17	22	MO.	55 58 11 25	4 50	22	55 58 11 31	1 48	
1 8	23	TU.	75 48 morn	6 2	23	75 48 morn	3 0	
2 5	24	WE.	55 54 0 34	7 16	24	55 54 0 40	4 13	
3 12	25	TH.	75 50 1 49	8 27	25	75 50 1 54	5 23	
4 23	26	FR.	55 51 3 7	9 26	26	55 51 3 10	6 24	
5 36	27	SA.	75 52 4 25	10 20	27	75 52 4 27	7 17	
6 41	28	S	55 47 rises.	11 7	28	55 47 rises.	8 0	
7 36	29	MO.	75 54 6 45	11 49	29	75 54 6 46	8 46	
8 25	30	TU.	55 44 7 13	0 10	30	55 44 7 16	9 30	
9 14	...	...	.....	.....	...	.....	.....

October

1890



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.	MOON'S (In Stand
LAST QUARTER...	5d. 3h. 23m. A.	5d. 2h. 23m. A.	LAST QU
NEW MOON.....	13d. 6h. 5m. A.	13d. 5h. 5m. A.	NEW MO
FIRST QUARTER..	21d. 0h. 36m. M.	20d. 11h. 36m. A.	FIRST Q
FULL MOON	27d. 6h. 42m. A.	27d. 5h. 42m. A.	FULL MO

BOSTON & CHICAGO.				BOST.	N. YORK & PHILA.			N. Y.	BOSTON	
D. of M.	Day of W'k.	Local Mean Time.		Stand- ard Time.	D. of M.	Local Mean Time.		Stand- ard Time.	D. of M.	Day of W'k.
		SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.			
1	WE.	15 57	7 42	0 53	1	15 56	7 46	10 12	1	SA.
2	TH.	5 40	8 16	1 37	2	5 41	8 21	10 54	2	W
3	FR.	15 59	8 56	2 23	3	15 58	9 2	11 42	3	MO.
4	SA.	5 37	9 41	3 10	4	5 38	9 47	0 8	4	TU.
5	W	16 1	10 32	4 4	5	16 0	10 38	1 3	5	WE.
6	MO.	5 33	11 27	5 2	6	5 34	11 33	2 0	6	TH.
7	TU.	16 3	morn	6 2	7	16 2	morn	3 0	7	FR.
8	WE.	5 30	0 25	7 0	8	5 31	0 30	3 57	8	SA.
9	TH.	16 6	1 26	7 55	9	16 5	1 30	4 52	9	W
10	FR.	5 27	2 28	8 44	10	5 28	2 31	5 41	10	MO.
11	SA.	16 8	3 30	9 28	11	16 7	3 32	6 26	11	TU.
12	W	5 23	4 33	10 10	12	5 25	4 34	7 7	12	WE.
13	MO.	16 10	5 36	10 49	13	16 9	5 36	7 43	13	TH.
14	TU.	5 20	sets.	11 26	14	5 22	sets.	8 20	14	FR.
15	WE.	16 13	6 27	.....	15	16 11	6 30	8 59	15	SA.
16	TH.	5 17	6 57	0 22	16	5 19	7 1	9 42	16	W
17	FR.	16 15	7 35	1 5	17	16 13	7 40	10 23	17	MO.
18	SA.	5 14	8 21	1 51	18	5 16	8 27	11 10	18	TU.
19	W	16 17	9 17	2 41	19	16 15	9 23	.....	19	WE.
20	MO.	5 11	10 21	3 38	20	5 13	10 27	0 37	20	TH.
21	TU.	16 20	11 33	4 43	21	16 17	11 38	1 42	21	FR.
22	WE.	5 8	morn	5 53	22	5 10	morn	2 51	22	SA.
23	TH.	16 22	0 48	7 3	23	16 20	0 52	4 0	23	W
24	FR.	5 5	2 4	8 6	24	5 7	2 7	5 3	24	MO.
25	SA.	16 24	3 19	9 2	25	16 22	3 21	6 0	25	TU.
26	W	5 2	4 34	9 52	26	5 4	4 34	6 50	26	WE.
27	MO.	16 27	5 47	10 40	27	16 24	5 46	7 35	27	TH.
28	TU.	4 59	rises.	11 21	28	5 2	rises.	8 15	28	FR.
29	WE.	16 29	6 12	.....	29	16 26	6 16	9 2	29	SA.
30	TH.	4 56	6 49	0 26	30	4 59	6 54	9 47	30	W
31	FR.	16 32	7 32	1 11	31	16 29	7 38	10 29	.....	.....

December

1890



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	4d. 8h. 26m. M.	4d. 7h. 26m. M.
NEW MOON	11d. 10h. 11m. A.	11d. 9h. 11m. A.
FIRST QUARTER..	18d. 3h. 36m. A.	18d. 2h. 36m. A.
FULL MOON	26d. 0h. 57m. M.	25d. 11h. 57m. A.

BOSTON & CHICAGO.				BOST.	N. YORK & PHILA.			N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	Stand-ard Time.	Local Mean Time.		TIDE.
		SUN R.&S.	MOON R.&S.			D. of M.	SUN R.&S.		MOON R.&S.	Stand-ard Time.
1	MO.	17 9	9 0	2 21	1	17 4	9 5	11 39
2	TU.	17 28	10 1	3 5	2	17 33	10 5	0 2
3	WE.	17 11	11 2	3 51	3	17 6	11 5	0 50
4	TH.	17 28	morn	4 39	4	17 33	morn	1 38
5	FR.	17 14	0 3	5 29	5	17 8	0 5	2 27
6	SA.	17 28	1 5	6 20	6	17 33	1 6	3 18
7	S	17 16	2 8	7 10	7	17 10	2 8	4 6
8	MO.	17 28	3 13	8 0	8	17 33	3 11	4 56
9	TU.	17 17	4 20	8 49	9	17 12	4 17	5 47
10	WE.	17 28	5 30	9 39	10	17 33	5 26	6 38
11	TH.	17 19	6 42	10 31	11	17 14	6 37	7 26
12	FR.	17 28	sets.	11 21	12	17 33	sets.	8 16
13	SA.	17 21	6 0	.....	13	17 16	6 6	9 10
14	S	17 28	7 10	0 39	14	17 34	7 16	10 2
15	MO.	17 22	8 25	1 33	15	17 17	8 30	10 55
16	TU.	17 29	9 42	2 28	16	17 34	9 45	11 50
17	WE.	17 24	10 57	3 20	17	17 18	10 59	0 18
18	TH.	17 29	morn	4 15	18	17 35	morn	1 14
19	FR.	17 25	0 10	5 13	19	17 20	0 11	2 11
20	SA.	17 30	1 21	6 10	20	17 36	1 20	3 8
21	S	17 26	2 30	7 8	21	17 21	2 28	4 5
22	MO.	17 31	3 39	8 3	22	17 37	3 36	4 59
23	TU.	17 27	4 48	8 56	23	17 22	4 44	5 53
24	WE.	17 32	5 56	9 47	24	17 38	5 51	6 45
25	TH.	17 28	6 59	10 36	25	17 22	6 53	7 32
26	FR.	17 34	rises.	11 21	26	17 39	rises.	8 15
27	SA.	17 29	5 48	.....	27	17 23	5 54	9 4
28	S	17 35	6 48	0 28	28	17 40	6 53	9 47
29	MO.	17 29	7 49	1 11	29	17 24	7 53	10 27
30	TU.	17 36	8 50	1 53	30	17 42	8 53	11 7
31	WE.	17 30	9 52	2 33	31	17 24	9 54	11 50

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Ther. WED. JAN. 1, 1890 Rain Wea.

Reach Clifton Forge at 6 AM on No 3. Returning from a trip to Deepport Mines and Richmond - Breakfast at C. F. Make a short visit to Iron Gate and walk back to Clifton F. Arrive at Low Moor on No 31 at 11 AM -

Ther. THURSDAY 2 Wea.

In draughting room until noon. Working drawing for health & bush Low Moor Furnace Blast #2 -

Go up to mines to dine at H. G. Merry's with Jone Merry, Miss Merry & Mrs Thomas. Drive back with Miss M -

Ther. FRIDAY 3 Wea.

In draughting room -

Horton Pig Iron 348 tons -
rails 6138 lbs -

Ther.

SAT. JAN. 4, 1890

Weather.

In draughting room -
 Walter Nelson here
 John Starn & H. J. Merry
 go to Reservoir on
 Shenandoah Valley Ry to
 inspect property of 8000
 acres belonging to Eekels Bell
 & Cutlett of Staunton on which
 they have option at \$250,000
 to loan \$5,000 for making sale.

Loa
 50.00
 after d
 John
 to a

Ther.

SUNDAY 5

Weather.

Cargill, Ray, Cabell & I go
 up to Quarry to see coal in
 new tunnel P.M.

Cargill, Ray, Seaton, Williams
 & I go to Clifton Forge to
 see water works and city.
 Supper then returning on
 N. V. at 7.35.

Missionary meeting at Church.

Mr.
 Birds
 \$31.0
 Starn
 \$34.
 Starn
 \$29.00

Ther.

MONDAY 6

Hazy

Weather.

In draughting Room
 Finish drawings & tracings.
 Loading car of fine dust

Mr. Williams caused great
 excitement in Ashland Ky
 in attempting to enter the
 home of Grandfather Nelson.

or 7
 2
 80
 mee
 Call
 Talk
 and K

Weather.

TUES. JAN. 7, 1890 Hazy Wea.

loading car of Blue Duck
50,000 lbs Water = 8.50%
after drying Tare = 56.63

John Ham here - wants me
to see on in Aabland if possible

Weather.

WEDNESDAY 8

Wea.

Mr. Johnson of Union Mining Co Mt Savage
Bids for Hearth & Book -

13½" x 9" brick No. 1 Quality
\$31.00 per 1000 (7000 lbs) delivered
Stamton -

Cone Blocks for Hearth No. 1 Quality
\$34.00 per 1000 (7000 lbs) delivered
Stamton -

Bids for Lining Inwall
\$29.00 per 1000 (7000 lbs) 2nd Quality -

Weather.

THURSDAY 9

Wea.

or \$31.00 per 1000 for 12" x 20" blocks -
Stamton delivery

Go to Clifton Forge to attend
meeting of Knights of Pythias -
Call at Pendletons and Joe Boyants -
Talk with Ybet about Iron Gate
and Buchanan -

Ther.

FRI. JAN. 10, 1890

W

Ther.

Return to house Moor in AM
Packing Box and at Bureau
Miss Merry & I drive to
Clifton Forge to see dentist.

An
find
Call
+ Ma
also

Large sale of iron lots at
Iron Gate & Clifton Forge
with large rise in values

Call
Ind
to Be

Ther.

SATURDAY 11

W

Ther.

Finish my packing and
send trunks to Depot
Call at Merry's in P.M. and
eat supper there -

Ma
four
dollar

Spend night with Cargill

Chia
Belley
the

N. J. W. Pig Iron 330 tons
Trails 5724 kegs

Ther.

SUNDAY 12

W

Ther.

John Ham down from Covington

After

~~We~~ went call at Ed's Quaint
Millian's, Dr Rogers, Lawrence
Cargill and Mrs. Merry at mine
Supper at Capt Merry's -
Leave on No. 1 for Kentucky
train 45 min late

Charl
Ed's
No 9
run
its g
and

Send
miles

W
her.

MON. JAN. 13, 1890

Wea.

14

Arrive in Oakland at 4,30 A.M.
 Find Mattie, Row, Bildrett & Harold at home -
 Call at Grandfather's - find Aunt Maggie
 & Mary Ann. Grandfather & Tom Adams there
 also Tom Culbertson -
 Call at Band & ~~Salad~~ Shops -
 In P.M. Tom Culbertson & I go out
 to Bellefonte to see folks there.

W
her.

TUESDAY 14

Wea.

Make first deposit at Oakland Nat.
 Bank - Call at shops & pay one
 dollar for Ed Seaton -

Charley Means & I walk out to
 Bellefonte Furnace. Where we spend
 the night. John Seaton Esq there -

Write to G. Carville

W
her.

WEDNESDAY 15

Rain
Wea.

After spending the day at Bellefonte
 Charley & I walk in P.M.
 Ed Roberts gets out his new locomotive
 No 9 A.C. & I Ry Co. Shops. After
 running a short distance tears
 its guides loose on right side
 and is sent back for repairs -

Send back to Low Moor Carville 1000
 miles ticket. Write to E. Seaton & N. L. H.

Ther.

THURS. JAN. 16, 1890

We Ther.

Wellsland Bank trying to get
a meeting of the Directors of
the N.Y. S. & W. Co. Unsuccessful
on acct of Father's absence.

Ther.

FRIDAY 17

We Ther.

Rose has a meeting of the
Literary Society - Present.
Misses Fannie, Eliza & Henri Jones - Sallie
Martin, Mrs. Wm. of Ramsey - Elizabeth
Ella Eads, Mrs. John Hager - Rose Meaux
Misses Hugh Hampton, Louie Davis -
Sam Ireland, John Henderson Phil Gay
John Hager, Harry & Cora Meaux

Ther.

SATURDAY 18

We Ther.

Write to Capt. Merry & Miss Merry
Rec. letter from Cayill -
Go out to Bellefonte to spend
Sunday -

Recd \$100⁰⁰ from J. S. Savage

Low Moor Fee 4
for week.

825 $\frac{700}{2500}$ ton

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Wea Ther.

SUN. JAN. 19, 1890

Wea.

At Bellefite -
Saw Deaton has the Giffen -

Wea Ther.

MONDAY 20

Wea.

Walk into Ashland - Rec letter
from Capt Merry - enclosing
one from Jenkins & an annual pass
for self over C & O Ry -
Will come in P.M. We call on John
Hayes. Later Mrs A. A. Adams
Miss M. A. Means, Mr Culbertson, &
Father meet to advise about a
guardian for Thos W. Means -

Wea Ther.

TUESDAY 21 Director of Wea.

A called meeting of the I. C.
& Mfg Co was held in their office today
Present. D. O. Geiger, W. Houshell, John Russell
& John Means - C. M. Wilson resigned
the office of Secretary and E. C. Means
was elected to the place -

The President was authorized to sell
to the parties proposing to build the
Steel Plant, the tract between the N. D. W.
and C. St and the R. R. and River for the
price of \$3000.00.

Ther. WED. JAN. 22, 1890

Wea. Ther.

At the A.C. & I. Office -
Have the Bankbook of the Ky. I.C. & Mfg
at the bank and items entered -
Father spends the day at home -
I write the Minutes of the Directors
meeting in the Record Book -

W.B. Seaton goes to Cincinnati on 11-3.
The Directors of the Norton Iron Works
meet in Ashland to consider Steel Plant
project -

Ther.

THURSDAY 23

Wea.

Ther.

Father & I in Ky. I.C. & Mfg Co office
working on Day Book -
Harry at Bellefonte over night.

List for City Taxation -

J. H. Meaus	\$2.00
J. W. Meaus	78 $\frac{50}{100}$
M. A. Meaus	731 $\frac{55}{100}$
John "	289 $\frac{80}{100}$
W. F. "	755 $\frac{02}{100}$

FRIDAY 24

Wea.

Ther.

Mill
train
turned
to Bal
Nort

St

Res
Com
and
Din
In

In

ea. Ther. SAT. JAN. 25, 1890 Wea.

Will Seaton returns on midnight
train from Cincinnati - Having
turned the M.C. business over
to Baber Hunt -
Write to M. M. M.

Horton - week ending 26th -
Pig Iron 398 tons -
Nails 3819 kegs.

ea. Ther. SUNDAY 26 Wea.

Bessie and Hilda + Esabella
come in with Charlie + Magy
and take dinner with us.
Dinner 4 miles to a wagon -
In morning Episcopal Church
& Evening Methodist - &

ea. Ther. MONDAY 27 Wea.

In M.C. & M.C. office

Ther.

TUES. JAN. 28, 1890

Wea

Ther.

Make out assessment papers
for City for Hys. & C. & Mfg Co

In

Re

pay

Rep

at

he

Ther.

WEDNESDAY 29

Wea

Ther.

Finish work on Mother's books to date.
Deliver notice of notes to
Northrup Dept. O.V.B.S. Ry

The

No 8

\$19

Ther.

THURSDAY 30

Wea

Ther.

Party at Hotel by J.M. Brocks
& wife. Among those present
Dan, Charley, Sully & Mrs Martion
Mr. & Mrs & Miss Northrup, Judge Savage
W.C. Richardson, J. Pollack, Tom Davis
S. R. Ireland, Fannie Jones, Homer
Sherrit, Frank & Mrs Moon, Mr & Mrs
Rockwell, Mr & Mrs Keough - ~~St.~~
Mr. & Mrs Freshour Dr & Mrs Wade etc

ea Ther.

FRI. JAN. 31, 1890

Wea.

In Ky. I. C. & Mfg Co's Office

Rec letter from E. E. Seaton
saying that Albert Ray
Nephew of Mrs Henry Merry
at Low Moor Va had
become insane

ea

Ther.

SATURDAY, FEB. 1

Wea.

The Ky. I. C. & Mfg Co pay a dividend
of \$2 per share on
\$199,000⁰⁰ or 4% —

ea

Ther.

SUNDAY 2

Wea.

Baptist Church A.M.
Methodist Church P.M.

Ther. MON. FEB. 3, 1890

Wear Ther.

In Office: Rain

offer Boston Stocks at 40%

Low Moor Lest Msh 804 tons

Boston " " 325 "

" " " 5331 kegs nails

John
24
40
30
Sel
Mud
Ja
Belle
75⁰⁰

Ther.

TUESDAY 4

Wear

Ther.

In office.

Will Seaton in

father & will ride to fee

Mr.
Rea
+
Mud

Ther.

WEDNESDAY 5

Wear

Ther.

Give Kilgorn's verbal notice
to vacate -

Visit Boston Iron Works

Where Mr. Kenton's sons are
reboring cylinder of rolling
mill engine - John & Walter

Wea. Ther.

THURS. FEB. 6, 1890

Wea.

John Means for City Assessor 1890
24 Acres Academy 7800.00

70%

43 Lots 14900.00

3 Carriages 3.00

Silverware etc 150 450.00

Under Equalization 5,913.76

raib

Total \$29,063.76

~~James M^cConville here
in Bellefonte. Farms over the
75⁰⁰ deposited with him by father~~

Wea. Ther.

FRIDAY 7

Wea.

Mrs Harriet E. Means

Real Estate Lots N^o 84 R42

+ N^o 47 R32

800.00

Under Equalization

25,351.75

Total

\$26,151.75

Wea.

Ther.

f

SATURDAY 8

Wea.

tin

any

ter

Ther. SUN. FEB. 9, 1890 Wea.

M. E. Church A. M.

Walk to Bellefonte in P. M.
and spend the night there

Ther. MONDAY 10 Wea.

Rec. ~~2000~~ from S. S. Savage
Walk in Ashland in A. M.
Rec. letter from Capt. Merry
also from Boston -
Means Kyle & Co make
a 5% dividend -
Father comes in to meet
Gen. S. F. Hunt who does
not come

Ther. TUESDAY 11 Wea.

Write Congill -
Pay City taxes for
J. M. T. W. M. - M. A. M.
M. E. M. & J. H. M. - to R. C. Rich.
ardson Call -

Ther.
Flour
10th
6 pots
1 car
Silver
M
M
/

Ther.
Ja
ther
with
The
to
out to
Ja
no
Pompo
of Ha

Ther.
Jo
aber
The
at

Ther.

WED. FEB. 12, 1890

Wea.

Thos. W. Means for City Assessor
10th Jan 1890

6 Lots Nos 1, 2, 3, 7, 8, 9. Range 6 th	7000.00
1 Carriage	100.00
Silver Ware Matches Clocks Piano etc	300.00
	<u>\$ 7400.00</u>

Miss M. A. Means -

Murder Equalization	57.634.00
1 Horse	100.00
1 Cart	
	<u>57759.00</u>

Ther.

THURSDAY 13

Wea.

James McCoville here -
 terms over the 75th deposited
 with him by father in Oct 88
 The Louisville board of
 trade committee here -
 out to Denton on the 8.

Lay Putnam & I call at
Northrup's -

Proposition to sell one lot back
of Hotel to Henderson @ \$2000

a.

Ther.

FRIDAY 14

Wea.

Tom Culbertson in to tell
about leaving Pine Grove tree.

b.

The P. Inquiry Club meets
at Frank Henderson's -

Ther.

SAT. FEB. 15, 1890

Wea

Ther.

Looks over sand lands with
Conrad Hyman

Tany 18

M.T.

I r

of Ky

for a

ward

Rec lei

Land

delaye

Hard

Ther.

SUNDAY 16

Wea

Ther.

Alford Spaulding of N.Y. here

writ

I. m

In P.M. visit Bessie & Father
at Bellefonte Pa.

Low

meel

a C

also

quar

Fath

Ther.

MONDAY 17

Wea

Ther.

In Ky. I. C. & My Co's office

Pa

Ther. TUES. FEB. 18, 1890 Wea.

Jan 1858 - Feb 1890

M. T. Hilton, John Russell Jr
I run over outside lines
of Ky. I. C. & N. Ry Co's property as
far as Carbuets commencing near
wards below town -

Rec letter & write to Low Moor
Land slide this side of Means tunnel
delays trains on A.P. & I. Ry -
Hard hail storm -

Ther. WEDNESDAY 19 Wea.

write to N. Ry -

Rain

In office -

Low Moor Directors at
meeting in New York declared
a 6% Dividend -
also voted to pay dividends
quarterly hereafter
Father not there

Ther. THURSDAY 20 Wea.

Rain & Cold

Ther.

FRI. FEB. 21, 1890

Wea.

Ther.

Mr. M. J. Hilton & I go over
some of the lines of the
Campus back of the Park
and in upper part of Ashland

Inquiry Club met at Eads
Progressive Conversation
J. W. Henderson 1st prize
Mrs. S. R. Ireland 1st prize

Ther.

SATURDAY 22

Wea.

Ther.

In office -

Sub. M. Leavenworth for
river floor. Reach there
one hour late at 11:30

Stay at Capt. H. Merrys
who with wife had been
to N.Y. & Phila.

Ther.

SUNDAY 23

Wea.

Ther.

Spent the day with the boys
and at farm -

Spent at mines with Harry
in evening attend Rev. Hills
service at church

Cabell & wife have separated
she taking child - Trouble
said to be Cabell's abusive
treatment & language

Jill
Mie
For
Mr. &
John
for
Skel
Will
Ther.
John
The Ro
Lows
Pess

Ther.

MON. FEB. 24, 1890

Wea. Rain

Furnace, Quarry &
Mines - Leave on No. 1
for Ashland -

Mr. George Merry at mines -
John Pearl has left them
for Benmatista - Albert
Skelding is in saloon at Hinton
Hill has resigned as the

a. Ther.

TUESDAY 25

Wea. Rain

Division Supt of C. & O. Ry -

John Ham has an option on
the Robertson tract above the
Low Moor property -

Busch hour at 5.30 A.M.

Wea. Ther.

WEDNESDAY 26

Wea.

Ther.

THURS. FEB. 27, 1890

Wea.

Ther.

Jay Northrop talks of getting Eastern parties interested in Oakland North Iron Works etc

Letter in from Bellefonte

Ther.

FRIDAY 28

Wea.

Ther.

Inquiry Club meets with Rose last night

Ther.

SATURDAY, MAR. 1

Wea.

Ther.

Law Moor pay 6% dividend

M. J. Hilton & Tom Culbertson at office

Wea.

Ther.

SUN. MAR. 2, 1890

Wea.

M. C. Church A. M.

In P. M. Walk with Aunts
to Charley

Wea.

Ther.

MONDAY 3

Wea.

At Office A. M.

P. M. visit Kellogg Sta
with Aunts Molly, Maggie
& Edwin to see Aunt Maggie's
property there

Wea.

Ther.

TUESDAY 4

Wea.

Write to S. J. Hunt for Father

Ther.

WED. MAR. 5, 1890

Wea.

Ther

Snow

Ther.

THURSDAY 6

Wea.

Ther

Ther.

FRIDAY 7

Wea.

Ther

N. J. W -

Nails 5875 kegs
Iron 369

Used 667 tons Coal 213 tons Coke
595 tons Bark Ore 203 tons Cinder
308 tons limestone -

Wea.

Ther.

SAT. MAR. 8, 1890

Wea.

Father grants option
to John Hager on Academy
property @ \$20.000 until
24th inst for one hundred dollars

Chasley gives option on Hill
land and lots @ \$9.000

Wea.

Ther.

SUNDAY 9

Wea.

Bessie, Will, Hilda & Isabella
come in to spend day with
Aunts Maggie & Mary Ann -

Wea.

Ther.

MONDAY 10

Wea.

John Hager & Ahe Campbell
are securing options
on land and real estate
in Ashland -

Take
index

Also considering the
acquisition of the control
of the Hy. & Co Mfg Co as
per.

Ther.

TUES. MAR. 11, 1890

Wea.

Ther.

Father & Aunt Magg's
agree to sell their stock
in Ky. I & C. Mfg Co at
par provided their
friends are approached
on same terms.

Campbell buys 13 lots
bet Q & H. facing Winchester
\$4200 —

Ther.

WEDNESDAY 12

Wea.

Ther.

P. Moriarty Jr buys
500 x 127½ land above
Q Street and north
of Railway Avenue produced
\$3000 —

visit Trouton to
see Campbells & Clarke
who agree to sell their
stock at par —

Ther.

THURSDAY 13

Wea.

Ther.

Campbell buys
Miller property and
opens Real Estate Office
on Broadway —

Hager buys stock in
the German Company
land below Ashland

ea.

Ther.

FRI. MAR. 14, 1890

Wea.

Real Estate Excitement
commences by the
arrival of parties from
different states -

ea.

Ther.

SATURDAY 15

Wea.

Ashland Improvement Co
organized -

Agree to buy controlling
interest in Ky. I. C. & M. Co.
at par. Buy also
Academy Property -

D. D. Seigers from
J. W. Bartrello from
W. L. Seigers

ea.

Ther.

SUNDAY 16

Wea.

Will Seaton & I go
to Cincinnati -
Jay Northrop on train
Stop at Gibson House -

Ther.

MON. MAR. 17, 1890

Wea.

Ther.

Call on Gen. F. Hunt.
 David Sinton, A.S. Winslow
 also buy suit of clothes
 from Daniels Combs & Co.
 Return on No 4 at night

North up anxious to know
 if contract of Ky. I. C. & Mfg. Co.
 can be purchased at par

Ther.

TUESDAY 18

Wea.

Ther.

Real Estate business
 booming in Ashland
 Three exchanges open -
 Ky. I. C. & Mfg. Co. with draws
 all lots from sale for
 the time being -
 \$30,000 worth changes
 hands -

Ther.

WEDNESDAY 19

Wea.

Ther.

Everyone wild about
 the boom again \$30,000
 or more property changes
 hands. Considerable
 outside money comes
 in to be used

a.

Ther. THURS. MAR. 20, 1890 Wea.

Father receives par for
his Stock in Hy. I. Co & My Co

Father \$10,000.00

Mother 5,000

Margaret 10,000

Irmita Campbell's 6,400

Second Motion 8,000 +

and others - Contrall

undoubtedly secured

ea.

Ther. FRIDAY 21 Wea.

Ve.

Ther. SATURDAY 22 Wea.

Ther.

SUN. MAR. 23, 1890

Wea.

Ther.

At Catlettsburgh to
see high water with
Robt J. Toms -
Water over RR at
D. W. Geigers

Ther.

MONDAY 24

Wea.

Ther.

Called meeting of Directors
of Ky. S. Coal & Mfg Co

John Means resigns as
Director and as Pres.
John F. Hays elected a Director
and D. D. Geiger Pres.

Ther.

TUESDAY 25

Wea.

Ther.

The Ashland Improvement
Company purchases the
Academy property for
\$20,000 ^{one} ^{half} cash.
 $\frac{1}{4}$ at one year with interest
 $\frac{1}{4}$ in two years

Ther.

WED. MAR. 26, 1890

Wea.

Father Goes to Bellefonte

Ther.

THURSDAY 27

Wea.

At Catlettsburg with
D. D. Seiger relinquishing
licens

Ther.

FRIDAY 28

Wea.

The Ashland Improvement
Company has
\$96,550.00 of Capt Stock
of Nye, J. C. & Mfg Co

Ther.

SAT. MAR. 29, 1890

Wea.

Ther.

Sell Mrs Hyles Stock and
take up notes -
Remit Balance

Ther.

SUNDAY 30

Wea.

Ther.

Ther.

MONDAY 31

Wea.

Ther.

Ther.

TUES. APRIL 1, 1890

Wea.

Ther.

WEDNESDAY 2

Wea.

Ther.

THURSDAY 3

Wea.

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PAGE(S)**

Ther. THURS. APRIL 10, 1890 Wea. Ther.
Jos. A. Mack here

Ther. FRIDAY 11 Wea. Ther.

Ther. SATURDAY 12 Wea. Ther.

a.

Ther.

SUN. APRIL 13, 1890

Wea.

Wm. A. Mack leaves for Cincinnati with Father for Alabama

Spend night at Bellefonte

Wea.

Ther.

MONDAY 14

Wea.

Wea.

Ther.

TUESDAY 15

Wea.

Ther.

WED. APRIL 16, 1890

Wea.

Ther.

Ther.

THURSDAY 17

Wea.

Ther.

Ther.

FRIDAY 18

Wea.

Ther.

Thos Adams here
Lily home

Wea.

Ther.

SAT. APRIL 19, 1890

Wea.

Dr Geo Hildebrth Hess

Mill Basin & Children in

Wea.

Ther.

SUNDAY 20

Wea.

Wea.

Ther.

MONDAY 21

Wea.

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PAGE(S)**

Ther.

SAT. MAY 10, 1890

Wea.

Ther

Ther.

SUNDAY 11

Wea.

Ther

Ther.

MONDAY 12

Wea.

The

a.

Ther.

TUES. MAY 13, 1890

Wea.

ea.

Ther.

WEDNESDAY 14

Wea.

ea.

Ther.

THURSDAY 15

Wea.

Bessie & Isabella & Milda
Rose & Lily leave
for Woodhouse Mill
Miss Seaton for Lunt Moor

Ther.

FRI. MAY 16, 1890

Wea.

Ther.

Ther.

SATURDAY 17

Wea.

Ther.

Ther.

SUNDAY 18

Wea.

Ther.

[Faint, illegible handwriting]

Ther.

MON. MAY 19, 1890

Wea.

Ther.

TUESDAY 20

Wea.

Sold at auction
\$4,900 lots by
N.Y. J.C. & M.P. Co and
for improvements

Ther.

WEDNESDAY 21

Wea.

Meeting Stockholders
and Directors of the
N.Y. J.C. & M.P. Co - old
board Re-elected —

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PAGE(S)**

Ther.

TUES. JUNE 3, 1890

Wea.

Ther.

Grandfather Mearns
sinking -

Ther.

WEDNESDAY 4

Wea.

Ther.

Ther.

THURSDAY 5

Wea.

Ther.

Wea.

Ther.

FRI. JUNE 6, 1890

Wea.

Wea.

Ther.

SATURDAY 7

Wea.

Wea.

Ther.

SUNDAY 8

Wea.

Grandfather
Thomas Williamson Means
died at Ashland Ky at
8-17 A.M. old age
Present at death bed
were Mr Margaret &
Mary A. and grandchildren
86 yrs & 6 mos old.

John Means in Alabama

Ther.

MON. JUNE 9, 1890

Wea.

Ther.

Mr Means unable to
return to funeral on
account health -

Archibald Means }
Robt Ellison } Gen.
Pres Allison }

Ther.

TUESDAY 10

Wea.

Ther.

Funeral services of
F. W. Means at house
burial at Woodlawn
Cemetery Dayton O -

Ther.

WEDNESDAY 11

Wea.

Ther.

Wea.

Ther.

THURS. JUNE 12, 1890

Wea.

Wea.

Ther.

FRIDAY 13

Wea.

Wea.

Ther.

SATURDAY 14

Wea.

Arch Meares leaves for
Peru into his home

Ther.

SUN. JUNE 15, 1890

Wea.

Ther.

Ther.

MONDAY 16

Wea.

Ther.

Ther.

TUESDAY 17

Wea.

Ther.

Mr. Henry Merry of Low
Moore Va died this Morning

ea.

Ther.

WED. JUNE 18, 1890

Wea.

Pay 15% dividend

Hig. J. C & Munniff Co.

Henry Merry, Harry Merry
Thos. Merry & Mrs. Thomas

& Dr. Phillips pass on way
to Tallmadge Ohio to Mrs

Merrys funeral - I go Columbus

ea.

Ther.

THURSDAY 19,

Wea.

In Cincinnati to meet
Thos. A. Mack.

Dine at University Club
with Mack, Chas. Alden,
John Keyes and others.

Return to Ashland on C&O
A.C. Campbell on train.

Wea.

Ther.

FRIDAY 20

Wea.

Ther.

SAT. JUNE 21, 1890

Wea.

Ther.

Ther.

SUNDAY 22

Wea.

Ther.

Ther.

MONDAY 23

Wea.

Ther.

At Boyd County Court to have
will of J. W. Meant probated -
summons issued to have
notice served on heirs -

Ther.

TUES. JUNE 24, 1890

Wea.

Ther.

WEDNESDAY 25

Wea.

a. Ther.

THURSDAY 26

Wea.

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PAGE(S)**

Ther.

THURS. JULY 3, 1890

Wea.

Ther.

Ther.

FRIDAY 4

Wea.

Ther.

Ashland Fair at park
drive over with Miss Adelle
Gaines of Frankfort, Ky.

Ther.

SATURDAY 5

Wea.

Ther.

Eugene B. Willard from
Hanging Rock here to see about
the park -

Make final payments on the
W. H. Geiger purchase for the
Ashland Improvement Co.

Ther.

SUN. JULY 6, 1890

Wea.

Miss Emma Crockett
Lexington Ky left for
home @ 1.30

Ther.

MONDAY 7

Wea.

Ther.

TUESDAY 8

Wea.

Ther.

WED. JULY 9, 1890

Wea.

Ther.

Visit Lexington to meet
father and return same
day.

Se
sto
as

L

Ther.

THURSDAY 10

Wea.

Ther.

O
A
P
u

Ther.

FRIDAY 11

Wea.

Ther.

Meeting of stockholders
of the Ash Grove Lumber Co
and Ly. Iron Coal & Mining Co.
Vote donation \$10,000 to
aid Steel Plant and for site

Edw. Buckner, Frank Green,
Willie King, S. Thompson, here

rd
a
d
B
on

ea.

Ther.

SAT. JULY 12, 1890

Wea.

Send out notices to
stockholders & laborers in
Ashland.

Leave on No 2 for
Low Moor Va

ea.

Ther.

SUNDAY 13

Wea.

Low Moor, Va -
A. S. Winslow here

Visit Quary & Clifton Forge
with Seaton & H. S. Merry

ea.

Ther.

MONDAY 14

Wea.

Low Moor.
Visit Mines and dine
at H. S. Merry.

Business in P.M.

Leave on No 1 for Ashland

Go lay track in Ashland
on Front Street

Ther.

TUES. JULY 15, 1890

Wea. Ther.

Reach
Auckland at 3 AM.

Thos. A. Mack comes
up on St^o of John Cinti

Ther.

WEDNESDAY 16

Wea. Ther.

Ther.

THURSDAY 17

Wea. Ther.

Father, Mather & Pass
leave for Waukesha
Wis. on S. Wat 4^h 30'
Mr. Spiller Housekeeper

Wea. Ther.

FRI. JULY 18, 1890

Wea.

Wea. Ther.

SATURDAY 19

Wea.

Wea. Ther.

SUNDAY 20

Wea.

Ther.

MON. JULY 21, 1890

Wea.

Ther.

Tom Adams and I
go to Cincinnati

Supper the University Club
with Mr J. A. Mack

Sleep at Gibson House

Ther.

TUESDAY 22

Wea.

Ther.

Call at Mack's office
and Sinton's office -

Tom surrenders Europa
Stock Collateral and secures
certified check of J. A. Mack
in payment notes in favor
J. W. M. -

Ther.

WEDNESDAY 23

Wea.

Ther.

Meeting of the Directors
of the Norton Iron Works
to consider steel plant
Meet at Catlett's burg
with Capt. Honshell
present Starke, Gann
Honshell, Green & self

Call Stockholders Meeting
for 6th August

7ea.

Ther.

THURS. JULY 24, 1890

Wea.

h

Wea.

Ther.

FRIDAY 25

Wea.

us
ok

Wea.

Ther.

SATURDAY 26

Wea.

un
f
ny

Ther.

SUN. JULY 27, 1890

Wea.

Ther.

Ther.

MONDAY 28

Wea.

Ther.

Will of Thos. M. Mearns probated
at Cutletts bury -

H. E. Huntington Her
gets deeds for lands
from Ky. J. C. & M. J. Co
and Ashland Imp Co

Ther.

TUESDAY 29

Wea.

Ther.

Thos M. Adams and self
appointed Administrators
with Will annexed
of Thos M. Mearns -

Drive with Louise
Montmullin -

Wea.

Ther.

WED. JULY 30, 1890

Wea.

Moving office to
16th St or Broadway

Wea.

Ther.

THURSDAY 31

Wea.

tid

Wea.

Ther.

FRIDAY, AUG. 1

Wea.

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PAGE(S)**

Ther.

WED. AUG. 20, 1890

Wea.

Ther.

Ther.

THURSDAY 21

Wea.

Ther.

Circle with Hager & Seaton

Ther.

FRIDAY 22

Wea.

Ther.

Laboratory

a.

Ther.

SAT. AUG. 23, 1890

Wea.

a.

Ther.

SUNDAY 24

Wea.

Breakfast	3	2.50
Dinner	4	3.95
Breakfast	3	2.00
Dinner	3	2.10
Supper		2.00
		<u>12.55</u>
Books		2.25
Theater		1.50
Cigars		.75

a.

Ther.

MONDAY 25

Wea.

Paper		.15
Fee		.25
		<u>17.45</u>
		14.95
		<u>32.40</u>

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PAGE(S)**

Ther.

FRI. SEPT. 19, 1890

Wea.

Ther.

Ther.

SATURDAY 20

Wea.

Ther.

Ther.

SUNDAY 21

Wea.

Ther.

Wea.

Ther.

MON. SEPT. 22, 1890

Wea.

School Lease

Wea.

Ther.

TUESDAY 23

Wea.

Wea.

Ther.

WEDNESDAY 24

Wea.

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PAGE(S)**

Ther. J. W. M.

SAT. DEC. 6, 1890

Wea.

Ther.

MT Auburn C R Co

$$\$25 \times 2 = \$50.$$

~~#35~~
Cureka

$$\$35 \times 25 = \$875$$

Ther.

SUNDAY 7

Wea.

Ther.

M. A. Adams

$$\text{Cureka } \$35 \times 5 = \$175$$

Ther.

MONDAY 8

Wea.

Ther.

Big 4 10 @ 90

D & M C 60 @ 74

C & P 20 @ 145

Ther.

TUES. DEC. 9, 1890

Wea.

Ther.

WEDNESDAY 10

Wea.

Ther.

THURSDAY 11

Wea.

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PAGE(S)**

Ther.

THURS. DEC. 18, 1890

Wea.

Ther.

Ther.

FRIDAY 19

Wea.

Ther.

U S Mail Line Co

No 71 Boxes 13

3 Sept 1883 \$10000

Ther.

SATURDAY 20

Wea.

Ther.

New Cert's No 7
for 37 shares 37

12th May 1890

ea.

Ther.

SUN. DEC. 21, 1890

Wea.

Wea.

Ther.

MONDAY 22

Wea.

Wea.

Ther.

TUESDAY 23

Wea.

**BLANK
PAGE(S)**

Ther.

TUES. DEC. 30, 1890

Wea.

\$
from
for

Ther.

WEDNESDAY 31

Wea.

2
m
B

Ther.

MONDAY

Wea.

MEMORANDA

\$ 5.20 for 40% line from
from Moisture - 63¢ per unit
for each additional unit -

Pattern

200 x 200 ft - Donation or Loan
with percentage of purchase -
Below machine shop -

MEMORANDA

Open Glass Mines &
Pie Shovel Mrs. [unclear]
[unclear] [unclear] [unclear]

Sold 24th July 1890

No 209 - dated May 14 1872
for Fifty shares -

186 - dated 9th Sept 72
for Ten Shares

2nd National Frontier Co
at Par -

MEMORANDA 5th Aug -

Total 752,502.44
Personal
Estate of Thos M. Meaus-
18000 + Real

MEMORANDA

Potts J. M., Bailey	450 shares
John Barker Est	598 "
Condit W. E.	298 "
Oles Frank	200 "
M. A	1800 "
Hell M. Ellen	127 "
Gratz W. S.	129
L. C	127
Walker	127
Gaylord North B	300
Helen M	300
Mrs M. J.	390
Mrs R. L.	600
Guthrie Geo W	90
Miller Mrs SC	1004
Norton G. B.	300
Minnic W. H.	450
Potts - W. K.	150
Frank B.	45
Alex K.	45
Peebles J. S.	10
Robert	400
" Trust	5740
" Extr	200
Putnam B.	634
Perduaris W.	475
Russell Jno	600
Richey A. J.	80
White J. H.	90

MEMORANDA

16th Oct 136035 75
18th Oct 26240. 79

Mrs Cordelia Barker
1607 Michigan Ave

Fett Lewis C Gatz

Mrs S Miller
Pen Ave & Rebecca St
Pittsburgh

A Richy
Brenton St

W R Condit
130 Dearborn St
Chicago

MEMORANDA

\$25 each 4 coupons } \$100⁰⁰
Mr. Auburn Cable Railway Co.
\$50 June 1890 } Estate
\$50 Dec 1889 }

9 coupons \$35⁰⁰ each
A.C.R.

MEMORANDA

100
20

1. [Faint handwritten notes, possibly a list or journal entries, covering the majority of the page. The text is mostly illegible due to fading and bleed-through.]

1898 CASH ACCOUNT. JANUARY.

Date.		Received.	Paid.	Date.
Jan 1		70 00 ✓		
" "	X. M. J. Co		4 00 ✓	
" "	Ston		21 63 ✓	
" "	X. M. J. Co Ston	9 25 ✓	14 01 ✓	
" "	Ston Mrs M	50 ✓		
4	Missionary Soc		25 ✓	
" "	Clifton Forge		50 ✓	
11/10	Winston	9 00 ✓	7 00 ✓	
11	X. M. J. Co	17 50 ✓		
11	S. S. Conjell for picture	2 00 ✓		
"	Ston & M. J. Co			
"	Expense		1 12 ✓	
"	Anglin Carriage Room		2 00 ✓	
18	Drayage		58 ✓	
"	Key to P. O. Box		50 ✓	
14	Deposit Cash into B		300 00 ✓	
"	Drayage P. O. Box N. Y.			
15	S. S. Conjell for picture		44 ✓	
"	Stamps		10 ✓	
"	P. O. Key		50 ✓	
"	Stamped Envelopes		55 ✓	
21	Keys for frame		25 ✓	
23	Drayage		2 00 ✓	
"	Key P.		1 00 ✓	
26	Church		25 ✓	
27	Drayage		50 ✓	
28	Key envelopes 3 pairs		1 65 ✓	

CASH ACCOUNT. JANUARY.

L.	Date.		Received.	Paid.
00	00	Draft on S. A. Law N.Y. for \$300.00		
63				
01		Cash 22.15		
25				
50				
00				
00				
00				
00				
12				
00				
58				
50				
00				
00				
64				
10				
50				
55				
20				
00				
00				
25				
50				
65				

CASH ACCOUNT. FEBRUARY.

CA

Date.		Received.	Paid.	Date.
2	Church		35	15
4	N. I. Co & Mfg Co DK Wisconsin	10 00	10 00	
5	Mother	4 00		
"	Barber		50	
"	Over shoes		50	
11	W. I. Co & Mfg	80		
"	Church		25	
"	Mail		1 00	
24	Wash Nat Bank By Cash	15 00		
24	Church		50	
"	Supper at Hinton		50	
"	Received Expenses sale of goods left with Kaye & Co	2 75		
25	Roses Birthday Present		5 00	

CASH ACCOUNT. FEBRUARY.

l.	Date.	Received.	Paid.
35	15 gp Castles for M.A. / Meins	33 88	
40			
50			
50			
25			
00			
50			
50			
00			
50			
50			
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CASH ACCOUNT. MARCH.

Date.		Received.	Paid.	Date.
2	Church		✓ 25	
3	Law Moor Divid .15600	✓		
9	Church		✓ 25	
10	Postage		✓ 15	
13	Laouton		25	
	Cincinnati lunch		25	
	Shoes		10	
	Book		50	
	Present		18 50	
	Tobacco		10	
	Church		1 15	
	Loaned Beer 2.25			
	Hotel		7 25	
	Bill Hotel 1.75			
27	Daily News		1 00	
	Ky. S. C. Mfg			
	Receipts		1 50	
	Ky. S. C. Mfg Co			
	and Supp		1 65	

20
225
20

CASH ACCOUNT. MARCH. 2.65

Date.	Received.	Paid.
25		
25		
15		
20		
25		
10		
50		
50		
10		
15		
25		
50		
65		

Mary J. Brodgers
 Mar 18th
~~on note~~
 Judgements 20 00
 Acknowledgements 1 00
 John Means 14 59
 P. M. S. Denton 6 70
21 29
 Pallock 12 65
5 24
 due J. M.
 J. M. Cash 20 00
25 24
 Pallock 13 00
12 24
 Telegrams 1 00
11 24
 Amer. Muzik
 McKeath's Bank 25 00

1/4 to 83 - 60 Shares
 A. C. & S. Ry Co
 Collateral
 Mar 2 1890
 M. S. Denton

CASH ACCOUNT. APRIL.

Date.	Description	Received.	Paid.	Date.
2	Overcharges		✓	7
3	Envelopes		✓	5
3	Lecture		✓	5
5	Church		✓	1 00
4	Barber		✓	25
"	Stuy Paper		✓	50
	Mrs J. S. S.	1500.00 ✓		
	Hy. S. Coffey	20.00 ✓		
	Optim Hotel			
9	Hy PE Im Date 70		2 20	
10				
17	Hy. J. Coffey J. C. West Sand		✓ 10 00	
18	Hy. J. Coffey & Co Cash		✓ 25 01	
19	Dequan		✓	50
20	Chamson		✓	25
	Trip to		✓	70
	Medicine		✓	50
30 th	Red Bank		14 00	

CASH ACCOUNT. APRIL.

d.	Date.	Received.	Paid.
7			
5			
5			
6			
25			
5			
	13 th		
	ECM	1500-	
	JM by ECM	3500-	
20			
00			
07	JM	1124	
50	Medicine		90
25	R.A. Mack		320
70		<u>1124</u>	<u>410</u>
50	JM Bal	714	

CASH ACCOUNT. MAY.

Date.		Received.	Paid.	Date.
1	Trip to Richmond			
1	Ky. I. C. & Mfg Co	20 00 ✓		
	" Bank		65 ✓	
3	Ky. I. C. & Mfg Co	10 00 ✓		
	Acknowledged		50 ✓	
5	Bank		50 00 ✓	
6	by Acknowledged		50 ✓	
5	Money safe		5 00	
	Bank		10 00	
29	Ky. I. (3)		50	
	Acknowledged			
31	Cigars		50	
"	Hotel		1 25	

CASH ACCOUNT. MAY.

1.	Date.	Received.	Paid.
65	J. M. -		
50	Henthorne 10/6		
00			
50			
00			
50			
50			
25			

Received 1.00
 11.00
 1.00

CASH ACCOUNT. - JUNE.

Date.		Received.	Paid.	Date.
2	Cigars	✓	25	
3	Telegrams	✓	62	
6	Tennis Club	✓	3 00	
11	Cigars	✓	50	3
11	Telegrams	✓	50	
17	Mr Albertson	✓	1 00	
8	Shoes rep	✓	75	
10	Cigars	✓	1 75	
14	Debit	✓	50	30
16	Barbar	✓	35	
17	My. D.C.	✓		1
	Duff	✓	23 25	
17	Henderson for racket	✓	2 00	
	Ark Imp Co	✓	75 00	
	Expn Memphis	✓	2 00	
	Reposited	✓	525 00	
	Checked		25 00	
	My D.C. Stamps	✓	75	
67	Trip to Cintra			
	Tants Col		4.05	
	" " Coat		4.90	
	Breakfast		1.75	
	Cigars		1.00	
	Supper		1.00	
			<u>11.55</u>	

CASH ACCOUNT. JUNE.

Date.		Received.	Paid.
25	Blunts	✓ 1	660
62	Scrip	✓	3600
00	Check on Bank	✓ 500	
50	3 Bow tie	✓	425
50	Trousers	✓	75
00	Trip to Austin		
75	Car Tickets	✓	100
75	30 Church		25
50	2000	500	
35	Check		
1	100	✓	300
	Cigars	✓	200
	Telegrams	✓	140

CASH ACCOUNT. JULY.

Date.		Received.	Paid.	Date.
4	Bank		✓ 2 00	
5	Check Bank	25 00 ✓		
	Ky. I. C. & Mfg	39 51 ✓		
7	Bank		40 00	
8	Ice cream		50	
9	Kex & net		5 50	
	Ky I. C. & Mfg Co	15 ✓		
	Mortality			
12	Supper		50	
"	Dinner		1 00	
"	Cigars		60	
15	Clothing		1 00	
	Cigars		50	
"	Daily News		50	
20	Church		25	
21	Barbar		2 25	
22	Trip Cinti		1 35	
25	U. M. C. A		5 00	
26	Mrs W. B. Beaton	25 00 ✓		
26	Ky I. C.			
	Actual Ice	50 ✓		
	Watte	50 ✓	1 00	
	Laundry		50	

CASH ACCOUNT. JULY.

Date.		Received.		Paid.
11	100			
100				
50				
50				
50				
50				
50				
75				
75				
35				
100				
100				
100				
100				

1909

1910

atm 65

Curry B

CASH ACCOUNT.

AUGUST.

Bm

C

Date.		Received.	Paid.	Date.
4	Ky. J. C. Rent Bicycle	1000		
	Thin		200	
7	Stamp		50	
7	E. Deaton check		12500	
	Ash. & Co.	5000	25000	
8	Roamed Thin		200	
9	Daily News		30	30
"	Leup Co. ⁷⁵⁰⁺²⁵⁷ 750	750		
12	Low floor Trip		32	
13	Stamp Enclaves		255	
12	Ky. J. C. Car	1500		
14	Livery		220	
	Brook Estate $\frac{1}{2}$		400	
18	Cigars		10	
	Breakfast 3		250	
	Dinner 4		390	
	Tee		20	
	Cigar		20	
	Break		200	
	Dinner		290	
	Hotel 835		800	
			1980	

32.80 20.70 1
 12.40

CASH ACCOUNT. AUGUST.

id.	Date.	Received.	Paid.
	Moses		1 50
	Paper		10
	Books		2 95
	Cigars		50
	Umbrella		<u>3 00</u>
50	Seaton	14 95	<u>7 85</u>
	fare 5.55	12 40	
500	Hotel 8.35	7 35	
	Telegr 1.05		
	Hy I R Co Store		30
30	" " w/ sports	6 30 ✓	
3 20	Cigars	✓	50

CASH ACCOUNT. SEPTEMBER.

CA

Date.		Received.	Paid.
1	Stamps	✓	50
1	Pair from Camp	✓	20
2	Telegrams	✓	1 25
3	Ky J.L. Buckle	✓ 10 00	
	Signal	✓	12 50
6	Ice Co	✓ 6 00	4
8	Present H.M.	✓	50
10	Stamps	✓	1 00
	Laundry	✓	7 50
15	Fare to transport	✓	4 55
	Dinner	✓	50
	Fare & car	✓	4 56
16	Hotel Lexington	✓	1 50
	Cigars	✓	25
17	Shoes Repair	✓	25
18	Photographs	✓	1 04
23	Cigars	✓	35
	Coffee	✓	25
	Water Crystal	✓	25
	Barber	✓	2 50
30th	Sept Church	✓	50
1st	Oct Cigars	✓	20
2nd	" " " "	✓	40
	Honorary Cigars	✓	50

CASH ACCOUNT. SEPTEMBER.

Date.	Received.	Received.	Paid.	Paid.
50				
20				
15				
25				
50				
60				
75				
55				
50				
56				
50				
25				
25				
04				
35				
25				
25				
50				
50				
20				
40				
50				

CASH ACCOUNT. OCTOBER.

Date.		Received.	Paid.	Date.
				11
Oct	Car tickets 2		1 00	
	Ly. G. Car			
2	Circus	70 00		12
4	Rauchole Ry	7 00		
6	Buster R	5 00		17
7	Expenses		1 00	
	Thumb to back		10	19
	Stamps		15	20
	Cigars		2 50	
<hr/>				
7	R. R. A. P. tickets 14 seats		28 00	
	Supper		2 00	22
8	Breakfast		2 00	
8	Dinner		2 00	
9	Porter		50	
	Cab		75	
10	Telegram		20	2
	Barber		20	
	Trousers		8 00	20
	Street cars		20	20
	Theater		2 00	3
	Bottle 50.95		10	
	Hat		3 50	
	Notes		14 80	
	Bus		2 00	
	Porter 9 00		55	

CASH ACCOUNT. OCTOBER.

aid.	Date.	Received.	Paid.
	11	Buss,	150
ur		Lieber	1025
		Hotel	75
	12	Barber	25
	17	Y. S. Thiel ✓	300
		Asst. Secy for	
		Deed ✓	175
00	19	Church	25
10	20	Ill. Dist. Court ✓	100
15			
200	21	Note. W. B. Houston	18400
		payable 1st Nov 1891 -	
		at Wash. Nat. Bank	
500	22	Daily News ✓	80
700		Tobacco ✓	50
200		Dance ✓	500
400		Jewels Rev. ✓	10
50		Express amt ✓	35
75	25	Rig ✓	200
20		Present Recd ✓	540
800	26	Lecture Course ✓	150
20	29	N.Y. P. C. Magatt ✓ 150	
200	30	Shoes ✓	500
10			
350			
80			
25			
55			

CASH ACCOUNT. NOVEMBER.

Date.	Received.	Paid.	Date.
3	Ky. J. C. Wyatt	200 ✓	
4	Ex N. U. Tell	✓	25
4	Ky. J. C. Keeble	525 ✓	
4	Ch	50 00	
	Tobacco		10
7	reporner	✓	200
8	Frontier	✓	25
	Laundry	✓	35
	Bonchi Tomon	✓	200
	AMato	✓	50
	sewing \$15 00		
	Church	✓	25
24	Frontier partnership	✓	75
	Ch W. H. 50%	✓	500
27	Barber	✓	200
27	Frontier trip	✓	75
29	Robert Ky J. C.	900 ✓	
Dec 1	Robt Wyatt	400 ✓	
2	Telegram	✓	40
4	Ky. Lucy Hakes	400 ✓	
7	Rose Ann's time	✓	500
9	Donation Knights Templar	✓	100
	Ky. Jno Russell	✓	2000
	Good Templar	✓	100
5	Eda Surp Co	2500	

48.85

CASH ACCOUNT. NOVEMBER.

aid.	Date.	Received.	Received.	Paid.
25				
10				
200				
25				
35				
100				
50				
25				
75				
200				
75				
40				
500				
100				
000				
100				

CASH ACCOUNT. DECEMBER.

Date.	Received.	Received.	Paid.	Date
10	Patrol	-	1 75	12/14
11	Mother Present	-	2 00	24
11	Shoes	-	3 50	Ja
	Pres 4/14	-	6 00	37
13	H Means	3 00 00		
	not today			
16 th	Laundry	-	85	
	mother	-	2 00	
16	Daily News 5/12	-	60	
17	Law Mover	1 04		
	Room Mt Taxes		42 50	
9	Bucple	10 00		
	gunny knives		1 75	
	Room Mt for			
	wetting		3 25	

1.20
1.50
2.25
75

CASH ACCOUNT. 10 DECEMBER.

id.	Date	Description	Received.	Paid.
	12	Info Cent		70
75	14	Early News		70
1.00	24	Old Quarterly		1.00
3.50	Jan			
1.00	31	My Savings Bank		15.00

85
2.00
60
2.50
75
3.25

SUMMARY OF CASH ACCOUNT.

	Received.	Paid.	Date.
	16 Aug		
JAN. Atton Terreffaute			
Preferred	1 25		7/19
FEB.			
MAR Chicago & Alton	1 28		
Commission 8%			
APR. Preferred 8%		Buy	
M.P.S.D. Del & Hudson	1 62 1/2	Buy	
MAY 7 5000 at 150			
JUN. Del. Lack & W	1 45 5/8		
J.A.T.O.			
JUL. 7			
M.P.S Fort Wayne + Jackson	7 54		
AUG. 5 1/2	Remained	Buy	
SEP. M.P.S 2lls. Central	1 11		
OCT. 5 1/2			
NOV.			
M.P.A DEC. Lake Shore	1 08		
4			
J.J Mil. Ld. & M.P. 108 1/2			
7		Buy	

BILLS PAYABLE. MARCH.

d.	Date.	NAME.	Dolls.	Cts.
	149	Chicago & North Western 6 ¹¹ N ¹⁰ ③	110	1/2
	150	New York Central 4	106	3/4
	151	Pittsburgh 7	155	
RECEIVABLE.				
	150	St Paul Rapid 4 1/2	118	1/2
	151	NSRP. Min & Man 6 G.H. Perry	109	1/2
	152	New York & Harlem		
	153	Bills St Mary's 7	154	

BILLS PAYABLE. APRIL.

Date.	NAME.	Dolls.	Cts.	Date.
	60 gals per min foot pump -			
	5" suction			
	4" discharge			
	\$310 ⁰⁰ / ₁₀₀			

RECEIVABLE.

BILLS PAYABLE. JUNE.

Date.	NAME.	Dolls.	Cts.	Date.
RECEIVABLE.				
	13th Aug 1887			
	Louis Pearson			
	\$448.20			
	Paid	61.05		
		81.20		
		120.00		
		3.30		
		\$265.55		
	6th June 1887			
	\$800			

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BILLS PAYABLE. OCTOBER.

Date.	NAME.	Dolls.	Cts.	Date.
7	Mr. M. B. Sutton.			

RECEIVABLE.

BILLS PAYABLE. 1901 NOVEMBER.

Cts.	Date.	NAME.	Dolls.	Cts.
RECEIVABLE.				

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MEMORANDA.

Date.

Plum
Grap

Dolls. Cts.

2 24
191

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NA
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CR
NA
ST
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CR

ADDRESSES.

Cts.

74
91

NAME. J. W. Hopkins Fuel Agent Co
STREET, No. Richmond - Va
CITY.

NAME. F. R. Hutton. Sec Am Ass Mech
STREET, No. Engineer # 280 Broadway
CITY. New York City

NAME. J. C. Smith } Union Oil Co
STREET, No. 282 Greenwich St } New Orleans
CITY. Providence R. I.

NAME. Frank Lyman
STREET, No. 130 Water St Cor Pine
CITY. New York

NAME. Weimer Machine Works
STREET, No. Lebanon Penn
CITY.

NAME. William Renton Machinist
STREET, No. 67 Water St
CITY. Pittsburgh, Pa

NAME. Pickering Spring Co Limited
STREET, No. Philadelphia Pa
CITY.

NAME. Cambria Iron Co
STREET, No. Lock Box - Philadelphia Pa
CITY.

NAME. Manning & Squier
STREET, No. 111 Liberty St 2nd Floor
CITY. New York City

NAME. P. B. Warner
STREET, No. 18 Johnston Building
CITY. Cincinnati O.

ADDRESSES.

NAME. Matthierson & Hegler
 STREET, No. Zinc Co. LaSalle, Ill-
 CITY.

NAME. J. D. Kauffelt. Gen Mary
 STREET, No. Princess Ice
 CITY. Glen Milton Va

NAME. E. R. Grant Brokers
 STREET, No. 57 Broadway
 CITY. New York City

NAME. Sagenos Iron Roofing & Corrugate
 STREET, No. 15 Public Landing
 CITY. Cincinnati O

NAME. Delta Upsilon Club House
 STREET, No. 8 East 47 St-
 CITY. New York City

NAME. The Egan Co
 STREET, No. 234 N. Front St
 CITY. Cincinnati

NAME. C. W. Alburts Com Agent
 STREET, No. 35 Liberty St
 CITY. New York

NAME. Chas M. Shields M. D.
 STREET, No. Cor 5 and Franklin St
 CITY. Richmond Va.

NAME. The W. Va Fire Brick Co
 STREET, No. New Cumberland
 CITY. W. Va

NAME. Union Mining Co
 STREET, No. Mt. Savage
 CITY. Maryland

ADDRESSES.

NAME. *Theron H. Hawkes Jr*
 STREET, No. *Cr Marvin & Hawkes or 1212 E 2nd*
 CITY. *Duluth Minnesota*

NAME. *David Harvard* *Machinist*
 STREET, No. *Lamberts Machine Shop*
 CITY. *Ironton Ohio*

NAME. *Miss Georgie L. Milley*
 STREET, No. *13 Mullenburgh*
 CITY. *Woodstock Va*

NAME. *George Spaulding M. D.*
 STREET, No. *248 Lenox Ave*
 CITY. *New York*

NAME. *Eduard Palmner*
 STREET, No. *216 Franklin*
 CITY. *Richmond*

NAME. *Conrad Gensler, Ice Keeper*
 STREET, No. *Ashland*
 CITY. *Ky*

NAME. *Miss Edna Shires*
 STREET, No. *Ottawa*
 CITY. *Kans*

NAME. *Chas Shires*
 STREET, No. *Bell Telephone Co*
 CITY. *Cincinnati O.*

NAME. *Oxford Ochre Co*
 STREET, No. *Sands*
 CITY. *Page Co. Virginia*

NAME. *Miss H. L. Held*
 STREET, No. *180 Morgan St*
 CITY. *Buffalo, N.Y.*

ADDRESSES.

NAME. D. J. Peters Esq
 STREET, No.
 CITY. Mt Sterling Ky

NAME. S. F. Hunt
 STREET, No. N. E. Cor Fifth & Main
 CITY. Cincinnati

NAME. Jos C Butler
 STREET, No. 55 Cor 5 & Main
 CITY. Thomas Building

NAME. J H Rogers
 STREET, No. 64 W. Third
 CITY. Cincinnati

NAME. Richmond Ice Machine Co
 STREET, No. 1105 Main St
 CITY. Richmond, Va

NAME. A. C. Compton & Co
 STREET, No. 3rd St
 CITY. Cincinnati

NAME.
 STREET, No. Arlington Hotel
 CITY. Cobourg Ont Can

NAME. Miss Anna Crockett
 STREET, No. 78 W. Short St
 CITY. Lexington

NAME. Staunton Building Co
 STREET, No. Staunton Va
 CITY. Portable Houses

NAME.
 STREET, No. Arlington Hotel
 CITY. Waverly Mass

ADDRESSES.

NAME.

E. A. Sayre

STREET, No.

Lebanon

CITY.

or Norwich Conn

NAME.

Vanita medicated

STREET, No.

Tar shampoo -

CITY.

1408 Chestnut Philadelphia

NAME.

S. H. Putnam Jr

STREET, No.

807 Washington St

CITY.

Chicago, Ills

NAME.

Frank R. Leroy

STREET, No.

CITY.

NAME.

Ona Wilmon

STREET, No.

Nicholasville

CITY.

Ky

NAME.

STREET, No.

CITY.

NAME.

STREET, No.

CITY.

NAME.

STREET, No.

CITY.

NAME.

STREET, No.

CITY.

NAME.

STREET, No.

CITY.

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ADDRESSES.

NAME. Miss Nellie Hedley
 STREET, No. Morristown
 CITY. 15 Maple Ave N J

NAME. W. W. Harris & Co
 STREET, No.
 CITY. Chicago Ill

NAME. S. M. Mitchell
 STREET, No. 1526 Walnut
 CITY. Phila.

NAME. J. K. Mitchell
 STREET, No. 211 So 17th St
 CITY. Phila.

NAME. Dr. D. E. Schweinitz
 STREET, No. 1401 Locust St
 CITY.

NAME. Miss Thorne KR.
 STREET, No. 1711 Summer St
 CITY. Phila

NAME.
 STREET, No.
 CITY.

NAME.
 STREET, No.
 CITY.

NAME.
 STREET, No.
 CITY.

NAME.
 STREET, No.
 CITY.

20th July 1880

Key

up

SV

24th April 1887 7.00

H. C. Burn
J. R. Anderson

Mr Means note

dated 25th Aug

1887 @ 1 day 57 30.61

57 30.61

450
11250
900

101250

Our Budget

Some weeks ago, a young gentleman, with a tall silk hat and a fur-lined overcoat, came here to organize a show with home talent, but he failed to perfect his arrangements, and so, when he left town, had to leave his trunk behind for his board, which was \$4.50. Hearing that Mr. Royce, the gentleman who handsomely played the numerous characters at the Masonic, last Wednesday night, was in this region, the unsuccessful showman wrote to Royce for the loan of \$4.50 to lift his trunk, or to get it for him when he came here. Now, Royce was not acquainted with the man, but knowing the ups and downs of professional showmen, and having had such experiences himself, sent the \$4.50 as requested. He didn't inquire whether the man was worthy or not—his only question was, did he need it? Mr. Royce says he has comprehended several times and he knows how it feels; and so, the hearing of another showman getting in that fix arouses his sympathy, and he feels he must rush to the rescue.

* * *

A newspaper man has a great time answering questions. Last week, we had a hard tussle finding numerous statistical answers for a subscriber, and now we get a circular with 90 questions to be answered yes or no. The questions relate to reforms and purposes of society and government, and cover the subjects of temperance, divorce, copyright, education, voting, control of children, limiting newspaper reports of scandals, &c. It is the most wonderful collection of questions we have yet seen. Of course, they are getting answers to them all over the country, and when the answers are tabulated they will be very interesting.

* * *

The "Night in Jersey" troupe broke up here, leaving the actors strapped and

Loose Item

AN ILL WIND &c.

Feb. 1892

"It's an ill wind that blows nobody good" is an old adage. We can apply that to a famous case at home. The failure of the Etna Iron Works, years ago, was a terrible event to Ironton. It brought financial distress to many doors. It was a public calamity which the community yet feels.

But it has its compensations. In the efforts to bring the company's matters to a financial footing again, bonds were offered to some Philadelphia bankers. In process of time, there appeared here a representative of those banks, to inspect the Etna property. He went over and under the Etna lands, and viewed the surrounding landscape and the outlying resources. That keen, observing man was favorably impressed by this region. His visit had its fruits.

Some time afterward, that gentleman turned up as President of an old and new system of railroads in Virginia, with new lines branching in several directions. One of the new branches ran through West Virginia to the Ohio river and terminated at Ironton.

That representative who visited the Etna property and that President of the new railroad system were the same person, Mr. Kimball, the active, bright, whole-souled President of the N. & W. His visit to Ironton convinced him that here should be the north terminus of the N. & W. system. For six years, Ironton has enjoyed this distinction on the maps; she is now about to enjoy it in reality. And this comes from the mishap of Etna, and Mr. Kimball's visit to Ironton.

Another word. Mr. Kimball is a quiet, thoughtful man, not given to plumage and display, but one of his railroad characteristics it may be interesting to remark—he is a friend to every city and town on his line, and he seeks to build up his railroads by upholding and encouraging the interests of every community through which his road runs.

Loose Item

