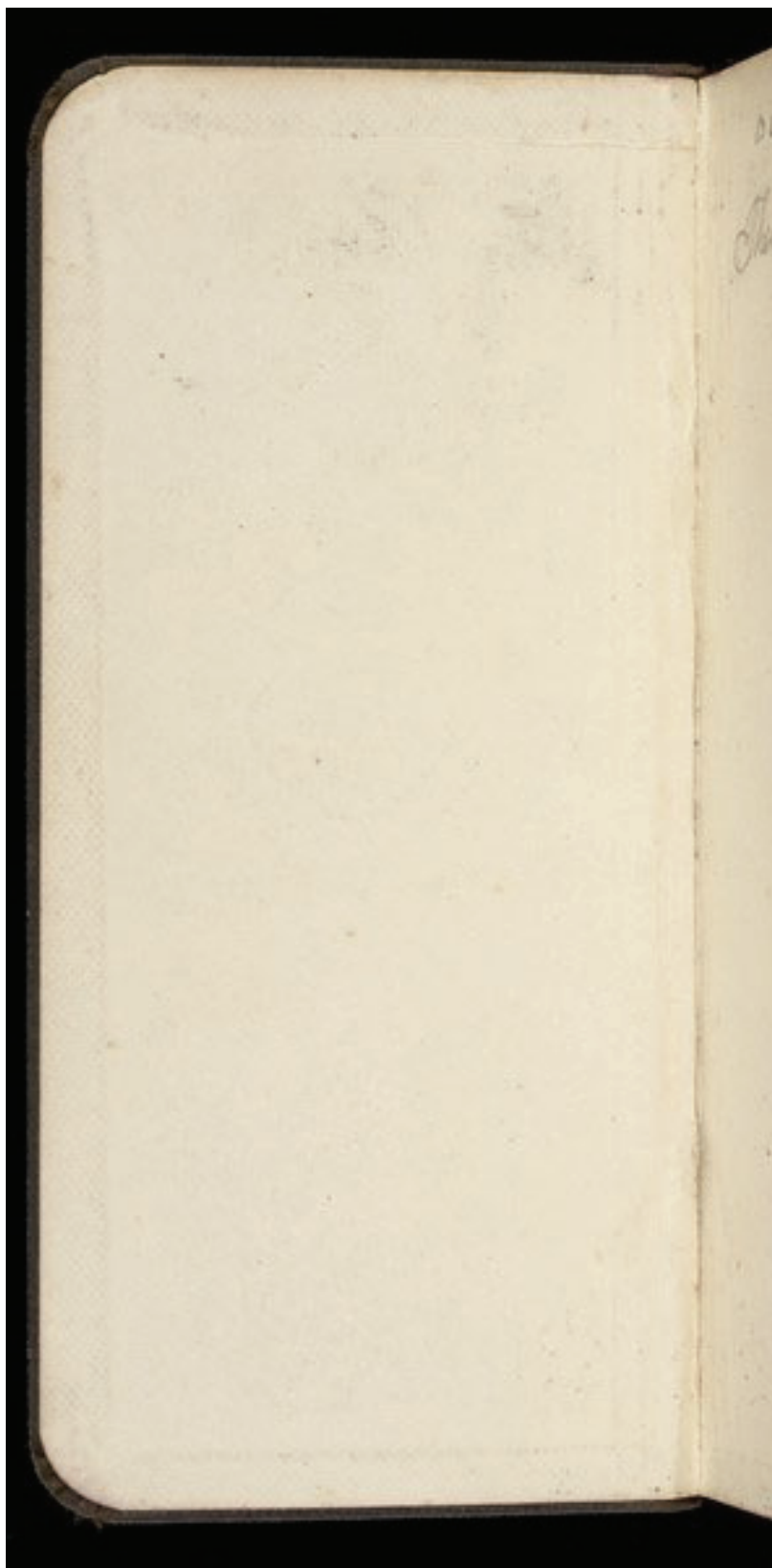
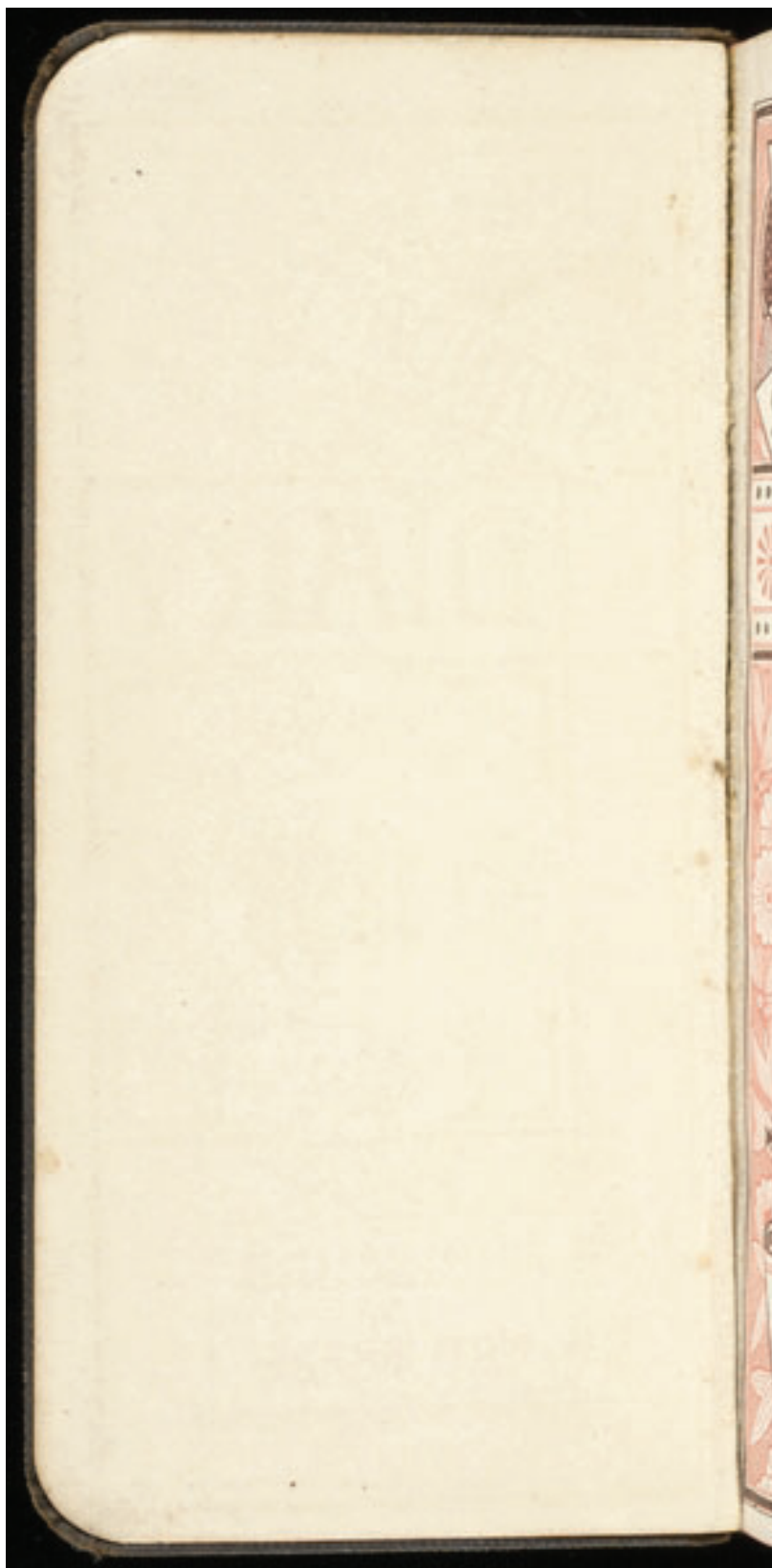


STANDARD
No 526
DIARY.



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Theo. Brown

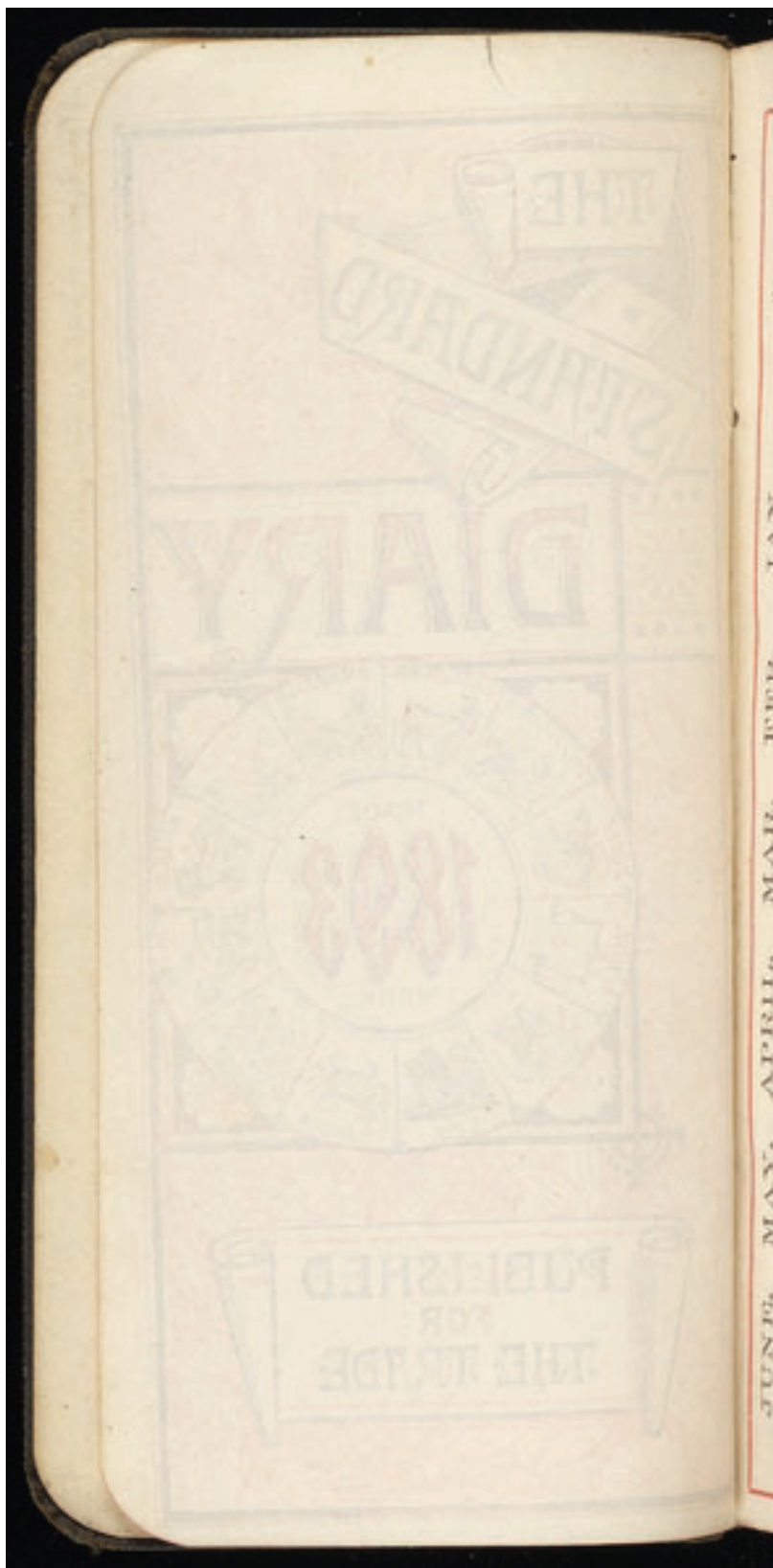


THE
STANDARD

DIARY



PUBLISHED
FOR
THE TRADE



THE STANDARD

DIARY



PUBLISHED FOR THE TRADE

JAN FEBR. MARCH APRIL MAY JUNE

CALENDAR.

1893.

	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	31	..	..	..	..
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	31	..	..
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	..	..	..	..	..	..

WEIGHTS AND MEASURES.

MEASURE OF LENGTH.

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

MEASURE OF SURFACE.

144 Square Inches make 1 Square Foot.	9 Square Feet " 1 Square Yard.
30½ 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.	Gunter's Chain equal to 22 Yards or 100 Links.
272½ Square Feet make 1 Square Rod.	43,560 Square Feet " 1 Acre.

MEASURE OF SOLIDITY.

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

AVOIRDUPOIS WEIGHT.

27½ Grains make 1 Drachm (dr.) or 27½ 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 1-5ths Grains Troy.)
--	--

LIQUID MEASURE.

4 Gills make 1 Pint.	3½ Gallons make 1 Barrel.
2 Pints " 1 Quart.	5½ 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.	

SURES.

TH.

make 1 Yard
" 1 Rod
" 1 Fathom
" 1 Mile
es make 1 Degre.

ACE.

e Foot.
e Yard.
Perch or Pole
e Rod.
e Acre.
e Acre.
e Mile.
or 100 Link
Rod.

ITY.

ble Fort.
ble Yard.

HT.

e 27 1/2 Gal.
e 43 1/2
e 7000

st (cont.)

er 24 Gal.

er 450

er 5760

IGHT.

ons make 1
es " 1/2

IT.

rain Troy
Grains Troy

E.

Down make 1
Down " 1/2
Down " 1/4

els make 1
els " 1/2
ble inches

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.

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	..	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	..	55	..	..	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	..	60	45	..	..
Kentucky	48 52	..	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	..	60	..	..	..
Minnesota	48 42	..	56	..	..	32 60	56 60	..	..	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	50	55	60	..	45	..	..	..
Nebraska	48 52	..	56	50	57	34 60	56 60	50	55	60	60	45	..	..	..
California	50 40	..	52	..	..	32	..	54 60	..	..	..	..	..	..	..
Oregon	46 42	..	56	..	..	36 60	56 60	..	..	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	0	3	33
5 "	0	0	0	0	0	0	0	0	0	0	5	55
10 "	0	0	0	0	0	0	0	0	0	0	11	111
1 Mo.	0	0	1	1	1	2	2	3	3	3	33	333
2 "	0	1	2	2	3	4	4	5	6	6	67	667
3 "	1	2	3	4	5	6	7	8	9	10	100	1000
4 "	1	2	3	4	5	6	8	10	12	13	133	1333
5 "	1	3	5	6	8	10	11	13	15	16	167	1667
6 "	2	4	6	8	10	12	14	16	18	20	200	2000
7 "	2	4	7	9	11	13	15	18	21	23	233	2333
8 "	2	5	8	10	13	16	18	21	24	26	267	2667
9 "	3	6	9	12	15	18	21	24	27	30	300	3000
10 "	3	6	10	13	16	20	23	26	30	33	333	3333
11 "	3	7	11	14	18	22	25	29	33	36	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	0	1	1	1	1	1	1	14	139
1 Mo.	0	1	1	2	2	3	3	4	4	4	42	417
2 "	1	2	3	4	5	6	7	8	8	8	83	833
3 "	1	2	4	5	6	8	9	10	11	13	125	1250
4 "	1	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 "	2	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 "	3	7	11	15	19	23	26	30	34	38	375	3750
10 "	4	8	13	17	21	25	29	33	38	42	417	4167
11 "	4	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	0	1	1	1	1	8	83
10 "	0	0	1	1	1	1	1	1	2	2	17	167
1 Mo.	0	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 "	1	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 "	2	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 "	3	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 "	4	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 "	5	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

TABLE

RATE OF INCOME ON STOCKS.

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

Paid.	3%	4%	5%	6%	7%	8%	9%
\$50	6 00	8 00	10 00	12 00	14 00	16 00	18 00
55	5 45	7 27	9 09	10 90	12 72	14 55	16 36
60	5 00	6 67	8 33	10 00	11 66	13 33	15 00
65	4 62	6 15	7 69	9 23	10 76	12 30	13 85
70	4 28	5 71	7 14	8 57	10 00	11 42	12 85
75	4 00	5 33	6 66	8 00	9 33	10 66	12 00
80	3 75	5 00	6 25	7 50	8 75	10 00	11 25
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 25	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 99	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 unavailable 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, mailed, 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 the 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

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, Locomark, Switzerland, Italy, Russia, Norway, Sweden, Turkey (European and Asiatic), Egypt, letters 5 cents, newspapers 1 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.

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.

Accidents

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, ACETIC, SULPHURIC (Oil of Vitriol), NITRIC (Aqua Fortis). } Soap-suds, Magnesia, Lime-water.

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

Carbolic Acid. Flour and water, mucilaginous drinks.

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

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

Bug Poison.
Lead.
Saltpetre.
Corrosive Sublimate.
Sugar of Lead.
Blue Vitriol. } Whites of Eggs or Milk in large doses.

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

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

Iodine.
Antimony.
Tartar Emetic. } Starch and water. Astringent infusions. Strong tea.

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

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

Opium.
Morphine.
Laudanum.
Paregoric.
Soothing Powders
or Syrups. } Strong coffee, hot bath. Keep awake and moving at any cost.

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

if any. 2. ...
stomach and ...
down. Just ...
using hand ...
imitate water ...
expanding ...
alternately ...
above the ...
it be done ...
frictions to ...
using the ...
so as to draw ...
tried. Take ...
the mouth ...
and report ...
ople have ...
et 8. When ...
ed, give ...
nd quiet.

with Coccy ...
gs and Olive ...
Chalk or ...
over a pers ...

Get patient ...

The cord ...
anterior ...
adjoining ...

gs, &c. ...
ins.

ck; allow ...

error to ...
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POPULATION OF PRINCIPAL CITIES.

	1890.	1880.
Albany, N. Y.	94,923	90,758
Allegheny, Pa.	105,287	78,682
Atlanta, Ga.	65,533	37,409
Baltimore, Md.	434,439	332,313
Boston, Mass.	448,477	362,839
Brooklyn, N. Y.	806,343	566,663
Buffalo, N. Y.	255,664	155,134
Cambridge, Mass.	70,028	52,669
Camden, N. J.	58,313	41,659
Charleston, S. C.	54,955	49,984
Chicago, Ill.	1,099,850	503,185
Cincinnati, O.	296,908	255,139
Cleveland, O.	261,353	160,146
Columbus, O.	88,150	51,647
Dayton, O.	61,220	38,678
Denver, Col.	106,713	35,629
Des Moines, Ia.	50,093	22,408
Detroit, Mich.	205,876	116,340
Evansville, Ind.	50,756	29,280
Fall River, Mass.	74,398	48,961
Grand Rapids, Mich.	60,278	32,016
Hartford, Conn.	53,230	42,015
Indianapolis, Ind.	105,436	75,056
Jersey City, N. J.	163,003	120,722
Kansas City, Mo.	132,716	55,785
Lincoln, Neb.	55,154	13,003
Louisville, Ky.	161,129	123,758
Lowell, Mass.	77,696	59,475
Lynn, Mass.	55,727	38,274
Memphis, Tenn.	64,495	33,592
Milwaukee, Wis.	204,468	115,587
Minneapolis, Minn.	164,738	46,887
Nashville, Tenn.	76,168	43,350
Newark, N. J.	181,830	136,508
New Haven, Conn.	81,298	62,882
New Orleans, La.	242,039	216,090
New York, N. Y.	1,515,301	1,206,299
Omaha, Neb.	140,452	30,518
Paterson, N. J.	78,347	51,031
Philadelphia, Pa.	1,046,964	847,170
Pittsburgh, Pa.	238,617	156,389
Providence, R. I.	132,146	104,857
Reading, Pa.	58,661	43,278
Richmond, Va.	81,388	63,600
Rochester, N. Y.	133,896	89,366
Saint Joseph, Mo.	52,324	32,431
Saint Louis, Mo.	451,770	350,518
Saint Paul, Minn.	133,156	41,473
San Francisco, Cal.	298,997	233,959
Scranton, Pa.	75,215	45,850
Syracuse, N. Y.	88,143	51,792
Toledo, O.	81,434	50,137
Trenton, N. J.	57,458	29,910
Troy, N. Y.	60,956	56,747
Washington, D. C.	230,392	177,624
Wilmington, Del.	61,431	42,478
Worcester, Mass.	84,655	58,291

RELATIVE RANK OF CITIES.

In 1870 there were but fourteen cities each containing more than 100,000 inhabitants. In 1880 this number had increased to twenty, and in 1890 to twenty-eight.

In 1880 there was but one city, New York, which had a population in excess of a million. In 1890 there were three, New York, Chicago, and Philadelphia.

The number and relative rank of cities having a population of 100,000 or more at the date of each of these censuses are set forth in the following table.

	RANK.		
	1890.	1880.	1870.
New York, N. Y.	1	1	1
Chicago, Ill.	2	4	5
Philadelphia, Pa.	3	2	2
Brooklyn, N. Y.	4	3	3
Saint Louis, Mo.	5	6	4
Boston, Mass.	6	5	7
Baltimore, Md.	7	7	6
San Francisco, Cal.	8	9	10
Cincinnati, O.	9	8	8
Cleveland, O.	10	11	..
Buffalo, N. Y.	11	13	11
New Orleans, La.	12	10	9
Pittsburgh, Pa.	13	12	..
Washington, D. C.	14	14	12
Detroit, Mich.	15	18	..
Milwaukee, Wis.	16	19	..
Newark, N. J.	17	15	13
Minneapolis, Minn.	18	..	..
Jersey City, N. J.	19	17	..
Louisville, Ky.	20	16	14
Omaha, Neb.	21	..	..
Rochester, N. Y.	22	..	..
Saint Paul, Minn.	23	..	..
Kansas City, Mo.	24	..	..
Providence, R. I.	25	20	..
Denver, Col.	26
Indianapolis, Ind.	27
Allegheny City, Pa.	28

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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, 1890, in compliance with the above stated provisions of law.

RANK 0. 1880	COUNTRY.	MONETARY UNIT.	STANDARD.	VALUE.		
				D.	C. M.	
1	Argentine Repub.	Peso	Gold & silv.	0	96 5	
2	Austria	Florin	Silver	0	34 3	
3	Belgium	Franc	Gold & silv.	0	19 3	
4	Bolivia	Boliviano	Silver	0	60 8	
5	Brazil	Milreis of 1000 reis.	Gold	0	54 6	
6	British America	Dollar	Gold	1	0 0	
7	Cent'l Am. States	Peso	Silver	0	60 8	
8	Chili	Peso	Gold & silv.	0	91 2	
9	China	Tael.. { Shanghai..	Silver	1	3 1	
10				{ Haikwan..	1	14 8
11				{ (Customs).		
12	Cuba	Peso	Gold & silv.	0	92 6	
13	Denmark	Crown	Gold	0	26 8	
14	Ecuador	Sacre	Silver	0	60 8	
15	Egypt	Pound (100 piastres)	Gold	4	94 3	
16	France	Franc	Gold & silv.	0	19 3	
17	German Empire.	Mark	Gold	0	23 8	
18	Great Britain....	Pound sterling....	Gold	4	80 6½	
19	Greece	Drachma	Gold & silv.	0	19 3	
20	Hayti	Gourde	Gold & silv.	0	96 3	
21	India	Rupree of 16 annas.	Silver	0	33 2	
22	Italy	Lira	Gold & silv.	0	19 3	
23	Japan	Yen	Gold	0	99 7	
24	Japan	Yen	Silver	0	75 2	
25	Liberia	Dollar	Gold	1	0 0	
26	Mexico	Dollar	Silver	0	75 8	
27	Netherlands	Florin	Gold & silv.	0	40 2	
28	Norway	Crown	Gold	0	26 8	
29	Peru	Sol	Silver	0	60 8	
30	Portugal	Milreis of 1000 reis.	Gold	1	8 0	
31	Russia	Roubl. of 100 cop'ks	Silver	0	55 8	
32	Spain	Peseta of 100centim.	Gold & silv.	0	19 3	
33	Sweden	Crown	Gold	0	26 8	
34	Switzerland	Franc	Gold & silv.	0	19 3	
35	Tripoli	Mahbub of 20piast's	Silver	0	62 9	
36	Turkey	Piastre	Gold	0	4 4	
37	U. S. of Colombia	Peso	Silver	0	60 8	
38	Venezuela	Bolivar	Silver	0	14 0	

LEGAL HOLIDAYS.

NOTE.—Sunday, July 4 and December 25 are legal holidays in all the States. Other holidays in the different States are noted below:

In most of the States when the holiday falls on Sunday the Monday following is the holiday. Notes must be paid on the Saturday preceding.

ALABAMA—Jan. 1, Feb. 22.

ARIZONA—Jan. 1, Feb. 22, May 30, any day of thanksgiving or general territorial election, or special election called by the Governor.

CALIFORNIA—Jan. 1, Feb. 22, May 30, Sept. 9, Thanksgiving, a State or general election.

COLORADO—Jan. 1, Feb. 22, May 30, Thanksgiving.

CONNECTICUT—Jan. 1, Feb. 22, May 30, Sept. 1, Thanksgiving, Fast day.

DELAWARE—Jan. 1, Feb. 22, Thanksgiving.

FLORIDA—Jan. 1, Feb. 22, any general election day, Thanksgiving.

GEORGIA—Jan. 1, Feb. 22, April 26, any Thanksgiving.

IDAHO—Same as Arizona.

ILLINOIS—Jan. 1, Feb. 22, May 30, Election Day, Thanksgiving.

INDIANA—Jan. 1, public fast, Thanksgiving.

IOWA—Jan. 1, May 30, Thanksgiving.

KANSAS—Jan. 1, May 30, public fast, Thanksgiving.

KENTUCKY—Jan. 1, Feb. 22, public fast, Thanksgiving.

LOUISIANA—Jan. 1 and 8, Feb. 22, Mardi Gras, March 4 in New Orleans, and Good Friday.

MAINE—Jan. 1, Feb. 22, May 30, public fast, Thanksgiving.

MARYLAND—Jan. 1, Good Friday, Feb. 22, Thanksgiving, or general and Congressional election days.

MASSACHUSETTS—Feb. 22, Fast day, May 30, first Monday in Sept., Thanksgiving.

MICHIGAN—Jan. 1, Feb. 22, May 30, and any day appointed by the Governor or President for fasting and thanksgiving.

MINNESOTA—Jan. 1, Feb. 22, Good Friday, Thanksgiving.

MISSISSIPPI—Jan. 1.

MISSOURI—Jan. 1, Feb. 22, any general or State election day, any Thanksgiving day.

MONTANA—Jan. 1, Feb. 22, May 30, public fast, and Thanksgiving.

NEBRASKA—Jan. 1, Feb. 22, April 22, May 30, Sept. 1, public fast and Thanksgiving.

NEVADA—Jan. 1, Feb. 22, and Thanksgiving day.

NEW HAMPSHIRE—Feb. 22, Fast day, May 30, Thanksgiving, or any day on which a general election is held for members of the Legislature.

- NEW JERSEY**—Jan. 1, Feb. 22, May 30, Sept. 1, Thanksgiving day, and any general election day for members of the Assembly. When these fall on Monday notes and drafts are payable on Tuesday; and when they fall on Sunday the Monday following is a legal holiday, and bills become due the Tuesday following.
- NEW MEXICO**—Jan. 1 and all days for fasting or thanksgiving. Notes due on holidays are payable on the next business day thereafter.
- NEW YORK**—Jan. 1, Feb. 22, May 30, the first Monday of Sept. (Labor day), any general election day, every Saturday from noon until midnight, which is designated a half holiday, and any day appointed or recommended by the Governor or President as a day of thanksgiving, or fasting and prayer, or other religious observance.
- NORTH CAROLINA**—Jan. 1, Feb. 22, May 10, May 20, Thanksgiving. When legal holidays are on Sunday the Monday following is a holiday, and notes due on that day are payable on Tuesday. But when the holiday is on Saturday, notes due on Sunday following are payable on Monday.
- NORTH DAKOTA**—Jan. 1, Feb. 22, May 30, Thanksgiving, public fast, and general State or National election.
- OHIO**—Jan. 1, Feb. 22, May 30, Thanksgiving.
- OREGON**—Jan. 1, Feb. 22, May 30, first Saturday in June, public fast, Thanksgiving, and every general election day.
- PENNSYLVANIA**—Jan. 1, Feb. 22, Good Friday, Sept. 1, Thanksgiving, Decoration Day. But if the latter falls on Sunday the Saturday preceding is to be observed as the holiday; and notes falling due on that day or the Sunday must be paid on Friday, or protested on that day.
- RHODE ISLAND**—Feb. 22, May 30, Thanksgiving.
- SOUTH CAROLINA**—Jan. 1, Feb. 22, National Thanksgiving, general election days.
- SOUTH DAKOTA**—See North Dakota.
- TENNESSEE**—Jan. 1, Thanksgiving.
- TEXAS**—Jan. 1, Feb. 22, March 2, April 21, and all days appointed by the President or the Governor as days of fasting or thanksgiving, and every State election day.
- UTAH**—Jan. 1, Feb. 22, May 30, July 24, and Thanksgiving and Fast days.
- VERMONT**—Jan. 1, May 30, Thanksgiving.
- VIRGINIA**—Jan. 1, Feb. 22, Fast day, Thanksgiving.
- WASHINGTON**—Jan. 1, Feb. 22, Decoration Day, Thanksgiving, days of general and special election for State and National officers.
- WEST VIRGINIA**—Jan. 1, Feb. 22, or a day of National thanksgiving.
- WISCONSIN**—Jan. 1, Feb. 22, May 30, June 10, Thanksgiving, general election day.
- WYOMING**—Jan. 1, Feb. 22, May 30, Thanksgiving.

INTEREST LAWS OF ALL THE STATES.

STATES AND TERRITORIES.	PENALTY OF USURY.	PENALTY.	
		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	Forfeiture 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 ct.
Oregon	Forfeiture of prin., int. & costs..	8	10 per ct.
Pennsylvania	Forfeiture of excess, Act of 1838.	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.

PRESIDENTS OF THE UNITED STATES.
 NAME. | BORN. | DEPARTED. | TERM OF OFFICE. | DIST. | NATURE OF PARTY.

PRESIDENTS OF THE UNITED STATES.

No.	NAMES.	Born.	Inaugurated.	Term of Office.	Decl.	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 ".....	June 28, 1836	Virginia.	Virginia.	Republican.
4	JAMES MADISON.....	Mar. 16, 1751	" 4, 1809	8 ".....	July 4, 1831	"	"	"
5	JAMES MONROE.....	April 28, 1758	" 4, 1817	8 ".....	Feb. 23, 1843	Mass.	Mass.	Coalition.
6	JOHN QUINCY ADAMS.	July 11, 1767	" 4, 1825	4 ".....	June 8, 1845	S. Carolina.	Tennessee.	Democrat.
7	ANDREW JACKSON...	Mar. 15, 1767	" 4, 1829	4 ".....	July 24, 1862	New York.	New York.	"
8	MARTIN VAN BUREN.	Dec. 5, 1782	" 4, 1837	4 ".....	April 4, 1841	Ohio.	Ohio.	Whig.
9	Wm. H. HARRISON...	Feb. 9, 1773	" 4, 1841	1 month.....	Jan. 18, 1862	Virginia.	Virginia.	"
10	JOHN TYLER.....	Mar. 29, 1790	April 6, 1841	3 yrs. 11 mos.	June 15, 1849	N. Carolina.	Tennessee.	Democrat.
11	JAMES K. POLK.....	Nov. 2, 1795	Mar. 4, 1845	4 years.....	July 9, 1850	Virginia.	Louisiana.	Whig.
12	ZACHARY TAYLOR....	Sept. 24, 1784	" 4, 1849	1 year 4 mos.	Mar. 7, 1874	New York.	New York.	"
13	MILLARD FILLMORE..	Feb. 7, 1800	July 9, 1850	2 years 8 mos.	Oct. 8, 1869	New York.	N. Hamp.	Democrat.
14	FRANKLIN PIERCE....	Nov. 23, 1804	Mar. 4, 1853	4 years.....	June 1, 1868	N. Hamp.	Penn.	"
15	JAMES BUCHANAN....	April 23, 1791	" 4, 1857	4 ".....	April 15, 1865	Penn.	Illinois.	Republican.
16	ABRAHAM LINCOLN...	Feb. 12, 1809	" 4, 1861	4 yrs. 40 days.	July 31, 1875	Kentucky.	Tennessee.	"
17	ANDREW JOHNSON....	Dec. 29, 1808	April 15, 1865	3 yrs. 10 1/2 mos.	July 23, 1885	N. Carolina.	Tennessee.	"
18	ULYSSES S. GRANT...	April 27, 1822	Mar. 4, 1869	8 years.....	Sept. 19, 1881	Ohio.	Ohio.	"
19	RUTHERF'D. B. HAYES	Oct. 4, 1822	" 5, 1877	4 ".....	Nov. 18, 1886	"	"	"
20	JAMES A. GARFIELD..	Nov. 19, 1831	" 4, 1881	6 1/2 months....	Sept. 19, 1881	Vermont.	New York.	Democrat.
21	CHESTER A. ARTHUR..	Oct. 5, 1830	Sept. 20, 1881	3 yrs. 5 1/2 mos.	Nov. 18, 1886	New Jersey.	"	"
22	GROVER CLEVELAND..	Mar. 18, 1837	Mar. 4, 1885	4 years.....	.....	Ohio.	Indiana.	Republican.
23	BENJAMIN HARRISON..	Aug. 20, 1833	" 4, 1889	.....	.....	Ohio.	.....	.....

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 - 31
Augusta, Me. - 21	Columbus, Ohio - 28
Portland, Me. - 19	Detroit, Mich. - 28
Boston, Mass. - 16	Toledo, Ohio. - 26
Newport, R. I. - 15	Dayton, Ohio - 21
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. - 7
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
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Mountain Standard. 105° Longitude.	Pacific Standard. 120° Longitude.
Denver, Col. 0	Sacramento, Cal. + 6
Salt Lake City, Utah, + 28	San Francisco, Cal. ... + 19

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HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	JANUARY.		FEBRUARY.		MARCH.	
	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.
	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
1	10 11	7 8	11 45	8 41	10 40	7 35
2	11 9	8 3	0 7	9 27	11 20	8 14
3	.....	9 0	0 49	10 7	11 58	8 56
4	0 28	9 51	1 29	10 43	0 15	9 32
5	1 17	10 36	2 7	11 20	0 52	10 8
6	2 3	11 19	2 45	.....	1 28	10 41
7	2 45	.....	3 23	0 22	2 5	11 18
8	3 26	0 24	4 6	1 5	2 44	.....
9	4 9	1 8	4 55	1 54	3 27	0 26
10	4 55	1 54	5 50	2 48	4 17	1 16
11	5 43	2 41	6 50	3 48	5 15	2 14
12	6 34	3 31	7 52	4 48	6 18	3 16
13	7 27	4 24	8 51	5 48	7 24	4 20
14	8 22	5 18	9 46	6 44	8 24	5 20
15	9 16	6 13	10 37	7 31	9 19	6 17
16	10 8	7 5	11 21	8 15	10 10	7 6
17	10 58	7 52	.....	9 0	10 53	7 48
18	11 42	8 38	0 23	9 42	11 34	8 29
19	0 4	9 24	1 4	10 21	.....	9 13
20	0 48	10 6	1 45	11 1	0 36	9 55
21	1 30	10 46	2 28	11 48	1 20	10 39
22	2 13	11 28	3 16	0 14	2 9	11 30
23	2 54	.....	4 12	1 11	3 2	.....
24	3 40	0 39	5 19	2 17	4 3	1 2
25	4 32	1 31	6 31	3 29	5 14	2 12
26	5 32	2 30	7 45	4 42	6 27	3 25
27	6 40	3 37	8 52	5 49	7 36	4 32
28	7 50	4 46	9 49	6 47	8 36	5 34
29	8 59	5 57	9 27	6 25
30	10 2	7 0	10 11	7 8
31	10 58	7 52	10 49	7 44

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HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	APRIL.		MAY.		JUNE.	
	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.
	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
1	11 25	8 19	11 27	8 21	0 2	9 23
2	11 59	8 57	.....	9 2	0 46	10 7
3	0 16	9 33	0 24	9 43	1 32	10 49
4	0 53	10 9	1 6	10 23	2 17	11 36
5	1 32	10 46	1 50	11 7	3 3	0 0
6	2 13	11 30	2 37	11 58	3 50	0 49
7	2 58	.....	3 26	0 24	4 41	1 39
8	3 49	0 48	4 19	1 18	5 34	2 32
9	4 46	1 45	5 16	2 15	6 29	3 27
10	5 48	2 46	6 15	3 13	7 27	4 23
11	6 52	3 49	7 11	4 8	8 25	5 21
12	7 51	4 48	8 5	5 2	9 23	6 21
13	8 45	5 42	8 58	5 55	10 22	7 18
14	9 34	6 33	9 49	6 47	11 20	8 15
15	10 21	7 17	10 40	7 35	.....	9 14
16	11 5	7 59	11 30	8 25	0 45	10 10
17	11 49	8 46	.....	9 23	1 40	11 0
18	0 12	9 36	0 53	10 18	2 31	11 52
19	1 2	10 25	1 51	11 15	3 19	0 17
20	1 58	11 22	2 48	.....	4 8	1 7
21	2 56	.....	3 45	0 44	4 56	1 54
22	3 59	0 58	4 43	1 42	5 46	2 44
23	5 7	2 5	5 40	2 38	6 35	3 32
24	6 11	3 9	6 34	3 31	7 26	4 22
25	7 12	4 9	7 24	4 21	8 15	5 12
26	8 6	5 3	8 10	5 7	9 3	6 1
27	8 53	5 50	8 55	5 52	9 51	6 49
28	9 35	6 33	9 37	6 35	10 40	7 35
29	10 14	7 11	10 19	7 16	11 24	8 18
30	10 51	7 45	11 1	7 54	9 6
31	11 41	8 38

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HIGH TIDE.

(STANDARD TIME.)

JUL
Bost.
Tide.
Morning
0 1
0 45
1 15
2 17
3 15
3 50
4 44
5 34
6 25
7 15
8 05
9 05
10 05
11 05
.....
0 45
1 40
2 35
3 30
4 25
5 20
6 15
7 10
8 05
9 00
10 00
11 00
.....
.....

Day of Mo.	JULY.		AUGUST.		SEPTEMBER.	
	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.	BOST. TIDE.	N. Y. TIDE.
	Morning.	Morning.	Morning.	Morning.	Morning.	Morning.
1	0 29	9 49	1 27	10 42	2 24	11 43
2	1 13	10 29	2 7	11 22	3 12	0 10
3	1 55	11 10	2 48	.....	4 9	1 9
4	2 36	11 54	3 32	0 31	5 19	2 17
5	3 18	0 16	4 26	1 24	6 35	3 33
6	4 4	1 3	5 27	2 25	7 50	4 47
7	4 56	1 54	6 39	3 36	8 55	5 53
8	5 52	2 50	7 53	4 50	9 52	6 50
9	6 54	3 52	9 4	6 2	10 40	7 35
10	8 2	4 59	10 7	7 4	11 20	8 14
11	9 9	6 8	11 1	7 55	11 58	8 55
12	10 14	7 10	11 46	8 43	0 16	9 33
13	11 13	8 8	0 8	9 27	0 53	10 8
14	.....	9 4	0 49	10 6	1 30	10 45
15	0 31	9 54	1 28	10 42	2 10	11 25
16	1 19	10 37	2 7	11 21	2 51	.....
17	2 3	11 19	2 46	.....	3 39	0 38
18	2 45	.....	3 27	0 25	4 33	1 32
19	3 26	0 24	4 13	1 12	5 33	2 31
20	4 10	1 9	5 7	2 5	6 36	3 33
21	4 57	1 55	6 5	3 3	7 38	4 35
22	5 47	2 45	7 8	4 5	8 35	5 32
23	6 42	3 39	8 8	5 5	9 25	6 23
24	7 38	4 35	9 4	6 2	10 10	7 7
25	8 35	5 32	9 55	6 53	10 52	7 46
26	9 29	6 27	10 42	7 37	11 31	8 26
27	10 19	7 16	11 22	8 16	.....	9 9
28	11 6	7 59	.....	8 58	0 32	9 52
29	11 47	8 44	0 19	9 37	1 17	10 37
30	0 8	9 27	0 59	10 16	2 7	11 29
31	0 48	10 6	1 40	10 55	.....	.....

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*.

DECEMBER
 5 30
 6 33
 7 21
 8 9
 8 55
 9 47
 10 26
 11 9
 11 51
 0 13
 0 57
 1 41
 2 24
 3 6
 4 0
 4 57
 5 26
 6 21
 7 20
 8 21
 9 25
 10 21
 11 25
 0 46
 1 46
 2 55
 3 10
 4 1
 4 55
 5 46

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	8.0
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.	"	5	52	6.5
Philadelphia, Penn.	"	5	39	6.0
Annapolis, Md.	sub.	3	19	0.9
Baltimore, 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

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	Jan. 29
Quinquagesima—Shrove Sunday	Feb. 12
Ash Wednesday	Feb. 15
First Sunday in Lent	Feb. 19
St. Patrick	Mar. 17
Palm Sunday	Mar. 26
Good Friday	Mar. 31
Easter Sunday	April 3
Low Sunday	April 9
Rogation Sunday	May 7
Ascension Day—Holy Thursday	May 11
Pentecost—Whit Sunday	May 21
Trinity Sunday	May 28
Corpus Christi	June 1
St. John Baptist	June 24
Michaelmas Day	Sept. 29
St. Andrew	Nov. 30
First Sunday in Advent	Dec. 3
Christmas Day	Dec. 25

THE SEASONS.

	Eastern Standard.	Central Standard.
Vernal Equinox,	Mar. 20, 4h. M.	Mar. 20, 3h. M.
Summer Solstice,	June 21, 0h. M.	June 20, 11h. A.
Autumnal Equinox,	Sept. 22, 2h. A.	Sept. 22, 1h. A.
Winter Solstice,	Dec. 21, 0h. M.	Dec. 21, 8h. M.
	Mountain Standard.	Pacific Standard.
Vernal Equinox,	Mar. 20, 2h. M.	Mar. 20, 1h. M.
Summer Solstice,	June 20, 10h. A.	June 20, 0h. A.
Autumnal Equinox,	Sept. 22, 0h. A.	Sept. 22, 11h. M.
Winter Solstice,	Dec. 21, 7h. M.	Dec. 21, 0h. M.

ECLIPSES FOR THE YEAR.

In the year 1893 there will be two Eclipses, — both of the SUN.

I. A TOTAL ECLIPSE OF THE SUN, April 16. Invisible to North America. Visible to South America, the larger part of Africa, southern Europe, and intermediate Atlantic Ocean.

II. AN ANNULAR ECLIPSE OF THE SUN, October 9. Visible to the western halves of North and South America, (including the West Indies,) the extreme north-eastern tip of Asia, and eastern Pacific Ocean. Invisible east of a line drawn through Bismarck, (Dak.), Omaha, Memphis, and Sapelo Island, (Ga.) The path of the annulus being in the Pacific Ocean. Occurring, as a partial Eclipse, as follows: —

	Standard.	Begin.	End.	Dir. Eclipsed.
Lawrence, Kan.....	Central	H. M. 2 2 A.	H. M. 2 41 A.	Small.
Galveston, Tex.....	"	1 59 A.	3 39 A.	2
San Antonio, Tex.....	"	1 38 A.	3 33 A.	3
Austin, Tex.....	"	1 40 A.	3 31 A.	3
New Orleans, La.....	"	2 27 A.	3 31 A.	1
Mobile, Ala.....	"	2 35 A.	3 25 A.	1
Pensacola, Fla.....	"	2 37 A.	3 25 A.	1
Bismarck, Dak.....	Mountain	0 55 A.	1 18 A.	Slight.
Denver, Col.....	"	0 13 A.	1 56 A.	2
Salt Lake City, Utah..	"	11 47 M.	1 51 A.	3
Santa Fe, N. Mex.....	"	0 7 A.	2 9 A.	3
Gallatin, Mont.....	"	11 55 M.	1 55 A.	2
San Francisco, Cal....	Pacific	10 19 M.	0 55 A.	5
Portland, Ore.....	"	10 25 M.	0 57 A.	4
Victoria, V. C. I.....	"	10 26 M.	0 28 A.	3
Los Angeles, Cal.....	"	10 31 M.	1 8 A.	5
San Diego, Cal.....	"	10 31 M.	1 13 A.	6
Monterey, Cal.....	"	10 22 M.	0 39 A.	6
Virginia City, Nev.....	"	10 25 M.	0 54 A.	5

MORNING AND EVENING STARS.

MERCURY will be Evening Star about March 14, July 11, and November 5; and Morning Star about April 28, August 25, and December 14.

VENUS will be Morning Star till May 2; and Evening Star the rest of the year.

JUPITER will be Evening Star till April 27; then Morning Star till November 18; and Evening Star again the rest of the year.

CHRONOLOGICAL CYCLES.

Dominical Letter	A.
Epact	12
Lunar Cycle, or Golden Number	13
Solar Cycle	26
Roman Indiction	6
Julian Period	6606

The Calendars for the Latitude of Boston and Chicago

May be used for Central and Southern New England, Central New York, Southern Michigan, Southern Wisconsin, Northern Iowa, Northern Nebraska, South Dakota, and Wyoming.

The Calendars for the Latitude of New York and Philadelphia

May be used for Southern New York, New Jersey, Pennsylvania, Northern Ohio, Northern Indiana, Northern Illinois, Southern Iowa, and Southern Nebraska.

The Calendars for the Latitude of Washington, Cincinnati, etc.

May be used for Delaware, Maryland, the Virginias, Southern Ohio, Southern Indiana, Southern Illinois, Kentucky, Missouri, Kansas, and Colorado.

THE SIZE OF THE SEAS.

	Miles long.
Mediterranean.....	2,000
Caribbean.....	1,800
Red.....	1,400
Black.....	932
Baltic.....	600

AREA OF OCEANS IN SQ. MILES.

Pacific.....	80,000,000
Atlantic.....	40,000,000
Indian.....	20,000,000
Southern.....	10,000,000
Arctic.....	5,000,000

SIZE OF THE GREAT LAKES.

	Miles long.	Miles wide.
Superior.....	380	120
Michigan.....	330	60
Ontario.....	170	40
Champlain.....	123	12
Erie.....	270	50
Huron.....	250	90
Winnipeg.....	240	40
Athabaska.....	200	20



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
FULL MOON	2d. 8h. 41m. M.	2d. 7h. 41m. M.
LAST QUARTER	9d. 5h. 28m. A.	9d. 4h. 28m. A.
NEW MOON	17d. 8h. 28m. A.	17d. 7h. 28m. A.
FIRST QUARTER	25d. 1h. 27m. M.	25d. 0h. 27m. M.
FULL MOON	31d. 9h. 11m. A.	31d. 8h. 11m. A.

Day.	Day of W'k.	LATITUDE OF BOSTON AND CHICAGO.		LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS.	
		Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	S	17 30	6 51	17 25	6 44	17 19	6 37
2	Mo.	14 40	rises.	14 45	rises.	14 50	rises.
3	Tu.	17 30	5 50	17 25	5 56	17 19	6 3
4	We.	14 42	7 5	14 47	7 10	14 52	7 16
5	Th.	17 30	8 18	17 25	8 21	17 19	8 26
6	Fr.	14 44	9 27	14 49	9 29	14 54	9 32
7	Sa.	17 29	10 33	17 25	10 34	17 19	10 36
8	S	14 46	11 36	14 51	11 35	14 56	11 36
9	Mo.	17 29	morn	17 24	morn	17 19	morn
10	Tu.	14 48	0 38	14 53	0 36	14 58	0 35
11	We.	17 28	1 40	17 24	1 37	17 18	1 35
12	Th.	14 50	2 43	14 55	2 39	15 0	2 35
13	Fr.	17 28	3 47	17 23	3 42	17 18	3 36
14	Sa.	14 53	4 51	14 57	4 45	15 2	4 38
15	S	17 27	5 52	17 22	5 45	17 17	5 38
16	Mo.	14 55	6 46	15 0	6 39	15 4	6 32
17	Tu.	17 26	sets.	17 21	sets.	17 16	sets.
18	We.	14 57	5 29	15 2	5 34	15 6	5 41
19	Th.	17 24	6 41	17 20	6 45	17 15	6 50
20	Fr.	15 0	7 53	15 4	7 56	15 9	8 0
21	Sa.	17 23	9 4	17 19	9 5	17 14	9 8
22	S	15 2	10 16	15 7	10 16	15 11	10 17
23	Mo.	17 22	11 28	17 17	11 26	17 13	11 26
24	Tu.	15 5	morn	15 9	morn	15 13	morn
25	We.	17 21	0 42	17 16	0 39	17 12	0 37
26	Th.	15 7	1 59	15 11	1 55	15 15	1 51
27	Fr.	17 18	3 17	17 14	3 11	17 10	3 6
28	Sa.	15 10	4 32	15 14	4 25	15 18	4 19
29	S	17 16	5 41	17 13	5 34	17 9	5 26
30	Mo.	15 13	6 39	15 16	6 32	15 20	6 25
31	Tu.	17 14	rises.	17 11	rises.	17 7	rises.



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
FULL MOON	2d. 11h. 3m. M.	2d. 10h. 3m. M.
LAST QUARTER...	10d. 0h. 13m. A.	10d. 11h. 13m. M.
NEW MOON	17d. 11h. 33m. A.	17d. 10h. 33m. A.
FIRST QUARTER..	24d. 4h. 33m. A.	24d. 3h. 33m. A.

Day.	Day of W'k.	LATITUDE OF BOSTON AND CHICAGO. Local Mean Time.		LAT. OF NEW YORK AND PHILA. Local Mean Time.		LAT. OF WASH. C.M. & ST. LOUIS. Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	WE.	r6 35	6 29	r6 33	6 25	r6 32	6 22
2	TH.	r5 52	rises.	r5 53	rises.	r5 54	rises.
3	FR.	r6 32	7 3	r6 30	7 4	r6 29	7 5
4	SA.	r5 54	8 9	r5 55	8 8	r5 57	8 8
5	S	r6 28	9 13	r6 27	9 11	r6 26	9 10
6	Mo.	r5 57	10 16	r5 58	10 13	r5 59	10 10
7	TU.	r6 25	11 20	r6 24	11 16	r6 23	11 11
8	WE.	r5 59	morn	r6 0	morn	r6 1	morn
9	TH.	r6 21	0 25	r6 21	0 19	r6 20	0 14
10	FR.	r6 1	1 27	r6 2	1 21	r6 3	1 14
11	SA.	r6 18	2 26	r6 17	2 19	r6 17	2 11
12	S	r6 4	3 20	r6 4	3 13	r6 5	3 5
13	Mo.	r6 15	4 6	r6 14	3 59	r6 14	3 53
14	TU.	r6 6	4 45	r6 6	4 39	r6 7	4 33
15	WE.	r6 11	5 17	r6 11	5 12	r6 11	5 8
16	TH.	r6 8	5 44	r6 9	5 41	r6 9	5 39
17	FR.	r6 8	sets.	r6 8	sets.	r6 8	sets.
18	SA.	r6 11	6 58	r6 11	6 58	r6 11	6 58
19	S	r6 4	8 15	r6 4	8 13	r6 5	8 12
20	Mo.	r6 13	9 34	r6 13	9 30	r6 13	9 27
21	TU.	r6 1	10 54	r6 1	10 49	r6 2	10 44
22	WE.	r6 15	morn	r6 15	morn	r6 15	morn
23	TH.	r5 57	0 13	r5 58	0 7	r5 58	0 0
24	FR.	r6 17	1 26	r6 17	1 19	r6 16	1 12
25	SA.	r5 54	2 29	r5 54	2 22	r5 55	2 14
26	S	r6 20	3 20	r6 19	3 14	r6 18	3 7
27	Mo.	r5 50	4 1	r5 51	3 56	r5 52	3 50
28	TU.	r6 22	4 33	r6 21	4 29	r6 20	4 25
29	WE.	r5 47	4 58	r5 48	4 55	r5 49	4 53
30	TH.	r6 24	5 19	r6 23	5 17	r6 22	5 17
31	FR.	r5 43	5 38	r5 44	5 38	r5 46	5 38



NT. CHIC
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
LAST QUARTER...	8d. 9h. 24m. A.	8d. 8h. 24m. A.
NEW MOON.....	15d. 5h. 46m. A.	15d. 4h. 46m. A.
FIRST QUARTER..	22d. 9h. 52m. M.	22d. 8h. 52m. M.
FULL MOON.....	30d. 10h. 22m. M.	30d. 9h. 22m. M.

LATITUDE OF BOSTON AND CHICAGO.			LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CEN. & ST. LOUIS.		
Day.	Day of Wk.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	Mo.	r4 54	rises.	r4 58	rises.	r5 2	rises.
2	Tu.	r7 1	9 5	r6 57	8 59	r6 54	8 53
3	We.	r4 52	10 7	r4 55	10 0	r4 50	9 53
4	Th.	r7 3	11 4	r7 0	10 57	r6 56	10 49
5	Fr.	r4 49	11 55	r4 53	11 48	r4 57	11 40
6	Sa.	r7 5	morn	r7 2	morn	r6 57	morn
7	S	r4 47	0 39	r4 51	0 33	r4 55	0 26
8	Mo.	r7 8	1 16	r7 4	1 10	r6 59	1 5
9	Tu.	r4 44	1 45	r4 48	1 41	r4 53	1 37
10	We.	r7 10	2 10	r7 6	2 7	r7 1	2 5
11	Th.	r4 42	2 33	r4 46	2 31	r4 51	2 31
12	Fr.	r7 12	2 55	r7 8	2 55	r7 3	2 55
13	Sa.	r4 40	3 17	r4 41	3 18	r4 49	3 20
14	S	r7 14	3 42	r7 10	3 45	r7 5	3 48
15	Mo.	r4 38	4 11	r4 42	4 15	r4 47	4 20
16	Tu.	r7 16	sets.	r7 11	sets.	r7 7	sets.
17	We.	r4 36	10 4	r4 40	9 57	r4 45	9 49
18	Th.	r7 18	11 8	r7 13	11 1	r7 8	10 53
19	Fr.	r4 34	11 58	r4 39	11 52	r4 44	11 45
20	Sa.	r7 20	morn	r7 15	morn	r7 10	morn
21	S	r4 32	0 37	r4 37	0 32	r4 42	0 27
22	Mo.	r7 22	1 7	r7 17	1 3	r7 12	1 0
23	Tu.	r4 31	1 31	r4 36	1 29	r4 41	1 27
24	We.	r7 24	1 51	r7 19	1 50	r7 13	1 50
25	Th.	r4 29	2 10	r4 34	2 10	r4 39	2 11
26	Fr.	r7 26	2 28	r7 20	2 29	r7 15	2 32
27	Sa.	r4 28	2 48	r4 33	2 51	r4 38	2 54
28	S	r7 27	3 10	r7 22	3 14	r7 17	3 18
29	Mo.	r4 27	3 34	r4 32	3 39	r4 37	3 45
30	Tu.	r7 29	rises.	r7 23	rises.	r7 18	rises.
31	We.	r4 26	8 59	r4 31	8 52	r4 36	8 44



MOON'S PHASES.
(in Standard Time.)

EAST'N DIVISION.

CENT. DIVISION.

LAST QUARTER ..	6d. 5h. 5m. A.	6d. 4h. 5m. A.
NEW MOON	13d. 7h. 47m. M.	13d. 6h. 47m. M.
FIRST QUARTER ..	20d. 0h. 2m. A.	20d. 11h. 2m. M.
FULL MOON	28d. 3h. 10m. A.	28d. 2h. 10m. A.

**LATITUDE OF BOSTON
AND CHICAGO.**

**LAT. OF NEW YORK
AND PHILA.**

**LAT. OF WASH.
CIN. & ST. LOUIS.**

Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	SA.	74 27	9 49	74 32	9 41	74 38	9 39
2	S	77 40	10 16	77 34	10 12	77 29	10 9
3	MO.	74 28	10 40	74 33	10 37	74 30	10 36
4	TU.	77 39	11 1	77 34	11 0	77 28	10 59
5	WE.	74 29	11 22	74 35	11 22	74 40	11 23
6	TH.	77 39	11 43	77 33	11 44	77 28	11 47
7	FR.	74 30	morn	74 36	morn	74 41	morn
8	SA.	77 38	0 7	77 33	0 10	77 27	0 14
9	S	74 32	0 35	74 38	0 39	74 43	0 45
10	MO.	77 37	1 10	77 32	1 16	77 26	1 22
11	TU.	74 33	1 57	74 39	2 4	74 44	2 12
12	WE.	77 36	2 56	77 31	3 3	77 26	3 12
13	TH.	74 35	sets.	74 40	sets.	74 45	sets.
14	FR.	77 35	9 1	77 30	8 56	77 24	8 52
15	SA.	74 37	9 32	74 42	9 28	74 47	9 26
16	S	77 34	9 57	77 29	9 55	77 23	9 54
17	MO.	74 38	10 18	74 43	10 17	74 48	10 17
18	TU.	77 32	10 38	77 28	10 38	77 22	10 40
19	WE.	74 40	10 57	74 45	10 59	74 50	11 2
20	TH.	77 31	11 17	77 26	11 20	77 21	11 24
21	FR.	74 42	11 40	74 47	11 44	74 52	11 49
22	SA.	77 29	morn	77 24	morn	77 19	morn
23	S	74 44	0 7	74 48	0 12	74 53	0 19
24	MO.	77 27	0 39	77 23	0 45	77 18	0 53
25	TU.	74 46	1 19	74 50	1 26	74 55	1 34
26	WE.	77 25	2 7	77 21	2 14	77 16	2 23
27	TH.	74 48	3 3	74 52	3 10	74 57	3 18
28	FR.	77 23	rises.	77 19	rises.	77 14	rises.
29	SA.	74 50	8 20	74 54	8 16	74 58	8 12
30	S	77 21	8 45	77 17	8 42	77 12	8 40
31	MO.	74 52	9 7	74 56	9 5	75 0	9 5



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
LAST QUARTER...	4d. 11h. 23m. A.	4d. 10h. 23m. A.
NEW MOON.....	11d. 3h. 48m. A.	11d. 2h. 48m. A.
FIRST QUARTER..	19d. 4h. 52m. M.	19d. 3h. 52m. M.
FULL MOON.....	27d. 3h. 43m. M.	27d. 2h. 43m. M.

Day.	Day of W'k.	LATITUDE OF BOSTON AND CHICAGO.		LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS.	
		Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	TU.	r4 53	9 27	r4 57	9 27	r5 1	9 27
2	WE.	r7 18	9 48	r7 14	9 49	r7 9	9 51
3	TH.	r4 55	10 10	r4 59	10 12	r5 3	10 16
4	FR.	r7 15	10 36	r7 12	10 40	r7 7	10 45
5	SA.	r4 57	11 8	r5 1	11 13	r5 5	11 20
6	S	r7 13	11 48	r7 9	11 54	r7 5	morn
7	MO.	r4 59	morn	r5 2	morn	r5 6	0 2
8	TU.	r7 10	0 41	r7 7	0 48	r7 3	0 57
9	WE.	r5 1	1 47	r5 4	1 54	r5 8	2 3
10	TH.	r7 7	3 1	r7 4	3 7	r7 0	3 15
11	FR.	r5 3	sets.	r5 6	sets.	r5 10	sets.
12	SA.	r7 4	7 57	r7 1	7 54	r6 58	7 52
13	S	r5 5	8 20	r5 8	8 19	r5 12	8 18
14	MO.	r7 2	8 40	r6 59	8 40	r6 55	8 41
15	TU.	r5 7	8 59	r5 10	9 0	r5 14	9 3
16	WE.	r6 59	9 19	r6 56	9 22	r6 53	9 25
17	TH.	r5 10	9 41	r5 12	9 45	r5 15	9 50
18	FR.	r6 56	10 6	r6 53	10 11	r6 50	10 17
19	SA.	r5 12	10 37	r5 14	10 43	r5 17	10 50
20	S	r6 53	11 14	r6 50	11 21	r6 47	11 29
21	MO.	r5 14	11 59	r5 16	morn	r5 19	morn
22	TU.	r6 50	morn	r6 47	0 6	r6 44	0 15
23	WE.	r5 16	0 52	r5 18	0 59	r5 21	1 8
24	TH.	r6 46	1 53	r6 44	1 59	r6 42	2 7
25	FR.	r5 18	3 1	r5 20	3 6	r5 23	3 13
26	SA.	r6 43	4 11	r6 41	4 15	r6 39	4 20
27	S	r5 20	rises.	r5 22	rises.	r5 25	rises.
28	MO.	r6 40	7 33	r6 38	7 32	r6 36	7 32
29	TU.	r5 22	7 52	r5 24	7 53	r5 26	7 54
30	WE.	r6 37	8 14	r6 35	8 16	r6 33	8 19
31	TH.	r5 24	8 39	r5 26	8 42	r5 28	8 47

September

1893

LIBRA

MOON'S PHASES. (in Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
LAST QUARTER...	3d. 4h. 41m. M.	3d. 3h. 41m. M.
NEW MOON	10d. 2h. 5m. M.	10d. 1h. 5m. M.
FIRST QUARTER..	17d. 11h. 19m. A.	17d. 10h. 19m. A.
FULL MOON	25d. 3h. 23m. A.	25d. 2h. 23m. A.

LATITUDE OF BOSTON AND CHICAGO.			LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS.		
Day.	Day of Wk.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	FR.	75 25	9 9	75 27	9 14	75 29	9 20
2	SA.	76 31	9 47	76 30	9 53	76 28	10 0
3	S	75 27	10 34	75 29	10 41	75 31	10 49
4	MO.	76 28	11 33	76 26	11 40	76 25	11 49
5	TU.	75 30	morn	75 31	morn	75 33	morn
6	WE.	76 24	0 43	76 23	0 50	76 22	0 58
7	TH.	75 32	2 0	75 33	2 6	75 35	2 12
8	FR.	76 21	3 16	76 20	3 21	76 19	3 26
9	SA.	75 34	4 32	75 35	4 35	75 36	4 39
10	S	76 18	sets.	76 16	sets.	76 15	sets.
11	MO.	75 36	7 1	75 37	7 2	75 38	7 3
12	TU.	76 14	7 22	76 13	7 24	76 12	7 27
13	WE.	75 38	7 42	75 39	7 45	75 40	7 50
14	TH.	76 11	8 6	76 10	8 11	76 9	8 16
15	FR.	75 40	8 35	75 41	8 41	75 42	8 47
16	SA.	76 7	9 9	76 7	9 15	76 6	9 23
17	S	75 42	9 50	75 43	9 57	75 43	10 6
18	MO.	76 3	10 40	76 3	10 47	76 3	10 56
19	TU.	75 44	11 38	75 45	11 45	75 45	11 53
20	WE.	76 0	morn	76 0	morn	76 0	morn
21	TH.	75 47	0 43	75 47	0 49	75 47	0 56
22	FR.	75 56	1 52	75 56	1 57	75 57	2 3
23	SA.	75 49	3 2	75 49	3 5	75 49	3 10
24	S	75 53	4 12	75 53	4 14	75 53	4 17
25	MO.	75 51	rises.	75 51	rises.	75 51	rises.
26	TU.	75 49	6 19	75 50	6 21	75 50	6 23
27	WE.	75 53	6 43	75 53	6 46	75 52	6 50
28	TH.	75 46	7 10	75 46	7 14	75 47	7 20
29	FR.	75 55	7 45	75 55	7 51	75 54	7 58
30	SA.	75 43	8 30	75 43	8 37	75 43	8 45

October 1893

MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
LAST QUARTER...	2d. 10h. 19m. M.	2d. 9h. 19m. M.
NEW MOON.....	9d. 3h. 27m. A.	9d. 2h. 27m. A.
FIRST QUARTER..	17d. 6h. 20m. A.	17d. 5h. 20m. A.
FULL MOON.....	25d. 2h. 28m. M.	25d. 1h. 28m. M.
LAST QUARTER...	31d. 5h. 42m. A.	31d. 4h. 42m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS.	
Day.	Day of W'k.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	S	75 58	9 26	75 57	9 33	75 56	9 42
2	Mo.	75 39	10 33	75 40	10 40	75 40	10 48
3	Tu.	76 0	11 47	75 59	11 53	75 58	morn
4	We.	75 36	morn	75 37	morn	75 37	0 0
5	Th.	76 2	1 3	76 1	1 8	76 0	1 14
6	Fr.	75 32	2 17	75 33	2 20	75 34	2 25
7	Sa.	76 4	3 29	76 3	3 31	76 2	3 34
8	S	75 29	4 37	75 30	4 38	75 31	4 39
9	Mo.	76 7	5 44	76 5	5 43	76 4	5 43
10	Tu.	75 25	sets.	75 27	sets.	75 28	sets.
11	We.	76 9	6 9	76 7	6 13	76 6	6 18
12	Th.	75 22	6 35	75 24	6 40	75 25	6 46
13	Fr.	76 11	7 6	76 9	7 12	76 8	7 20
14	Sa.	75 19	7 44	75 21	7 51	75 22	7 59
15	S	76 14	8 31	76 12	8 38	76 10	8 47
16	Mo.	75 16	9 26	75 18	9 33	75 20	9 42
17	Tu.	76 16	10 27	76 14	10 33	76 12	10 41
18	We.	75 13	11 32	75 15	11 37	75 17	11 44
19	Th.	76 18	morn	76 16	morn	76 14	morn
20	Fr.	75 10	0 40	75 12	0 44	75 14	0 49
21	Sa.	76 21	1 50	76 18	1 53	76 16	1 57
22	S	75 7	3 1	75 9	3 2	75 11	3 5
23	Mo.	76 23	4 13	76 20	4 13	76 18	4 14
24	Tu.	75 4	5 27	75 6	5 25	75 9	5 25
25	We.	76 25	rises.	76 23	rises.	76 20	rises.
26	Th.	75 1	5 41	75 3	5 46	75 6	5 53
27	Fr.	76 28	6 24	76 25	6 30	76 22	6 38
28	Sa.	74 58	7 17	75 1	7 24	75 4	7 33
29	S	76 30	8 22	76 27	8 29	76 25	8 38
30	Mo.	74 55	9 36	74 58	9 42	75 1	9 50
31	Tu.	76 33	10 53	76 30	10 58	76 27	11 4

November

1893



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
NEW MOON.....	8d. 2h. 40m. M.	8d. 1h. 40m. M.
FIRST QUARTER...	16d. 5h. 21m. M.	16d. 4h. 21m. M.
FULL MOON.....	22d. 11h. 36m. A.	22d. 10h. 36m. A.
LAST QUARTER...	29d. 6h. 18m. A.	29d. 5h. 18m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS.	
Day.	Day of Wk.	Local Mean Time.		Local Mean Time.		Local Mean Time.	
		SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.	SUN R.&S.	MOON R.&S.
1	FR.	17 10	0 20	17 5	0 21	17 0	0 24
2	SA.	14 28	1 27	14 33	1 27	14 38	1 28
3	S	17 12	2 32	17 7	2 31	17 2	2 30
4	MO.	14 28	3 37	14 33	3 34	14 38	3 33
5	TU.	17 14	4 42	17 9	4 38	17 4	4 35
6	WE.	14 28	5 47	14 33	5 42	14 38	5 37
7	TH.	17 16	6 51	17 11	6 45	17 6	6 39
8	FR.	14 28	sets.	14 33	sets.	14 38	sets.
9	SA.	17 18	5 11	17 13	5 18	17 8	5 27
10	S	14 28	6 7	14 33	6 14	14 38	6 22
11	MO.	17 20	7 9	17 15	7 15	17 9	7 22
12	TU.	14 28	8 15	14 33	8 20	14 39	8 26
13	WE.	17 21	9 21	17 16	9 25	17 11	9 30
14	TH.	14 29	10 27	14 34	10 29	14 39	10 33
15	FR.	17 23	11 33	17 18	11 34	17 12	11 36
16	SA.	14 29	morn	14 34	morn	14 40	morn
17	S	17 24	0 40	17 19	0 40	17 14	0 41
18	MO.	14 30	1 50	14 35	1 48	14 41	1 48
19	TU.	17 26	3 5	17 20	3 2	17 15	3 0
20	WE.	14 31	4 25	14 36	4 20	14 42	4 16
21	TH.	17 26	5 47	17 21	5 41	17 15	5 35
22	FR.	14 32	7 8	14 37	7 1	14 43	6 54
23	SA.	17 27	rises.	17 22	rises.	17 16	rises.
24	S	14 33	6 11	14 38	6 17	14 44	6 24
25	MO.	17 28	7 32	17 23	7 37	17 17	7 43
26	TU.	14 34	8 52	14 40	8 55	14 45	9 0
27	WE.	17 29	10 6	17 23	10 8	17 18	10 11
28	TH.	14 36	11 16	14 41	11 16	14 46	11 18
29	FR.	17 29	morn	17 24	morn	17 19	morn
30	SA.	14 37	0 24	14 42	0 23	14 48	0 23
31	S	17 30	1 30	17 24	1 28	17 19	1 26

Ther. SUN. JAN. 1, 1893 Wea.

33° at 6.30 AM Snow and Rain.

Miles and Wiley Gilbert have been here today. I have not been out for a walk for I have had chicken pox. The North End Electric cars have begun to run on schedule time with one electric car it has carried a good many people. They carry about 50 each.

Ther. 37° 8 A.M. MONDAY 2 Wea.

47° 8 A.M. Clear.

One Electric car ran during the day and in the evening two cars ran the electricians are busy fixing the electric wires. What case in court came up today I bought the set of the Columbian Exposition for \$26. The weather is better.

Ther. TUESDAY 3 Wea.

22° 05 P.M. Cold.

I went to school today the flag was flying on top of the schoolhouse. Two electric cars are running today. There is very good skating on North Park. The ice is all most ready to cut.

Ther.

WED. JAN. 4, 1893

Wea.

15° 8° M.

Cold.

I have been to school today we are studying evolution. One electric car broke today my dog in the car house so that if it should break down there would be a car to run. There was a large fire in Baker's lumber yard last night the loss was about \$3000.

Ther.

THURSDAY 5

Wea.

17° 11° M.

Snow

Miss Johnson the greatest artist in Worcester is here tonight. The electric cars are running today. The snowfall may come up tonight.

Ther.

FRIDAY 6

Wea.

19° 25° M.

Blizzard

There is something of a blizzard today the blizzard on Monday yesterday morning and was not fully stopped. The North End could not run for a while this morning but they are running now. Amy is down. Granda. Curtis tonight.

Ther.

SAT. JAN. 7, 1893

Wea.

I went to doctor Adams
and had my tooth pulled.
I took my sewing
lesson today. I went
down to Bronson's
and showed her our
Christmas presents.

Ther.

SUNDAY 8

Wea.

I went to church today.
Mrs. Pierce gave me
a blotter. I went out
to a social today.
The car broke the tire which
today and a man
had to get on top
of the car.

Ther.

MONDAY 9

Wea.

Snow
It snowed hard today
and was snowing at
night. There will be good
sleighing. Kate has
broken out with the
chicken pox. It is very
hard to keep the pox
clean.

Ther.

TUES. JAN. 10, 1893

Wea.

There is a lot of snow today. I have shoveled out the walk twice. The electric cars have been running today and the sweeper has been up.

Ther.

WEDNESDAY 11

Wea.

I snowed a good deal today. The sweeper came up today. I want to schedule we are studying about the competition.

Ther.

THURSDAY 12

Wea.

There is fine sleighing today. Aunt Betty is going to sail for E. St. Louis Saturday.

Ther.

FRI. JAN. 13, 1893

Wea.

I went to school today. I am glad that it is Saturday tomorrow. I had my ~~hair~~ hair cut today.

Ther.

SATURDAY 14

Wea.

Philip and I went skating down Barry's hill today after I watched Mr. Woodside who was building the North End water room. I took my drawing lesson.

Ther.

SUNDAY 15

Wea.

I went to Sunday school today. It is cold out. The North End is burning an armature.

Ther.

MON. JAN. 16, 1893

Wea

Its cold today.
He had some of the
hardest and meanest
and most confusing snow
I ever had. Wes.

Ther.

TUESDAY 17

Wea

Zero

I took a picture of
the North End St.
Railway way car today
they are going right
ahead with their
waiting room there is

Ther.

WEDNESDAY 18

Wea

I made a magic
lantern slide of the North
End car the waiting room.

Ther.

THURS. JAN. 19, 1893

Wea.

I printed a picture of the
the North End car.

K ste

Ⓟ vvvvv

Ther.

FRIDAY 20

Wea.

I went to school.
Mrs. Lewis let me
take a book.

Ther.

SATURDAY 21

Wea.

I took my drawing
lesson in the morn-
ing and went to
the dentist in
the afternoon.

Howard came
up and we printed
a picture of the
North End Car.

Ther.

SUN. JAN. 22, 1893

Wea.

I went to Sunday
School and stayed
there all day.

Ther.

MONDAY 23

Wea.

Philip and I made
a wall and hope
it will freeze.
I have a good
picture of the
North End Co. art.

Ther.

TUESDAY 24

Wea.

The North End coacting
room is finished. It
looks very well
and we are having rather
hard lessons at school
now. I was on the
tower of the North
End Company this afternoon.

Ther.

WED. JAN. 25, 1893

Wea.

The North End sweeper
came up today. Amy
went to a fair.

Philip and I made
a bank of snow
about 50 by 10 ft
which we want
to build and have it
frozen and the rest

Ther.

THURSDAY 26

Wea.

* say have some skating.
The electric card rink
carried a lot of
people. The teams
are straining the
span wires.

Ther.

FRIDAY 27

Wea.

He Philip and I
went up to Baker Cove
to stay all night
and had lots of
fun.

Ther. SAT. JAN. 28, 1893 Wea.

I stay up at Uncle
Eddy last night and
had a good time
I had my tooth filled
in the afternoon.

Ther. SUNDAY 29 Wea.

It is very beautiful
so far, it snowed
and the longer, clinging
to the hills. Took
a picture of the North
the trees.

Ther. MONDAY 30 Wea.

It is very very tonight
day. I took a front
off the car.
I am reading London
mid as a what

Ther. TUES. JAN. 31, 1893 Wea.

It is a very slippery day. I went to school the snowed during the night. I have taken a print of the North End car. Am going to Miss Smith says is a very nice and happy school. I have got a new spelling book.

Ther. WEDNESDAY, FEB. 1 Wea.

Ther. THURSDAY 2 Wea.

Ther.

FRI. FEB. 3, 1893

Wea.

There was a fire
in the North End waiting
room the school bell rang

Ther.

SATURDAY 4

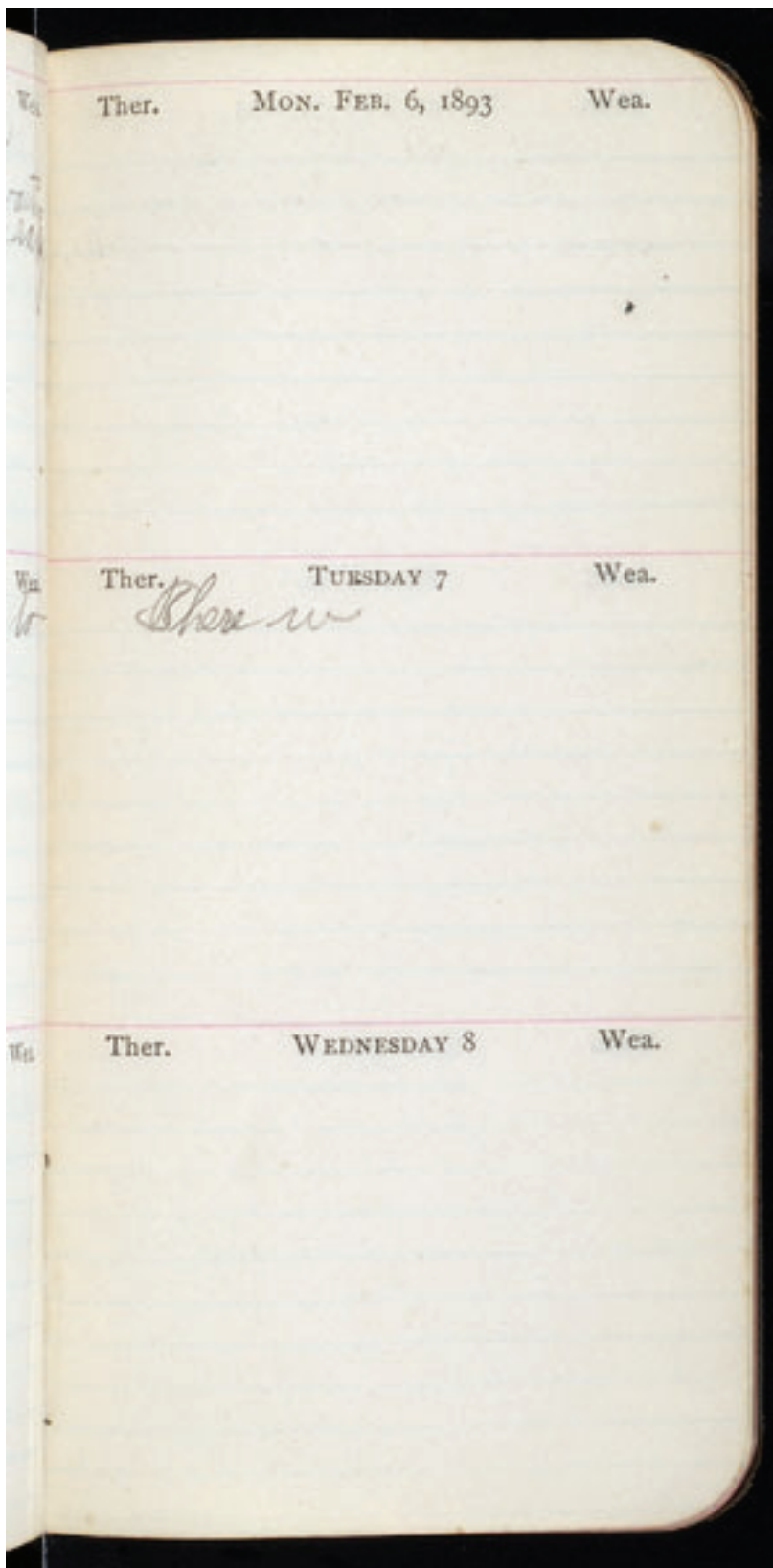
Wea.

It is very slippery to
day.

Ther.

SUNDAY 5

Wea.



Ther.

MON. FEB. 6, 1893

Wea.

Ther.

TUESDAY 7

Wea.

Clear w

Ther.

WEDNESDAY 8

Wea.

Ther.

THURS. FEB. 9, 1893

Wea.

Ther.

FRIDAY 10

Wea.

Ther.

SATURDAY 11

Wea.

Wa

Ther.

SUN. FEB. 12, 1893

Wea.

Wa

Ther.

MONDAY 13

Wea.

Wa

Ther.

TUESDAY 14

Wea.

Ther.

WED. FEB. 15, 1893

Wea.

Ther.

THURSDAY 16

Wea.

Ther.

FRIDAY 17

Wea.

3

Ther.

SAT. FEB. 18, 1893

Wea.

Ther.

SUNDAY 19

Wea.

Ther.

MONDAY 20

Wea.

Ther.

TUES. FEB. 21, 1893

Wea.

Ther.

WEDNESDAY 22

Wea.

Ther.

THURSDAY 23

Wea.

Ther.

FRI. FEB. 24, 1893

Wea.

Ther.

SATURDAY 25

Wea.

Ther.

SUNDAY 26

Wea.

Ther.

MON. FEB. 27, 1893

Wea.

Ther.

TUESDAY 28

Wea.

Ther.

WEDNESDAY, MAR. 1

Wea.

Ther. THURS, MAR. 2, 1893 Wea.

Ther. FRIDAY 3 Wea.

Ther. SATURDAY 4 Wea.

Ther.

SUN. MAR. 5, 1893

Wea.

Ther.

MONDAY 6

Wea.

Ther.

TUESDAY 7

Wea.

3

Ther.

WED. MAR. 8, 1893

Wea.

6

Ther.

THURSDAY 9

Wea.

7

Ther.

FRIDAY 10

Wea.

*I have a bad cold
today*

Ther.

SAT. MAR. 11, 1893

Wea.

I stayed in all day
The North End cars have
come and were taken
up to Mr. Hans born

Ther.

SUNDAY 12

Wea.

Ther.

MONDAY 13

Wea.

Ther. TUES. MAR. 14, 1893 Wea.

Ther. WEDNESDAY 15 Wea.

Ther. THURSDAY 16 Wea.

Ther.

FRI. MAR. 17, 1893

Wea.

Ther.

SATURDAY 18

Wea.

Ther.

SUNDAY 19

Wea.

Ther.

MON. MAR. 20, 1893

Wea.

Ther.

TUESDAY 21

Wea.

Ther.

WEDNESDAY 22

Wea.

Ther. THURS. MAR. 23, 1893 Wea.

Ther. FRIDAY 24 Wea.

Ther. SATURDAY 25 Wea.

Ther.

SUN. MAR. 26, 1893

Wea.

Wa

Ther.

MONDAY 27

Wea.

Wa

Ther.

TUESDAY 28

Wea.

Ther.

WED. MAR. 29, 1893

Wea.

Ther.

THURSDAY 30

Wea.

Ther.

FRIDAY 31

Wea.

Ther. SAT. APRIL 1, 1893 Wea.

Ther. SUNDAY 2 Wea.

Ther. MONDAY 3 Wea.

Ther.

TUES. APRIL 4, 1893

Wea.

Ther.

WEDNESDAY 5

Wea.

Ther.

THURSDAY 6

Wea.

Ther.

FRI. APRIL 7, 1893

Wea.

Ther.

SATURDAY 8

Wea.

Ther.

SUNDAY 9

Wea.

Ther. MON. APRIL 10, 1893 Wea.

Ther. TUESDAY 11 Wea.

Ther. WEDNESDAY 12 Wea.

Ther. THURS. APRIL 13, 1893 Wea.

Ther. FRIDAY 14 Wea.

Ther. SATURDAY 15 Wea.

Ther. SUN. APRIL 16, 1893 Wea.

Ther. MONDAY 17 Wea.

Ther. TUESDAY 18 Wea.

93

Ther. WED. APRIL 19, 1893 Wea.

Ther. THURSDAY 20 Wea.

Ther. FRIDAY 21 Wea.

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SAT. APRIL 22, 1893

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SUNDAY 23

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TUES. APRIL 25, 1893

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THURSDAY 27

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FRI. APRIL 28, 1893

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Ther. MON. MAY 1, 1893 Wea.

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FRIDAY 5

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SATURDAY 6

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Ther. WED. MAY 10, 1893 Wea.

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THURSDAY, JUNE 1

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FRIDAY 2

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Ther. SATURDAY, JULY 1 Wea.

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Ther. THURS. JULY 6, 1893 Wea.

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Ther. SATURDAY 8 Wea.

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SUN. JULY 9, 1893

Wea.

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MONDAY 10

Wea.

Ther. 76

TUESDAY 11

Wea.

Went to the Haysides Inn
with Casper, B. Burn.
We started about 8 o'clock
and arrived there about
11 o'clock. We went over the
tavern and bought a picture
of it for 25¢.

Ther. 74 WED. JULY 12, 1894

Wea. Fair

I went down to grandm^a and
with Paster Brown and
we also went up to
uncle Edd. Mrs. Seab^e
invited us to supper, the
Ross were there.

Ther. 68 THURSDAY 13 12

Wea. Rain

I went down to uncle Hill to-day
and drove the horse rake for
a little while, and when
cut the grass for a while.
grandd^a is not feeling
very well. Uncle Hill
hopes to finish haying
this week. Picked some
thimble berries.

Ther. FRIDAY 14

Wea. Fair

The weather is cloudy with rain.

Ther.

SAT. JULY 15, 1893

Wea.

Ther.

SUNDAY 16

Wea.

Ther.

MONDAY 17

Wea.

Ther. TUES. JULY 18, 1893 Wea.

Ther. WEDNESDAY 19 Wea.

I am down at
Grandma's made
egg a visit. I picked
cherries, went down
town and got some
raspberries
and did the walk,
cleaned the henhouse
and painted the railing

Ther. THURSDAY 20 Wea.

Ther.

FRI. JULY 21, 1893

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Ther. MON. JULY 24, 1893 Wea.

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Ther. THURS. JULY 27, 1893 Wea.

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WED. SEPT. 13, 1893
THURSDAY 14
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SAT. SEPT. 16, 1893

Wea.

North End Street Railway Company

SUNDAY 17

Wea.

MONDAY 18

Wea.

Ther. TUES. SEPT. 19, 1893 Wea.

Ther. WEDNESDAY 20 Wea.

Ther. THURSDAY 21 Wea.

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Ther. THURS. SEPT. 28, 1893 Wea.

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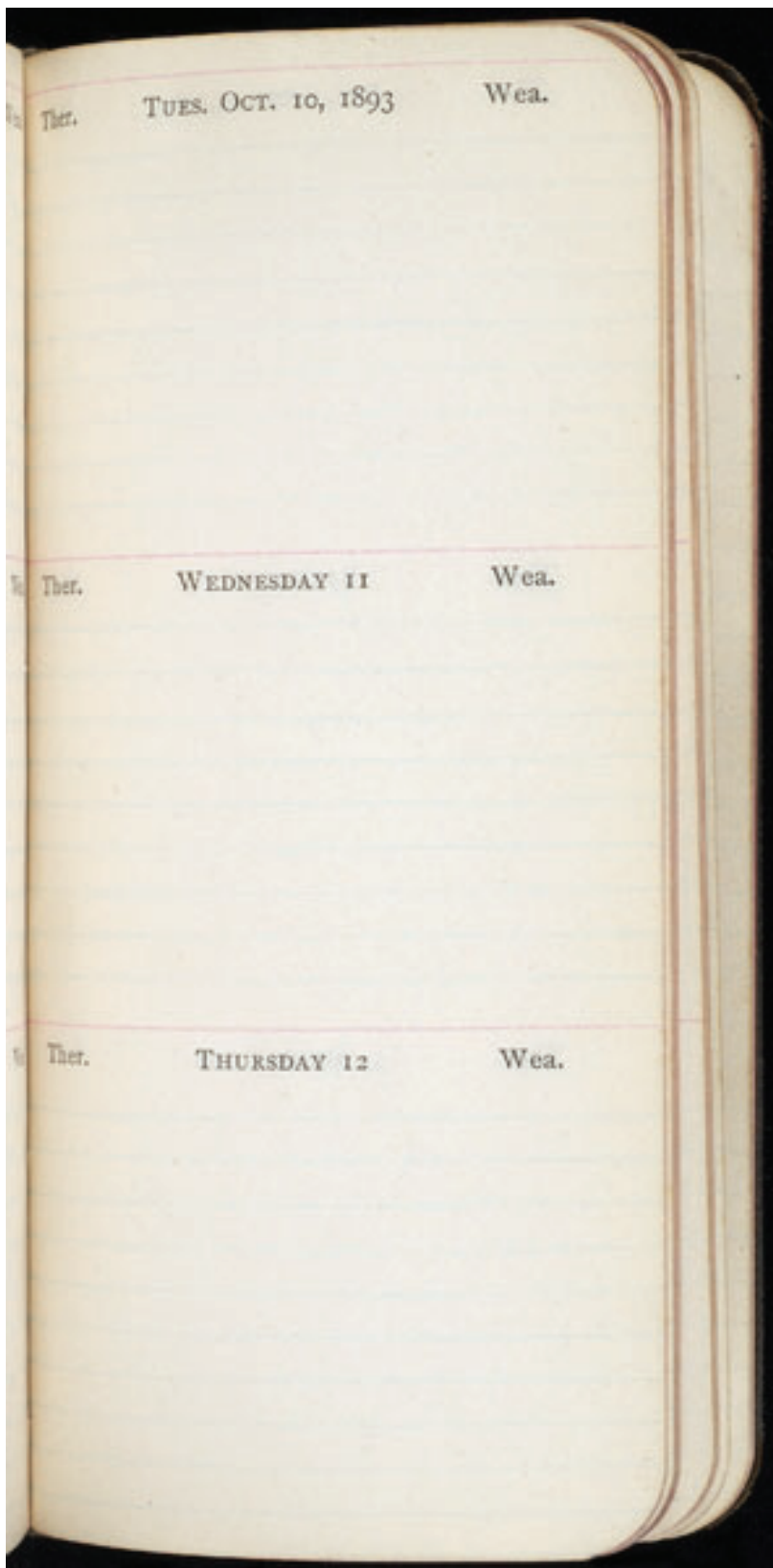
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WEDNESDAY, NOV. 1

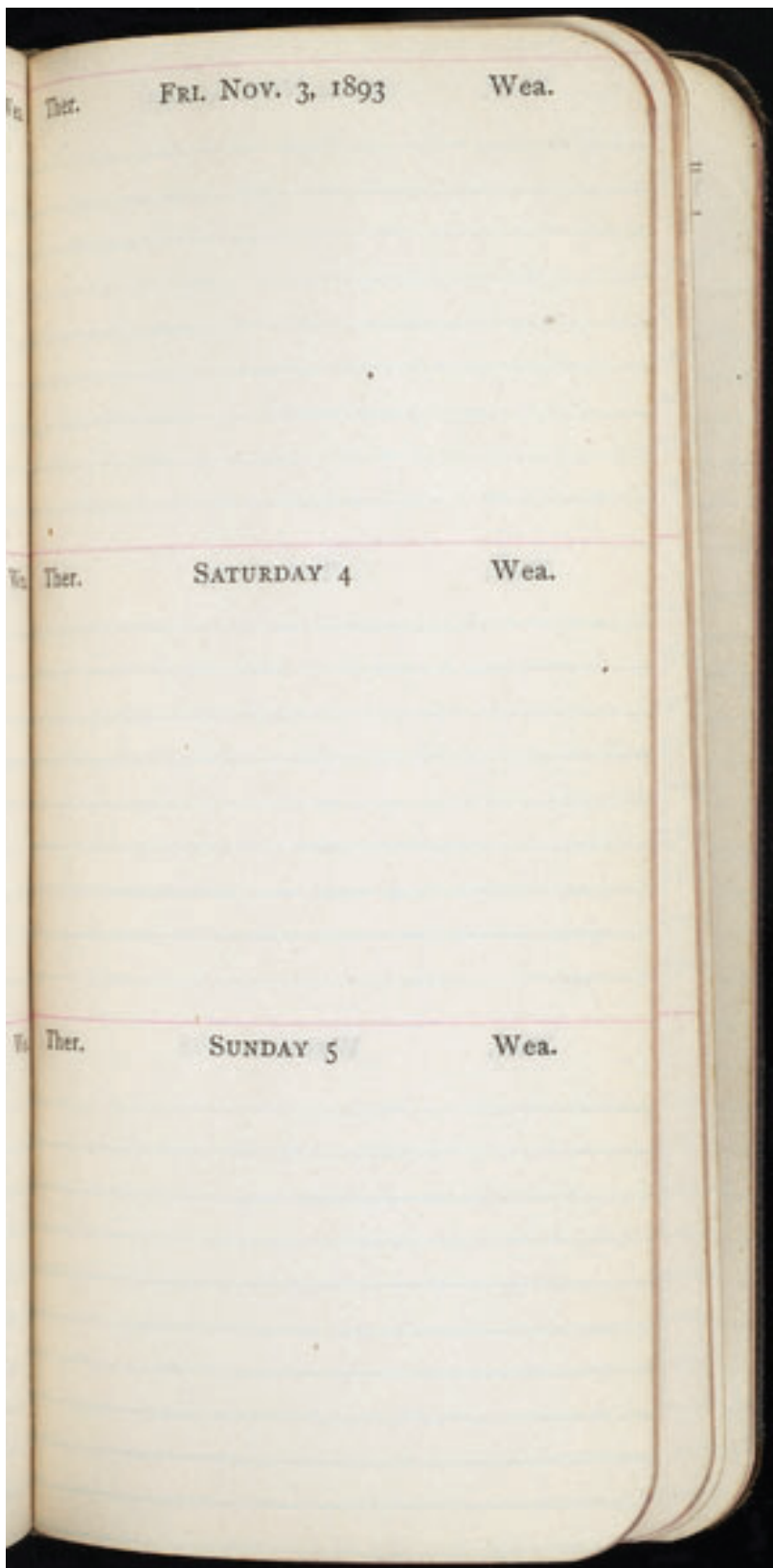
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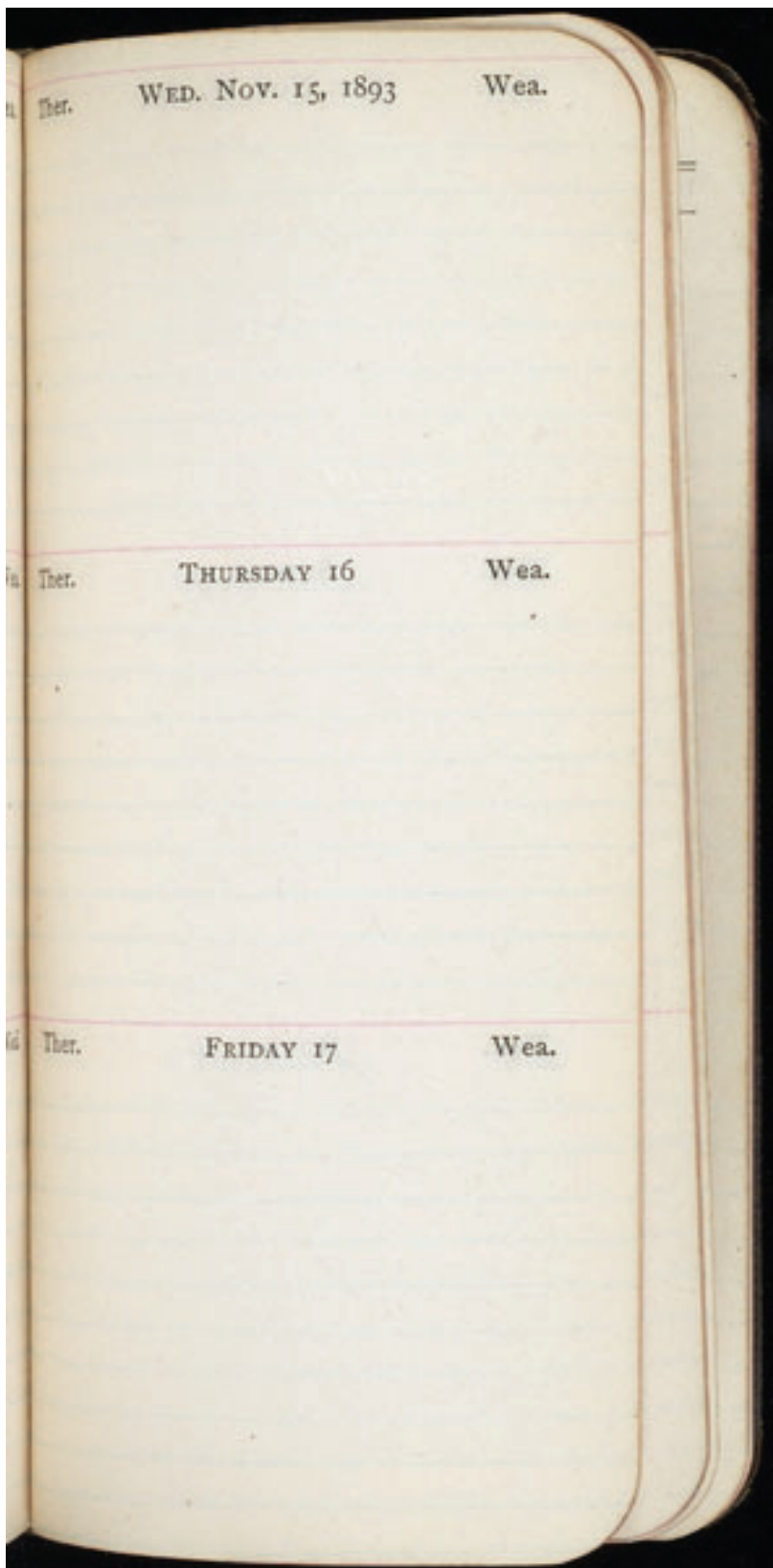
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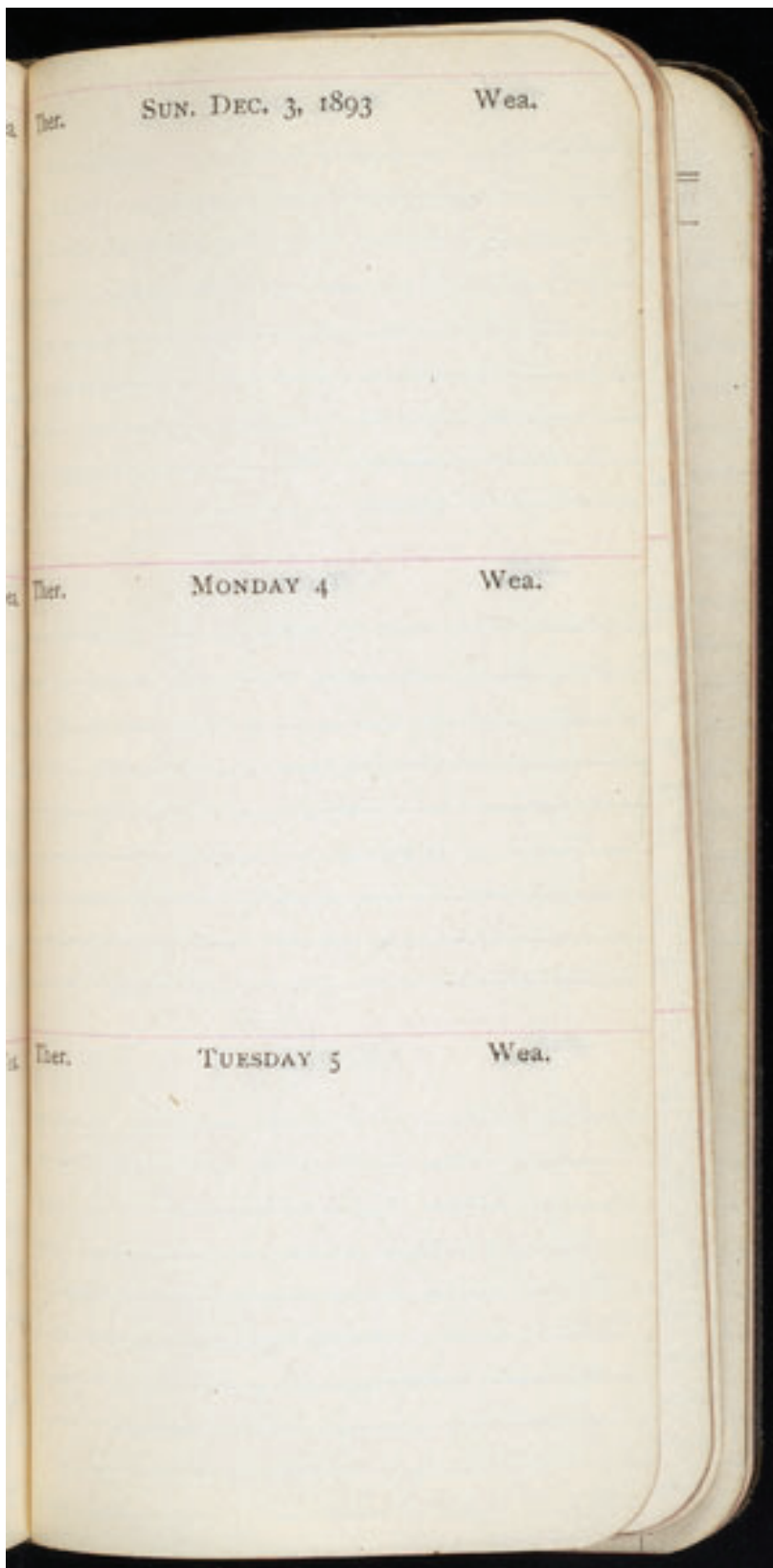
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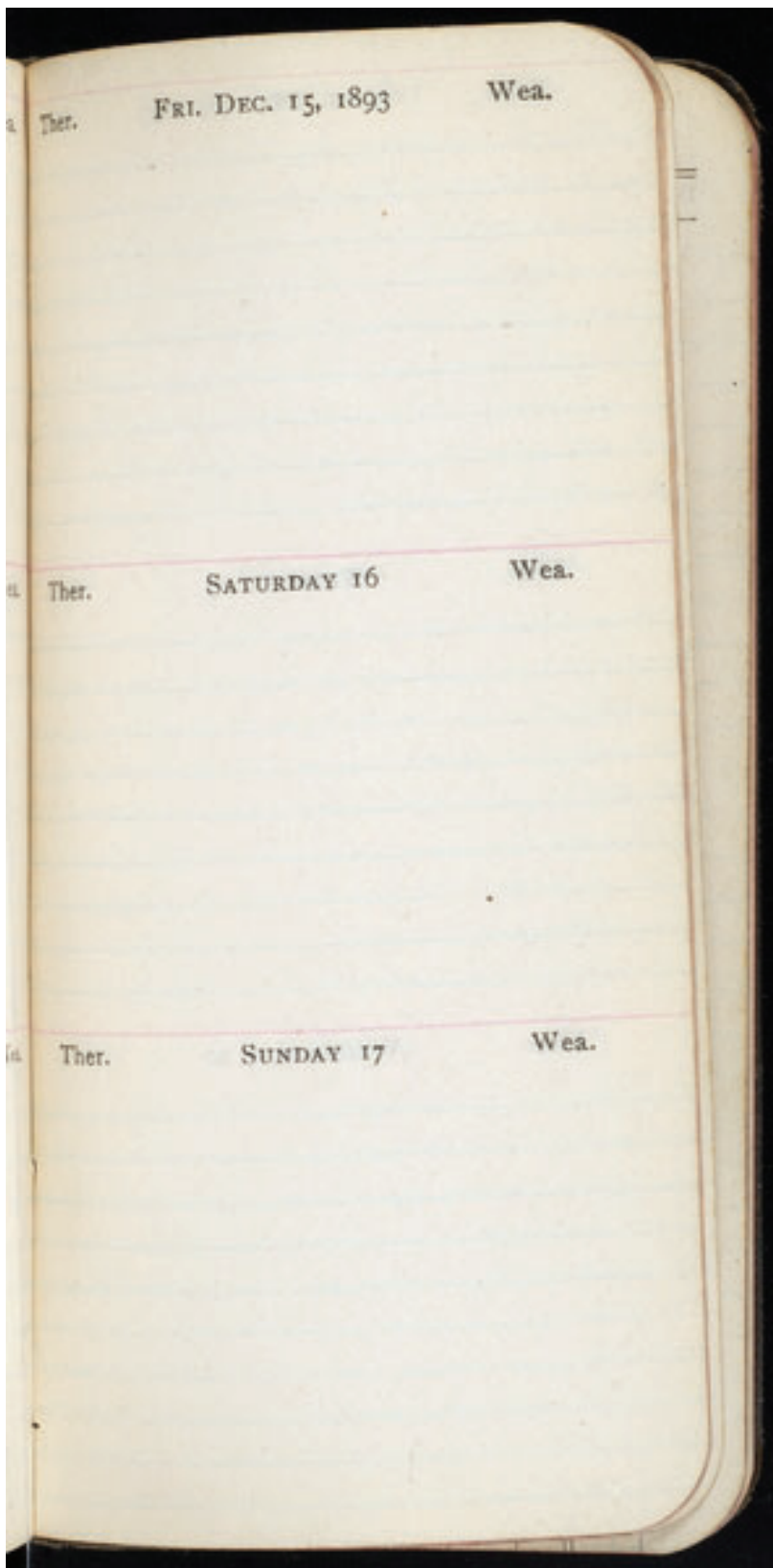
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SUNDAY 31

Wea.

Club. Yell
Pi-ki-ti - Pi-hi-ti
Ka-who - Ka - boom
-ling - boom - ling
- boom - bar. S.C.
S.C. What a jolly
club are we.

MEMORANDA

July 15, 1893.

Mama	150	lbs
Papa	136	"
Shea	125	"
Amy	88	"
Kate	53	"

MEMORANDA

MEMORANDA



MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA



CASH ACCOUNT. JANUARY.

Date.	Received.	Paid.
1. On hand	\$ 00	
2. Papa	\$ 26	
2. For stamps		\$ 26
7. America		

CASH ACCOUNT. FEBRUARY.

Date.	<i>On hand</i>	Received.	Paid.
		20. 00	
	<i>For work</i>	1. 00	
	<i>Uncle Ed</i>	8 50	
	<i>Mr. Howe</i>	25	
	<i>For paper</i>	-	25
	<i>Toning Solution</i>	-	50
		1. 75	75

CASH ACCOUNT. MARCH.

Date.	On hand -	Received.	Paid.
		\$1 00	
	plates		45
	paper		25
	Developer		30
	mamma	1 00	
		25	
	caps mounted		25
	2 packages of		
	Solar paper		50
	for picture	10	
	for four pictures	20	
		2.60	21.75
		1 75	
		.85	

CASH ACCOUNT. APRIL.

Date.		Received.	Paid.
	<i>On hand</i>		
		85	
	<i>For work</i>	50	
		<u>135</u>	
	<i>Grandma C.</i>	150	
	<i>Grandma C.</i>	100	
	<i>W. S. Nelson</i>		100
	<i>French "</i>		12
	<i>English "</i>		12
		385	324
		<u>324</u>	
		61	

CASH ACCOUNT. MAY.

Date.	Received.	Paid.
<i>Op hazard</i>	51	
<i>Gatehead</i>	7.00	1.00
<i>Mang</i>	50	
<i>for crab</i>	x	1
	<u>101</u>	<u>1.01</u>

CASH ACCOUNT. JUNE.

Date.	On hand	Received.	Paid.
	Uncle Will	\$ 0.00	
	For work	50	
	" "	50	
	" "	50	
	" "	75	
	Grandma	25	
	Lense	1.50	
	Camera		5.00
	Lent me		
		<u>4.75</u>	
		5.00	5.00

CASH ACCOUNT. JULY.

Date.	On hand	Received.	Paid.
		7000	
	Work.	50	
Cousin	Caroline	100	
"	Ann	100	
	Fireworks	50	50
	Plates	50	50
	Alum	20	20
	Develop	25	25
	Uncle Will	50	145
	Grandma	40	50
	Uncle Will	10	100
			100

CASH ACCOUNT. AUGUST.

Date.	Received.	Paid.
Mounts		8
Plate		.50
Mounts		50
Paper		12
wheel		25
Grandpa	3.00	= 00
Grandma	1.00	/ 00

CASH ACCOUNT.

July '94
SEPTEMBER.

Date.		Received.		Paid.	
	On hand July 1st	3	96		
1	Amy's birthday				25
2	Aber uni month				63
3	Uncle Will		50		
7	Carrots		25		
7	America Photo.				20
9	Gunis school				50
9	Grandpa		1 00		
10	Railway fare				55
10	Picture				25
16	Gun				60
16	Uncle Will		1 00		
17	Glowance		1 00		
19	Grandpa		1 70		
21	2 doz plates				1 00
21	2 bottle dev				60
23	Myro				05
23	Car fare				05
27	Grandma		1 00		
27	Uncle Will		01		
25	Car fare				05
25	Gun				20

94

CASH ACCOUNT. SEPTEMBER.

Bal.	vd.	Date.	Received.	Paid.
96				
6				
51				
25				
00				
00				
00				
10				
00				
11				

SUMMARY OF CASH ACCOUNT.

		Received.	Paid.
JAN.			
FEB.			
MAR.			
APR.			
MAY.			
JUN.			
JUL.			
AUG.			
SEP.			
OCT.			
NOV.			
DEC.			

BILLS PAYABLE. FEBRUARY.

BILLS

Date. NAME. Dolls. Cts.

RECEIVABLE.

BILLS PAYABLE. APRIL.

Date. NAME. Dolls. Cts.

RECEIVABLE.

APRIL

BILLS PAYABLE. MAY.

Date.

NAME.

Dolls. Cts.

RECEIVABLE.

BILLS PAYABLE. JUNE.

Date.	NAME.	Dolls.	Cts.
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RECEIVABLE.

BILLS PAYABLE. AUGUST.

Date.	NAME.	Dolls.	Cts.
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RECEIVABLE.

AUGUST

BILLS PAYABLE. SEPTEMBER.

Date.	NAME.	Dolls.	Cts.
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RECEIVABLE.

BILLS PAYABLE. OCTOBER.

Date.	NAME.	Dolls.	Cts.
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RECEIVABLE.

BILLS PAYABLE. DECEMBER.

Date.	NAME.	Dolls.	Cts.
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RECEIVABLE.

DECEMBER

MEMORANDA.

Date.

Dolls. Cts.

ADDRESSES.

NAME. Miss M. A. Johnson.
STREET, No. 36 Boynton St.
CITY. Worcester

NAME. Mrs Anna P. Cook
STREET, No. 23 West 18th St.
CITY.

NAME. Kate & Howard
STREET, No.
CITY.

NAME.
STREET, No.
CITY.

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Kate Brown

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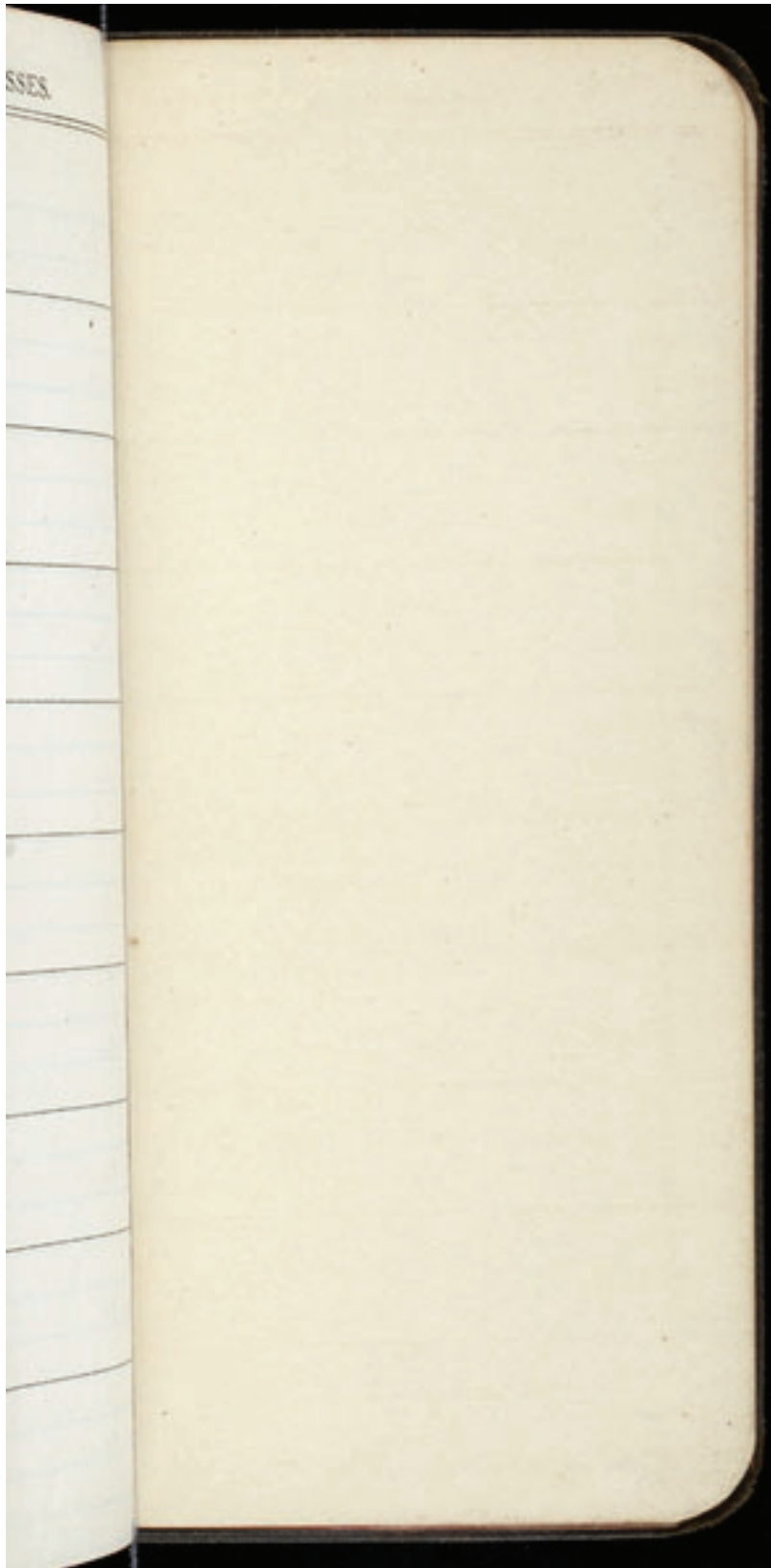
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