

ASTRONOMICAL INFORMATION, ETC.

CHRONOLOGICAL CYCLES.

Almanical Letter	B Julian Period	6583
	28 Solar Cycle	3
Lunar Cycle, or Golden Number	Roman Indiction	13
9		

SIGNS OF THE PLANETS.

The Sun. ☽	⊕ or ☾ The Earth. ☿ Saturn.
The Moon. ☽	☽ Mars. ☿ Uranus.
Mercury. ☽	☽ Jupiter. ☿ Neptune.
Venus. ☽	

SIGNS OF THE ZODIAC.

T Aries. ☽	Leo. ☽	Sagittarius.
Taurus. ☽	Virgo. ☽	Capricornus.
G Gemini. ☽	Libra. ☽	Aquarius.
C Cancer. ☽	Scorpio. ☽	Pisces.

ASPECTS.

Conjunction, or having the same Longitude or Right Ascension.
Quadrature, or differing 90° in " " "
Opposition, or differing 180° in " " "

ABBREVIATIONS.

Ascending Node.	° Degrees.
Descending Node.	' Minutes of Arc.
N. North.	S. South.
E. East.	W. West.

Hours.
Minutes of Time.

ECLIPSES IN 1870.

In the year 1870 there will be six eclipses,—four of the Sun and two of the Moon.

I. A total eclipse of the Moon, January 17, 1870. The penumbral phase is partly visible throughout the United States. The partial phase is partly visible throughout the Western States. The total phase is partly visible in Colorado, Utah, etc., and wholly visible in the Pacific States.

	Washington Time.	Chicago Time.	Salt Lake Time.	San Francisco Time.
	h. m.	h. m.	h. m.	h. m.
Moon enters Penumbra	6 47.3 A.M.	6 5.1 A.M.	4 23.9 A.M.	3 45.9 A.M.
Moon enters Shadow	7 48.3 A.M.	7 6.1 A.M.	5 29.9 A.M.	4 46.9 A.M.
Total phase begins	8 48.5 A.M.	8 6.3 A.M.	6 29.1 A.M.	5 47.1 A.M.
Middle of total phase	9 38.1 A.M.	7 55.9 A.M.	7 13.7 A.M.	6 33.7 A.M.
Total phase ends	10 27.7 A.M.	9 45.5 A.M.	8 8.3 A.M.	7 26.3 A.M.
Moon leaves Shadow	11 27.9 A.M.	10 9.5 A.M.	8 26.5 A.M.	
Moon leaves Penumbra	0 29.0 P.M.	11 45.8 A.M.	10 9.6 A.M.	9 27.7 A.M.

Magnitude of eclipse = 1.64 (Moon's diameter = 1).

II. A partial eclipse of the Sun, January 30, 1870. Visible only in the Antarctic region.

III. A partial eclipse of the Sun, June 28, 1870. Visible at Sydney and at Melbourne, in Australia, and in New Zealand. Invisible in America. Magnitude of the eclipse = 0.633 (Sun's diameter = 1).

IV. A total eclipse of the Moon, July 12, 1870. More or less of the penumbral phase is visible east of the Mississippi River, and part of the partial phase is visible in Eastern New England.

	Chicago Time.	Washington Time.	Boston Time.
	h. m.	h. m.	h. m.
Total phase ends	5 24.3 P.M.	6 10.5 P.M.	6 40.2 P.M.
Moon leaves Shadow	6 34.0 P.M.	7 16.4 P.M.	7 39.9 P.M.
Moon leaves Penumbra	7 32.4 P.M.	8 14.6 P.M.	8 33.3 P.M.

V. A partial eclipse of the Sun, July 27, 1870. Visible in Northern Alaska. Magnitude of greatest eclipse = 0.075 (Sun's diameter = 1).

VI. A total eclipse of the Sun, December 22, 1870. In the United States, only a very small portion of the penumbral phase is visible just after sunrise in the northeastern extremity of Maine. The penumbral phase is visible over the North Atlantic Ocean, Europe, Eastern Asia, and Northern Africa. The total phase is visible in Southern Spain, the southeastern extremity of Italy, in Greece, and in Turkey. The eclipse is total at apparent noon in longitude 5° 4' 8" east of Greenwich, or 17° 2' 3" west of Ferro, and in latitude 36° 26' 8" north. At this point the duration of totality is two minutes.

TIDES.

To find the time of high tide; enter the following table* at the

* From the Coast Survey Report for 1864.

top with the name of the place, and at the side with the hour of the moon's southing found in the calendar, and in the body of the table will be found a number which, added to the time of the moon's southing, will give the time of high tide.

Time of Moon's Southing:	Boston, Mass.	New York, N.Y.	Philadelphia, Penn.	Old Pt. Comfort, Va.	Baltimore, Md.	Smithville, N.C.	Charleston, S.C.	Fort Pulaski, Savannah, Ga.	Key West, Fla.	San Francisco, Cal.
0 0	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
0 30	11 33	8 20	1 23	8 55	6 47	11 23	11 23	11 33	12 5	11 59
1 0	11 33	8 18	1 23	8 49	6 42	11 23	11 23	11 33	12 5	11 59
1 30	11 23	8 15	1 21	8 44	6 37	11 27	11 19	11 33	12 5	11 59
2 0	11 23	8 10	1 21	8 40	6 31	11 21	11 15	11 33	12 5	11 59
2 30	11 16	8 6	1 14	8 33	6 26	11 16	11 0	11 41	12 5	11 59
3 0	11 13	8 5	1 11	8 22	6 21	11 12	11 0	11 36	12 5	11 59
3 30	11 10	8 52	1 8	8 13	6 17	11 8	11 0	11 57	12 5	11 59
4 0	11 7	8 52	1 6	8 20	6 11	11 2	11 0	11 53	12 5	11 59
4 30	11 6	8 52	1 3	8 21	6 10	11 3	11 0	11 46	12 5	11 59
5 0	11 6	7 53	0 59	8 23	6 10	11 4	11 0	11 53	12 5	11 59
5 30	11 9	7 56	0 59	8 23	6 13	11 5	11 0	12 3	12 5	11 59
6 0	11 13	7 53	1 59	8 32	6 19	12 0	11 0	12 22	12 11	11 59
6 30	11 19	8 5	1	8 33	6 25	12 1	11 0	12 30	12 11	11 59
7 0	11 25	8 11	1	8 48	6 32	12 17	11 0	12 23	12 23	11 59
7 30	8 17	15		8 53	6 33	12 22	10 0	12 23	12 23	11 59
8 0	8 23	1 23	9 4	6 44	7 22	12 28	10 0	12 24	12 24	11 59
8 30	11 43	8 27	1 29	9 8	6 49	7 33	7 34	10 0	12 37	11 59
9 0	11 47	8 32	1 34	9 10	6 52	7 37	7 38	10 0	12 38	11 59
9 30	11 48	8 34	1 39	9 12	6 54	7 39	7 50	10 0	12 34	11 59
10 0	11 49	8 35	1 42	9 10	6 53	7 40	7 43	9 59	12 30	11 59
10 30	11 48	8 34	1 45	9 8	6 52	7 40	7 41	9 56	12 24	11 59
11 0	11 47	8 31	1 41	9 4	6 50	7 38	7 41	9 48	12 17	11 59
11 30	11 43	8 25	1 37	9 2	6 48	7 30	7 41	9 40	12 9	11 59

PLANETS.

Mercury will be visible about the 10th of May, after sunset, and about the 20th of October, before sunrise. On the 10th of May it may be distinguished from Jupiter by being farther from the sun.

Venus will be an evening star until about the 22d of February, attaining its greatest brilliancy about the 17th of January. After the 23d of February it will be a morning star until the 7th of December, attaining its greatest brilliancy on the 30th of March. After the 8th of December it will again be an evening star.

Mars, which in January will be visible after sunset, will begin to rise before the sun during the second week of April, and will continue to rise earlier and earlier throughout the year, without ever reaching opposition and its maximum brilliancy. Upon the last day of December it will rise at about 11h. 10m. p.m.

Jupiter will be seen in the evening, from the 1st of January to

the latter part of May. It will at first be seen in the constellation Aries, and after the 4th of January will move into Taurus, passing between the Pleiades and the red star Aldebaran. On the 1st of January it will set at about 2h. 50m. p.m., on the 1st of March, at 11h. 20m. p.m., on the 1st of April, at 9h. 45m. p.m., on the 1st of May at 8h. 20m. p.m., and on the 1st of June at 7h. 0m. p.m. Early in June Jupiter will begin to be a morning star, and will rise earlier and earlier throughout the year, reaching its quadrature on the 17th of September, and opposition on the 12th of December. During the whole of this time it will be in the constellation Taurus. It will move away from Aldebaran until the 14th of October, when it will be stationary, and after that it will slowly approach that red star again.

Saturn will throughout the year be between the constellations Scorpio and Sagittarius, but nearer to the latter and between the two branches of the milky-way, or in the westernmost one. At the beginning of the year it will be a morning star. On the 18th of March it will be in quadrature, and about the middle of April will begin to rise before midnight. On the 16th of June it will come to opposition, after which it will be visible longer before midnight than after. It will again reach its quadrature on the 14th of September, after which it may be regarded as an evening star. On the 22d of December it will be in conjunction with the sun. This planet will twice be stationary among the stars, namely, on the 6th of April, and on the 26th of August.

The greatest elevation of the earth above the plane of the ring which will occur in fifteen years takes place about the first of October, 1870. The planet will, on the whole, be most favorably situated for observation during July, August, and

This planet will twice be stationary among the stars; namely, on the 6th of April, and on the 26th of August.

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Uranus will come to opposition on the 9th of January, and Neptune will be in the same situation on the 13th of October.



WITH ILLUSTRATIONS BY

DARLEY, GILBERT, EYTINGE, BROWN, FENN, DU MAURIER, HOMER, FREDERICKS, HENNESSY, HOPPIN, PERKINS, AND OTHERS.

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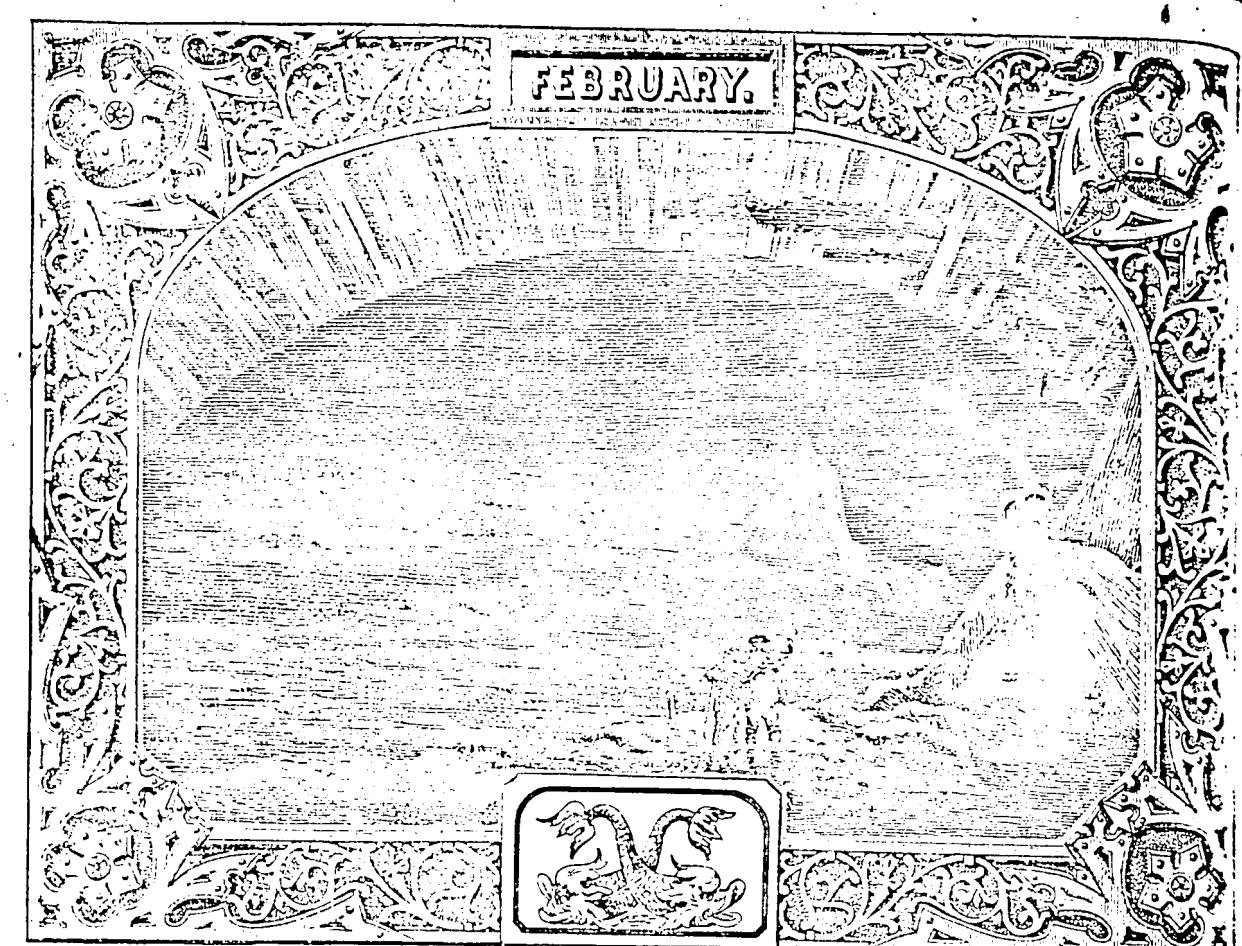
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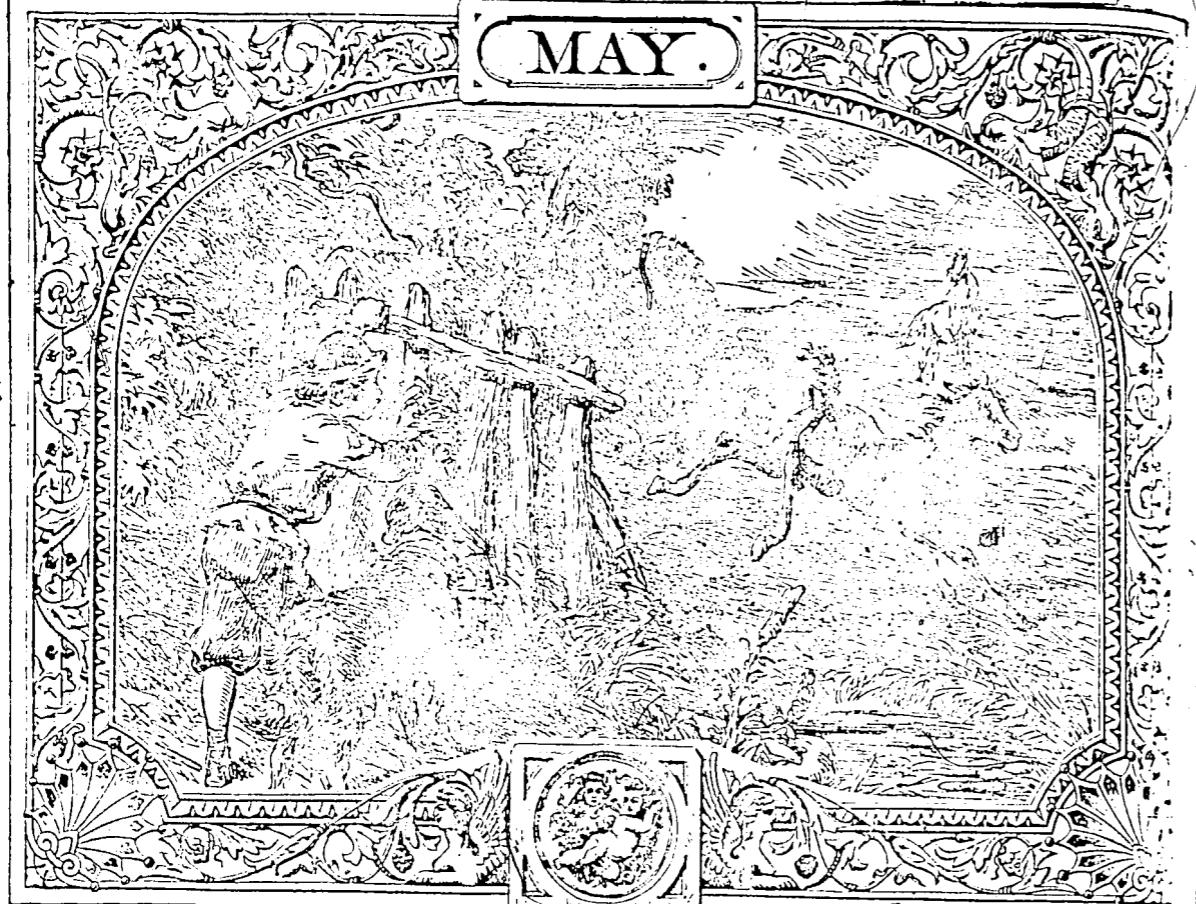
Day of Year.	Day of Month.	Day of Week.	THE SUN.			THE MOON.			PHENOMENA.			SUNDAYS, HOLY DAYS, and ANNIVERSARIES.												
			Latitude of BOSTON.	Latitude of NEW YORK.	Latitude of WASHINGTON.	WASH- INGTON.	BOS- TON.	NEW YORK.	WASH- INGTON.	SAN FRAN.	Rises.	Sets.	Rises.	Sets.	Age at Moon.	South.	Rises.	Sets.	Age at Moon.	South.	Rises.	Sets.	Age at Moon.	South.
1	1 Sat.	7 29 4 39 7 23 4 45 7 19 4 49	29 6 11 47	19 50	0 7 p.m. 43	5 33	5 33	5 43	5 53	—	2d, 7 P.M. ☽ ♀ .. ♀ - 2° 30'	—	—	—	—	—	—	—	—	—	—	—	—	
2	2 S.	29 40 23 46 19 51	29 6 11 47	19 50	0 7 p.m. 43	5 33	5 33	5 43	5 53	—	3d, 1 A.M. ☽ ♀ .. ☽ - 1° 8'	—	—	—	—	—	—	—	—	—	—	—	—	
3	3 Mo.	29 41 23 46 19 51	29 6 11 47	19 50	1 7 1 37	6 34	6 33	6 43	6 52	—	5th, 12 M. ☽ ♀ .. ♀ + 2° 52'	—	—	—	—	—	—	—	—	—	—	—	—	
4	4 Tu.	29 42 23 47 19 52	29 6 11 47	19 50	2 7 2 28	7 36	7 40	7 44	7 52	—	5th, 11 A.M. ♀ stationary.	—	—	—	—	—	—	—	—	—	—	—	—	
5	5 Wd.	29 43 23 48 19 53	29 6 11 47	19 50	3 7 3 16	8 38	8 40	8 43	8 54	—	6th, 5 P.M. ☽ ♀ .. ☽ - 0° 52'	—	—	—	—	—	—	—	—	—	—	—	—	
6	6 Th.	29 44 23 49 19 54	29 6 11 47	19 50	4 7 4 1	9 38	9 40	9 42	9 49	—	7th, 1 A.M. ☐ ☐ ☽	—	—	—	—	—	—	—	—	—	—	—	—	
7	7 Fri.	29 45 23 50 19 55	29 6 11 47	19 50	5 7 4 44	10 37	10 38	10 39	10 45	—	8th, 9 A.M. ☽ ♀ .. ♀ + 4° 21'	—	—	—	—	—	—	—	—	—	—	—	—	
8	8 Sat.	29 46 23 51 19 56	29 6 11 47	19 50	6 7 5 25	11 35	11 35	11 35	11 41	—	9th, 7 A.M. ☽'s Apogee, 9th, 7 A.M.	—	—	—	—	—	—	—	—	—	—	—	—	
9	9 S.	29 47 23 52 19 57	29 6 11 47	19 50	7 7 6 7	mor.	mor.	mor.	mor.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	10 Mo.	29 48 23 53 19 58	29 6 11 47	19 50	8 7 6 49	33	33	32	36	—	10th, 2 A.M. ☽ ☽ ☽	—	—	—	—	—	—	—	—	—	—	—	—	
11	11 Tu.	29 49 23 54 19 59	29 6 11 47	19 50	9 7 7 32	1 32	1 30	1 28	1 32	—	11th, 9 A.M. ☽ ♀ .. ☽ + 4° 21'	—	—	—	—	—	—	—	—	—	—	—	—	
12	12 Wd.	29 50 23 55 19 60	29 6 11 47	19 50	10 7 8 17	2 31	2 28	2 25	2 29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
13	13 Th.	29 51 22 57 18 61	29 6 11 47	19 50	11 7 9 6	3 32	3 29	3 25	3 29	—	16th, ☽ eclipsed, vis. at Wash.	—	—	—	—	—	—	—	—	—	—	—	—	
14	14 Fri.	29 52 22 58 18 62	29 6 11 47	19 50	12 7 9 57	4 34	4 29	4 25	4 28	—	16th, 8 P.M. ☽ ☽ ☽ + 1° 18'	—	—	—	—	—	—	—	—	—	—	—	—	
15	15 Sat.	29 53 22 59 18 63	29 6 11 47	19 50	13 7 10 52	5 34	5 29	5 24	5 26	—	16th, ☽ greatest brilliancy.	—	—	—	—	—	—	—	—	—	—	—	—	
16	16 S.	29 54 21 55 18 64	29 6 11 47	19 50	14 7 11 48	rises.	rises.	rises.	rises.	—	16th, ☽ great. hel. L. S.	—	—	—	—	—	—	—	—	—	—	—	—	
17	17 Mo.	29 55 21 56 18 65	29 6 11 47	19 50	15 7 16 5	mor.	5 10	5 14	5 19	5 29	17th, ☽ at greatest brilliancy.	—	—	—	—	—	—	—	—	—	—	—	—	
18	18 Tu.	29 56 20 57 18 66	29 6 11 47	19 50	16 6 16 7	45	6 18	6 22	6 26	6 35	18th, ☽ greatest elon. E. 18° 41'	—	—	—	—	—	—	—	—	—	—	—	—	
19	19 Wd.	29 57 20 58 18 67	29 6 11 47	19 50	17 7 17 7	1 41	7 28	7 32	7 36	7 44	18th, 5 P.M. ☽ great. hel. L. S.	—	—	—	—	—	—	—	—	—	—	—	—	
20	20 Th.	29 58 19 59 18 68	29 6 11 47	19 50	18 7 18 7	2 36	8 42	8 43	8 46	8 54	19th, 12 M. ☽ in ♡	—	—	—	—	—	—	—	—	—	—	—	—	
21	21 Fri.	29 59 19 60 18 69	29 6 11 47	19 50	19 8 19 7	3 29	9 54	9 55	10 2	—	19th, 21st ☽'s Perigee 21st 8 A.M.	—	—	—	—	—	—	—	—	—	—	—	—	
22	22 Sat.	29 60 19 61 18 70	29 6 11 47	19 50	20 7 4 21	11 5 11 5	11 5 11 5	11 5 11 5	11 5 11 5	—	Agnes.	—	—	—	—	—	—	—	—	—	—	—	—	
23	23 S.	29 61 19 62 18 71	29 6 11 47	19 50	21 7 5 12	12 22	7 6 3	16 15	14 19	19th, 24th, 2 A.M. ☽ in Perihelion.	—	—	—	—	—	—	—	—	—	—	—	—	—	
24	24 Mo.	29 62 19 63 18 72	29 6 11 47	19 50	22 7 6 3	13 22	7 6 3	16 15	14 19	19th, 24th, 2 A.M. ☽ in Perihelion.	—	—	—	—	—	—	—	—	—	—	—	—	—	
25	25 Tu.	29 63 19 64 18 73	29 6 11 47	19 50	23 7 6 55	1 27	1 24	1 22	1 27	1 27	24th, 12 M. ☽ stationary.	—	—	—	—	—	—	—	—	—	—	—	—	
26	26 Wd.	29 64 19 65 18 74	29 6 11 47	19 50	24 7 7 48	2 37	2 33	2 29	2 34	2 34	Conversion of Paul.	—	—	—	—	—	—	—	—	—	—	—	—	
27	27 Th.	29 65 19 66 18 75	29 6 11 47	19 50	25 7 8 42	3 44	3 40	3 35	3 40	27th, 9 P.M. ☽ h ☽ .. h - 1° 43'	—	—	—	—	—	—	—	—	—	—	—	—	—	
28	28 Fri.	29 66 19 67 18 76	29 6 11 47	19 50	26 7 9 38	4 48	4 43	4 38	4 42	28th, 5 P.M. ☽ ☽ .. ☽ + 3° 52'	—	—	—	—	—	—	—	—	—	—	—	—	—	
29	29 Sat.	29 67 19 68 18 77	29 6 11 47	19 50	27 7 10 33	5 46	5 41	5 36	5 39	30th, ☽ eclipsed, invis. at W.	—	—	—	—	—	—	—	—	—	—	—	—	—	
30	30 S.	29 68 19 69 18 78	29 6 11 47	19 50	28 7 11 27	sets.	sets.	sets.	sets.	31st, 7 A.M. ☽ stationary.	—	—	—	—	—	—	—	—	—	—	—	—	—	
31	31 Mo.	29 69 19 70 18 79	29 6 11 47	19 50	29 7 12 21	5 21	5 25	5 30	5 33	31st, 5 P.M. ☽ ☽ .. ☽ + 5° 1'	—	4th Sun. after Epiphany.	—	—	—	—	—	—	—	—	—	—	—	—

MARCH.

Day of Year	Day of Month	THE SUN.		THE MOON.		PHENOMENA.		SUNDAYS, HOLY DAYS, and ANNIVERSARIES.		
		Latitude of BOSTON.	Latitude of NEW YORK.	WASH. TON.	WASH. INGTON.	BOS. TON.	NEW YORK.	SAN FRAN.		
60	1 Tu.	6 35 5 51	6 33 5 52	6 32 5 53	20 1 11 49	5 18	5 21	5 23	5 30	1st, 12 P.M. ♀ gr. hel. Lat. N
61	2 Wd.	34 52	32 53	31 54	0 8 P.M.	34	6 14	6 16	6 25	2d, 6 A.M. ♂ ☽ .. ☽ +2° 54'
62	3 Th.	32 53	30 54	29 55	1 8	1 17	7 14	7 15	7 21	
63	4 Fri.	30 54	29 55	28 56	2 8	1 58	8 12	8 12	8 17	5th, 1 A.M. ♂ ☽ .. ☽ +3° 41'
64	5 Sat.	29 55	27 56	26 57	3 8	2 40	9 10	9 9	9 12	5th, 8 P.M. ♂'s Apogee.
65	6 S.	27 56	26 57	25 58	4 8	3 22	10 9	10 8	10 10	6th, 12 P.M. ♂ ☽ .. ☽ +4° 13'
66	7 Mo.	26 58	25 59	23 59	5 8	4 41	11 7	11 4	11 11	[Quadrature]
67	8 Tu.	24 59	23 6 0	22 6 0	6 8	4 49	mor.	11 59	mor.	1st Sunday in L.
68	9 Wd.	23 6 0	21 1	21 1	7 8	5 36	6	3 mor.	2	Perpetua.
69	10 Th.	21 1	20 2	19 2	8 8	6 26	1 3	1 1	56 1 0	9th, 2 A.M. ♀ in Aphelion.
70	11 Fri.	19 2	18 3	18 3	9 8	7 18	2 2	1 58	1 53 1 56	10th, 6 A.M. ♂ ♀ .. ♀ -9° 51'
71	12 Sat.	17 3	17 4	16 4	10 8	8 12	2 57	2 53	2 48 2 51	12th, 1 P.M. ♂ ☽ ☽
72	13 S.	15 4	15 5	14 5	11 8	9 8	3 48	3 44	3 39 3 43	12th, 1 P.M. ♂ ☽ .. ☽ +1° 16'
73	14 Mo.	14 6	13 6	13 6	12 8	10 5	4 36	4 32	4 27 4 32	Gregory.
74	15 Tu.	12 7	12 7	11 7	13 8	11 1	5 19	5 16	5 12 5 17	2d Sunday in L.
75	16 Wd.	10 8	10 8	10 8	14 8	11 56	rises.	rises.	rises.	
76	17 Th.	9 9	9 9	8 9	15 8	A.M.	6 26	6 26	6 27 6 34	Patrick.
77	18 Fri.	7 10	7 10	7 10	16 8	51	7 42	7 42	7 21 7 47	18th, 6 A.M. ♂'s Perigee.
78	19 Sat.	5 12	5 11	5 11	17 8	1 45	8 59	8 57	8 35 8 59	18th, 8 P.M. ☽ ☽
79	20 S.	3 13	3 12	4 12	18 8	2 40	10 14	10 11	10 8 10 13	* [begins]
80	21 Mo.	1 14	2 14	2 13	19 8	3 36	11 26	11 22	11 18 11 23	20th, 2 P.M. ☽ enters ♀ spring
81	22 Tu.	0 15	0 15	0 14	20 8	4 32	mor.	mor.	mor.	2d Sunday in L.
82	23 Wd.	5 58	16 5 58	16 5 59	15 21 8	5 28	35 31	26 30	23d, 3 P.M. ♂ h ☽ .. h -1° 6'	Benedict.
83	24 Th.	56 17	57 17	57 16	22 8	6 24	1 37	1 32	1 27 1 30	
84	25 Fri.	55 18	55 18	55 17	23 8	7 18	2 32	2 27	2 22 2 25	Annunciation.
85	26 Sat.	53 19	54 19	54 18	24 8	8 11	3 20	3 14	3 10 3 14	1st Sunday in L.
86	27 S.	51 21	52 20	52 19	25 8	9 0	4 0	3 56	3 52 3 56	4th Sunday in L.
87	28 Mo.	49 22	50 21	51 20	26 8	9 47	4 35	4 31	4 27 4 32	28th, 5 A.M. ♂ ♀ ☽ .. ☽ +7° 30'
88	29 Tu.	47 23	48 22	49 21	27 8	10 32	5 5	5 1	4 59 5 5	29th, 0 A.M. ♀ gr. hel. Lat. S.
89	30 Wd.	45 24	46 23	47 22	28 8	11 15	5 32	5 29	5 27 5 34	30th, 1 P.M. ♂ ♀ ☽ .. ☽ +2° 21'
90	31 Th.	45 44	46 25	45 6 24	5 46	6 23	5 57	5 54	5 53 6 2	30th. ♀ at greatest brilliancy.

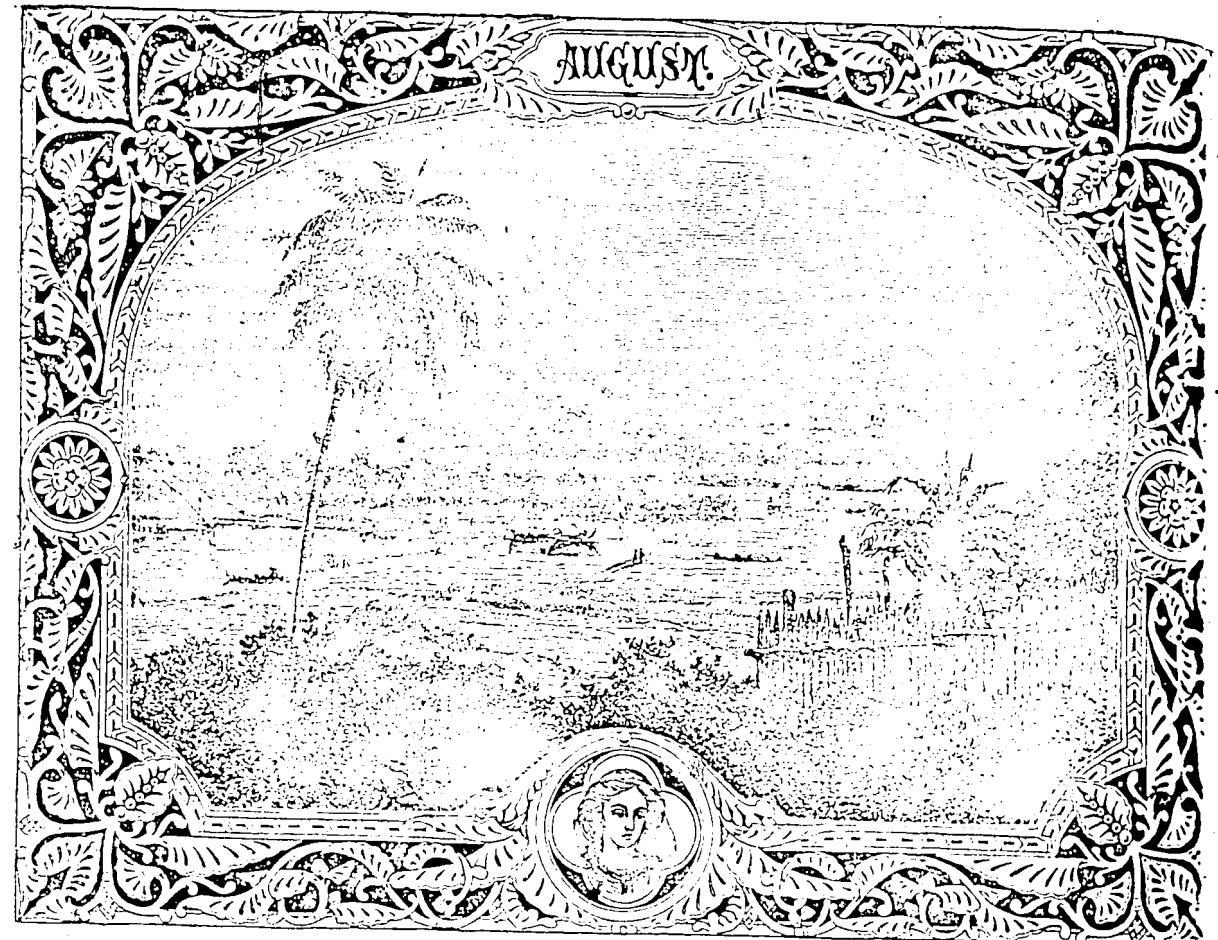
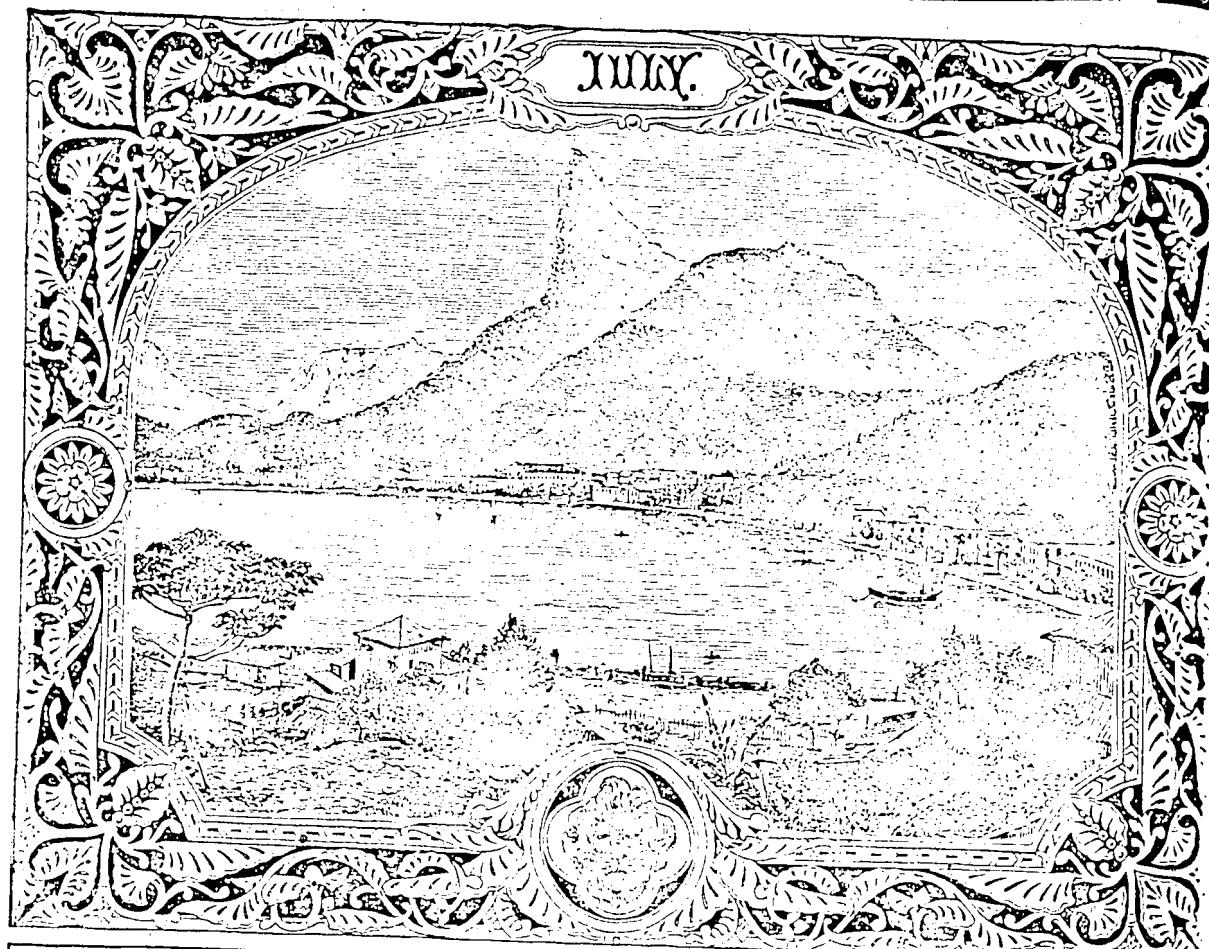
APRIL.

Day of Year	Day of Month	THE SUN.		THE MOON.		PHENOMENA.		SUNDAYS, HOLY DAYS, and ANNIVERSARIES.
		Latitude of BOSTON.	Latitude of NEW YORK.	WASH. TON.	SAN FRAN.			
91	1 Fri.	5 42 6 26	5 44 6 25	5 45 6 24	1 15 P.M.	38	7 3 7 2 7 1 7 6	Washington.
92	2 Sat.	41	27	42 26	43	25	1 15 1 20 8 1 8 0 7 58 8 1	Ash Wednesday, Ow.
93	3 S.	39	28	41 27	42 26	2 15 2 2 9 0 8 58 8 55 8 59	2d, 4 A.M. ☽'s Apogee.	
94	4 Mo.	37	29	39 28	40 27	3 15 2 46 9 59 9 56 9 52 9 56	4th, 6 A.M. ♂ ☽ .. ☽ +3° 53'	
95	5 Tu.	36	30	37 29	38 28	4 15 3 32 10 58 10 54 10 49 10 53		
96	6 Wd.	34	31	36 30	37 28	5 15 4 20 11 56 11 51 11 46 11 49		
97	7 Th.	32	33	34 31	36 29	6 15 5 10 mor. mor. mor. mor.	7th, 4 A.M. ☽ stationary.	
98	8 Fri.	31	34	32 32	34 30	7 15 6 2 52 46 41 44	7th, 7 P.M. ☽ ☽	
99	9 Sat.	29	35	31 33	32 31	8 15 6 56 1 44 1 38 1 33 1 36	7th, 10 P.M. ♂ ♀ ☽ .. ☽ -0° 50'	
100	10 S.	27	36	29 34	31 32	9 15 7 50 2 31 2 25 2 21 2 25	8th, 9 P.M. ♂ ☽ .. ☽ +1° 1'	
101	11 Mo.	25	37	28 35	29 33	10 15 8 45 3 13 3 9 3 4 3 9	9th, 3 A.M. ☽ ☽	
102	12 Tu.	24	38	26 36	28 34	11 15 9 39 3 51 3 48 4 45 3 49	11th, 2 P.M. ♂ ♀ ☽ .. ☽ +0° 42'	
103	13 Wd.	22	40	24 37	26 35	12 15 10 33 4 26 4 24 5 22 4 28	13th, 10 A.M. ♂ ☽ ☽ sup.	
104	14 Th.	20	41	23 38	25 36	13 15 11 28 rises. rises. rises.	Surrender of Ft. Sumter.	
105	15 Fri.	19	42	21 39	23 37	14 15 A.M. 6 30 6 29 6 28 6 24	Death of Lincoln.	
106	16 Sat.	17	43	20 40	22 38	15 15 23 7 48 7 45 7 43 7 45	Good Friday.	
107	17 S.	15	44	18 41	21 39	16 15 1 19 9 4 9 0 8 57 9 2	Easter Day.	
108	18 Mo.	14	45	16 42	19 40	17 15 2 17 10 18 10 13 10 9 10 13	Battle of Cerro Gordo.	
109	19 Tu.	13	46	15 43	18 41	18 15 3 16 11 25 11 16 11 11 11 16	Alphege. Battle of Cerro Gordo.	
110	20 Wd.	11	47	14 44	16 42	19 15 4 14 mor. mor. mor. mor.		
111	21 Th.	9	48	13 45	15 43	20 15 5 11 26 19 15 19		
112	22 Fri.	8	49	11 46	14 44	21 15 6 6 1 18 1 12 1 9 1 13	22d, 1 A.M. ♀ in Perihelion.	
113	23 Sat.	6	51	10 47	12 45	22 15 6 57 2 1 1 56 1 53 1 58	George Washington.	
114	24 S.	5	52	8 48	11 46	23 15 7 46 2 38 2 34 2 32 2 36	1st Sunday after Easter.	
115	25 Mo.	3	53	7 49	9 47	24 15 8 31 3 8 3 5 3 3 3 8	Mark.	
116	26 Tu.	2	54	5 50	8 48	25 15 9 14 3 35 3 33 3 32 3 37		
117	27 Wd.	1	55	4 51	7 49	26 15 9 56 4 0 3 50 3 59 4 5 27th, 1 A.M. ♀ in ♀		
118	28 Th.	4 59	56	3 52	5 50	27 15 10 37 4 26 4 26 4 32		
119	29 Fri.	58	57	2 53	4 51	28 15 11 19 4 51 4 51 4 53 5 0	28th, 6 P.M. ♂ ☽ .. ☽ +3° 39'	
120	30 Sat.	4 56	6 58	5 0 6 54	5 3 6 52	29 15 P.M. 5 16 5 17 5 20 5 27	29th, 11 A.M. ♂ ☽ .. ☽ +4° 48'	



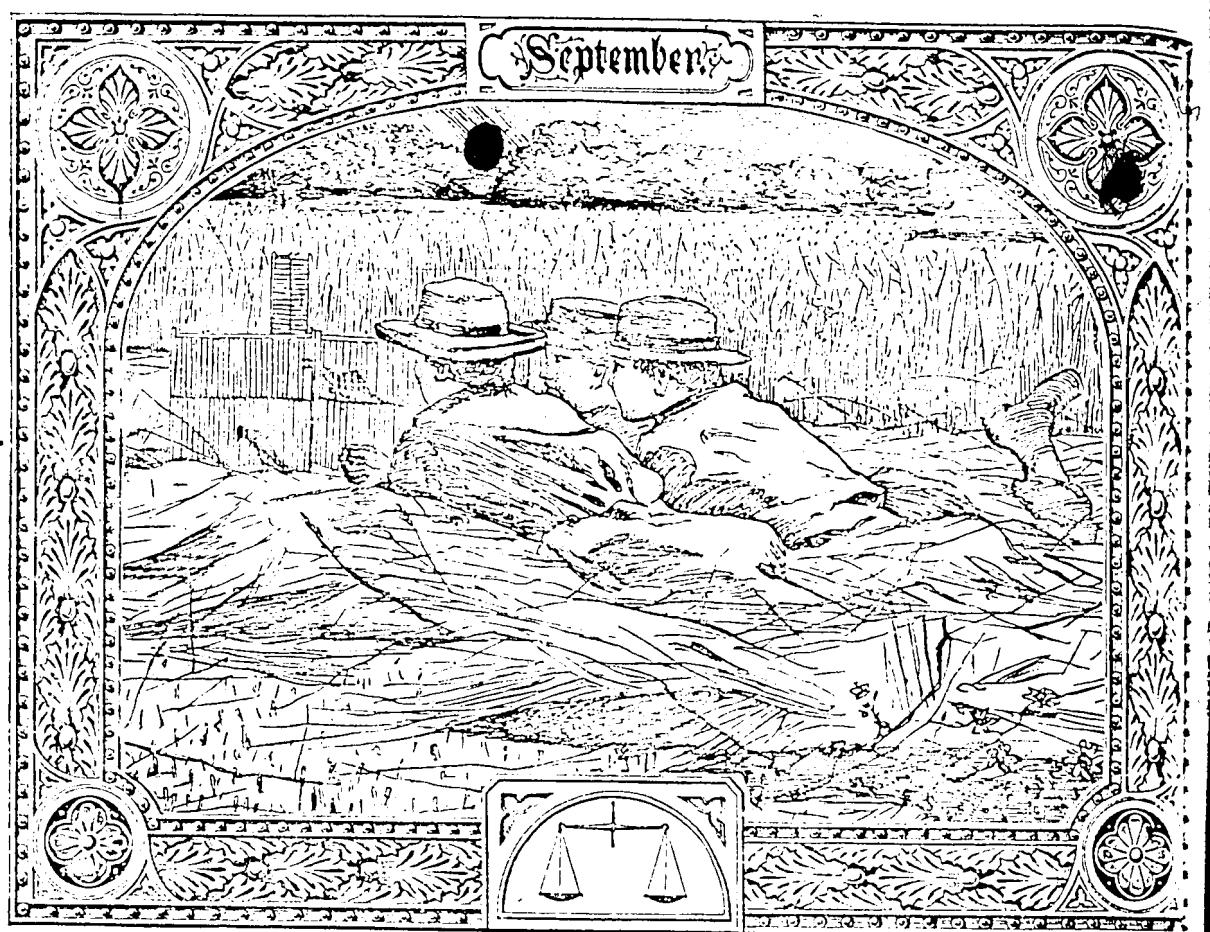
Day of Year	Day of Month	Day of Week	THE SUN.						THE MOON.						PHENOMENA.						SUNDAYS, HOLY DAYS, and ANNIVERSARIES																	
			Latitude of BOSTON.			Latitude of NEW YORK.			WASHING-TON.			BOS-TON.			NEW-YORK.			WASH-ING-TON.																				
			Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.																		
121	1	S.	4 55	6 59	4 59	6 55	5 2	6 52	0 23	P.M. 47	7 54	7 50	7 47	7 50	1st, 4 A.M. ☽ ♀ 4.. ♀ +2° 54'	2d Sunday after E.	WASHING-TON.	4 32	7 24	4 36	7 20	2 7	1 55	9 32	9 27	9 31	[Philip and Ju-											
122	2	Mo.	54	7	0	58	56	1	53	1 23	1 29	8 53	8 49	8 45	8 48	2d, 1 A.M. ☽ ♀ 4.. ♀ +3° 30'																						
123	3	Tu.	53	2	57	57	0	54	2 23	2 17	9 51	9 47	9 42	9 45	2d, 3 A.M. ☽ ♀ 4.. ♀ +6° 24'	Intention of the Gra-																						
124	4	Wd.	51	3	55	58	4 58	55	3 23	3 8	10 46	10 43	10 37	10 40	2d, 9 A.M. ♀ gr. hel. Lat. N.																							
125	5	Th.	50	4	54	59	57	56	4 23	3 58	11 41	11 35	11 30	11 33	4th, 1 P.M. ♀ gr. elon. W. 46° 5'																							
126	6	Fri.	49	5	53	7	0	56	57	5 23	4 50	mor.	mor.	mor.	mor.	6th, 5 A.M. ☽ ♂ 4.. ♂ +0° 43'	Johan. a Port. Lan-																					
127	7	Sat.	47	6	52	1	55	58	6 23	5 43	27	22	17	21																								
128	8	S.	46	7	50	3	54	59	7 23	6 36	1 10	1 6	1 1	1 6		3d Sunday after E.																						
129	9	Mo.	45	8	49	4	53	7	0	8 23	7 25	1 49	1 46	1 42	1 47																							
130	10	Tu.	44	9	48	5	52	1	9 23	2 24	2 22	2 19	2 25																									
131	11	Wd.	42	10	47	6	51	2	10 23	9 13	2 56	2 55	2 53	3 0	11th, 5 A.M. ♀ gr. elon. E. 21° 42'																							
132	12	Th.	41	11	46	7	50	3	11 23	10	6	3 27	3 27	3 27	3 34																							
133	13	Fri.	40	12	45	8	49	4	12 23	11	1	3 58	3 59	4 0	4 8																							
134	14	Sat.	39	13	44	9	48	5	13 23	11	58	rises.	rises.	rises.	rises.	14th, 3 A.M. ☽'s Perigee.																						
135	15	S.	38	14	43	10	47	6	14 23	A.M.	7 50	7 46	7 42	7 47		4th Sunday after E.																						
136	16	Mo.	37	15	42	11	47	6	15 23	57	9 7	9 2	8 56	9 1																								
137	17	Tu.	36	16	42	12	46	7	16 23	1 57	10 13	10 8	10 2 10	6	17th, 7 A.M. ☽ h 4.. h -0° 44'																							
138	18	Wd.	35	17	41	13	45	8	17 23	2 57	11 10	11 5	11 0 11	4																								
139	19	Th.	34	18	39	13	44	9	18 23	3 55	mor.	11 58	11 53	11 56		Dunstan.																						
140	20	Fri.	33	19	39	14	43	10	19 23	4 50	3	mor.	mor.	mor.	mor.																							
141	21	Sat.	32	20	38	15	43	11	20 23	5 41	40	34	32	37																								
142	22	S.	32	21	37	16	42	12	21 23	6 28	1 12	1 7	1 6	1 11	23d, 10 P.M. ♀ stationary.	5th Sunday after E.																						
143	23	Mo.	31	22	37	17	41	13	22 23	7 13	1 37	1 36	1 36	1 40	24th, 9 P.M. ☽ 4 ☽																							
144	24	Tu.	30	23	36	18	40	13	23 23	7 55	2 6	2 4	2 3	2 10	25th, 9 P.M. ♀ in ♀																							
145	25	Wd.	29	24	35	19	39	14	24 23	8 36	2 32	2 31	2 31	2 38	26th, 0 A.M. ☽ ♀ 4.. ♀ +3° 19'																							
146	26	Th.	29	25	35	19	39	15	25 23	9 17	2 55	2 56	2 56	3 4	26th, 2 A.M. ☽ 4.. ☽ +3° 47'	Ascension. Ascen-																						
147	27	Fri.	28	26	34	20	38	16	26 23	9 59	3 19	3 21	3 22	3 30	26th, 3 P.M. ☽'s Apogee.																							
148	28	Sat.	28	27	33	21	38	16	27 23	10 42	3 45	3 48	3 50	3 59	26th, 5 P.M. ☽ ♀ 4.. ♀ -0° 29'																							
149	29	S.	27	28	33	22	37	17	28 23	11 27	sets.	sets.	sets.	sets.	28th, 2 P.M. ☽ ♂ 4.. ♂ +4° 27'	1st Sun. after Ascen-																						
150	30	Mo.	26	29	32	23	37	18	0 7	P.M. 14	7 46	7 42	7 37	7 40	29th, 8 P.M. ☽ 4.. 4.. +3° 6'																							
151	31	Tu.	4	26	7	29	4	32	7 23	4 36	7 19	1 7	1 3	8 44	8 38	8 33	8 36	30th, 7 P.M. ☽ ♀ 4.. ♀ +1° 27'																				

Day of Year	Day of Month	Day of Week	THE SUN.						THE MOON.						PHENOMENA.						SUNDAYS, HOLY DAYS, and ANNIVERSARIES
Latitude of BOSTON.			Latitude of NEW YORK.</																		

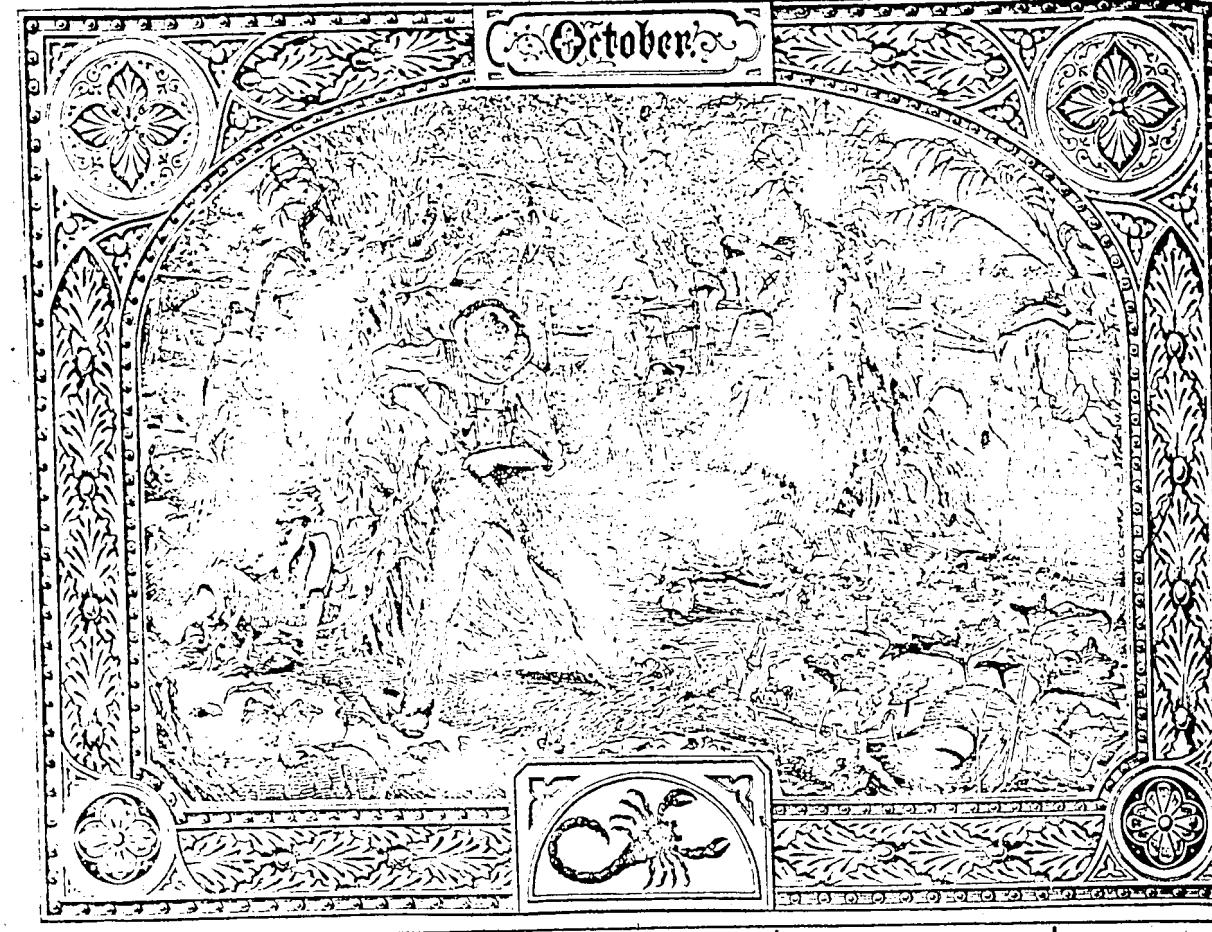


Day of Year	Day of Month	Day of Week	THE SUN.				THE MOON.				PHENOMENA.				SUNDAYS, HOLY DAYS, and ANNIVERSARIES.	
			Latitude of BOSTON.		Latitude of NEW YORK.		WASHINGTON.		WASHINGTON.		BOSTON.		NEW YORK.			
			Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	h.m.	h.m.	h.m.	h.m.	h.m.	h.m.		
182	1	Fri.	4 26	7 41	4 33	7 34	4 38	7 30	2 18	2 20	9 52	9 48	9 44	9 48	1st, 8 P.M. ☽ in Apogee.	
183	2	Sat.	27	41	33	34	38	29	3 18	3 21	10 30	10 27	10 24	10 27	Visitation of Mary.	
184	3	S.	27	41	34	34	39	29	4 18	4 12	11 2 11	0 10 58	11 3		3d Sunday after Trinity.	
185	4	Mo.	28	40	34	34	39	29	5 18	5 2	11 32	11 31	11 30	11 37	Translation of Manu.	
186	5	Tu.	28	40	35	33	40	29	6 18	5 52	mor.	mor.	mor.	mor.	Declaration of Law [pendent]	
187	6	Wd.	29	40	36	33	40	29	7 18	6 43	1	1	1	8		
188	7	Th.	30	39	36	33	41	29	8 18	7 34	29	30	32	40		
189	8	Fri.	30	39	37	33	41	28	9 18	8 28	1 2	1 5	1 7	1 16	8th, 10 P.M. ☉'s Perigee.	
190	9	Sat.	31	38	37	32	42	28	10 18	9 25	1 39	1 43	1 46	1 55		
191	10	S.	32	38	38	32	43	27	11 18	10 23	2 21	2 25	2 30	2 40	10th, 8 P.M. ☉ h ☉..h—1°4'	
192	11	Mo.	33	37	39	31	43	27	12 18	11 23	rises.	rises.	rises.	rises.	4th Sun. after Trinity	
193	12	Tu.	34	37	40	31	44	27	13 18	A.M.	7 37	7 32	7 26	7 26	12th, ☉ eclipsed, invis. at W.	
194	13	Wd.	34	36	40	30	45	26	14 18	21	8 31	8 26	8 20	8 20	13th, 2 P.M. ☉ ♀..♀—1°7'	
195	14	Th.	35	36	41	30	45	25	15 18	1 18	9 7	9 3	8 59	9 3	14th, 7 A.M. ☐ ♀	
196	15	Fri.	36	35	42	29	46	25	16 18	2 10	9 41	9 38	9 35	9 40	14th, 7 P.M. ☉ ☉	
197	16	Sat.	37	34	43	28	47	24	17 18	2 59	10 11	10 9 10	6	10 43	Siwthun.	
198	17	S.	38	34	43	28	48	24	18 18	3 45	10 37	10 36	10 35	10 41	6th Sun. after Trinity	
199	18	Mo.	39	38	44	27	48	23	19 18	4 28	11 6 11	6 11	6 11	8	19th, 1 A.M. ☉ in Perihelion.	
200	19	Tu.	39	32	45	27	49	22	20 18	5 10	11 27	11 28	11 29	11 34		
201	20	Wd.	40	31	46	26	50	22	21 18	5 52	11 51	11 53	11 55	mor.	19th, 7 P.M. ☉ ♀..♀+3°53'	
202	21	Th.	41	31	47	25	51	21	22 18	6 34	mor.	mor.	2 20	7 A.M. ☉'s Apogee.	Margaret.	
203	22	Fri.	42	30	48	25	52	20	23 18	7 17	16	19	22	30	24th, 12 M. ☉ ♀..♀+2°15'	
204	23	Sat.	43	29	48	24	53	19	24 18	8 2	2	45	49	52	1 1 25th, 11 A.M. ☉ ♀..♀+0°41'	Mary Magdalene.
205	24	S.	44	28	49	23	54	18	25 18	8 50	1 19	1 23	1 23	1 37	25th, 2 P.M. ☉ ☉..♂+2°8'	6th Sun. after Trinity
206	25	Mo.	45	27	50	22	54	17	26 18	9 40	2 0	2 5	2 10	2 20	26th, 7 A.M. ♀ stationary.	James.
207	26	Tu.	46	26	51	21	55	16	27 18	10 33	2 48	2 53	2 59	3 9	26th, 11 P.M. ☉ ☉ Sup.	Anne.
208	27	Wd.	47	25	52	20	56	16	28 18	11 27	sets.	sets.	sets.	sets.	27th, 10 A.M. ☉ ☉ ☉+0°7'	
209	28	Th.	48	24	53	19	57	15	0	6 P.M.	21	7 51	7 47	7 41	27th, ☉ eclipsed, invis. at W.	
210	29	Fri.	49	23	54	18	58	14	1 6	1 15	8 30	8 27	8 23	8 26	28th, 9 A.M. ☉ ☉ ☉+0°8'	
211	30	Sat.	50	22	55	17	59	13	2 6	2 8	9 4	9 2	8 59	9 5	29th, 10 A.M. ☉ gr. hel. Lat. N.	
212	31	S.	4 51	7 21	4 56	7 16	4 59	7 12	3 6	2 59	9 35	9 34	9 33	9 39	29th, 11 A.M. ☉ ☉ ☉+0°29'	

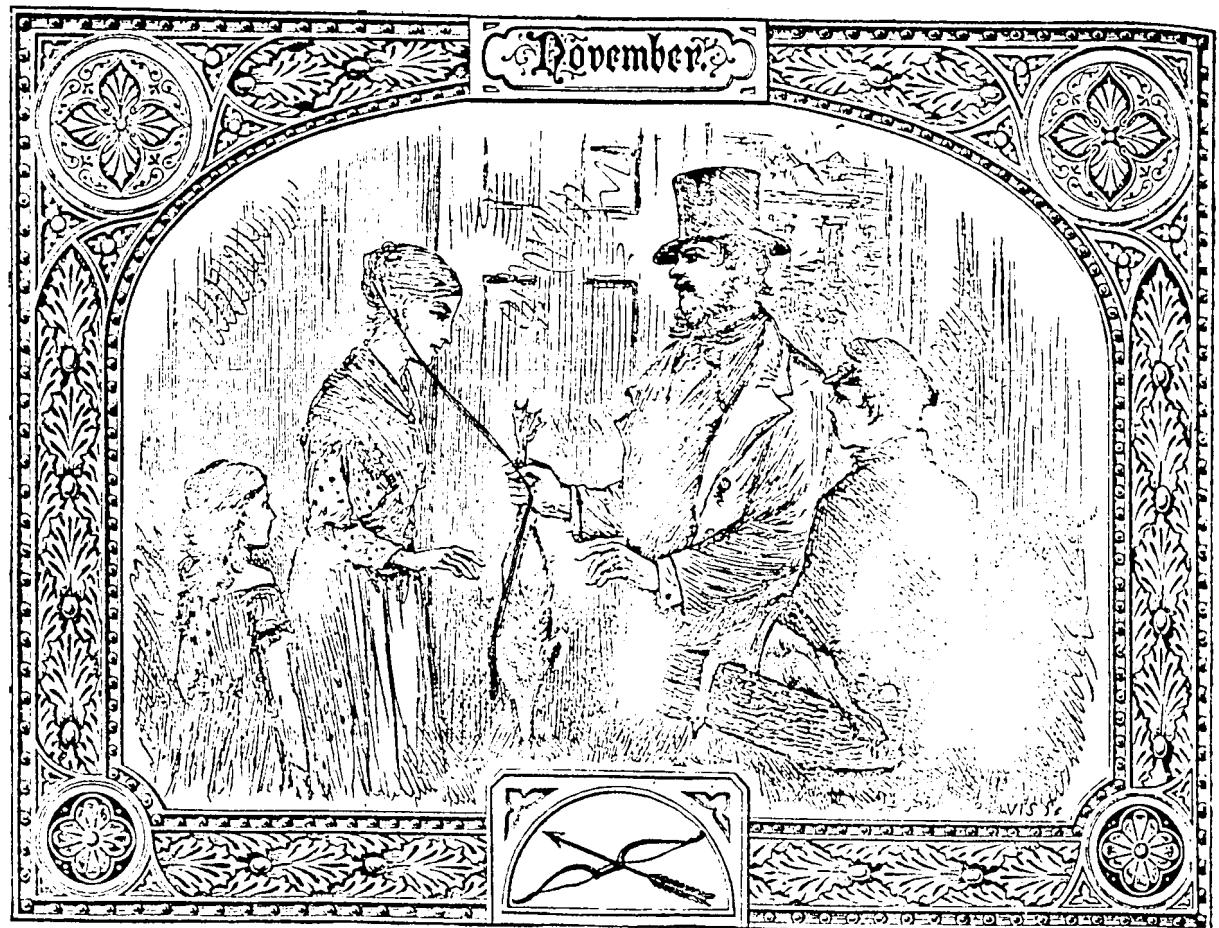
Day of Year	Day of Month	Day of Week	THE SUN.				THE MOON.				PHENOMENA.				SUNDAYS, HOLY DAYS, and ANNIVERSARIES.	
			Latitude of BOSTON.		Latitude of NEW YORK.		Latitude of WASHINGTON.		WASHINGTON.		BOSTON.		NEW YORK.			
			Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	h.m.	h.m.	h.m.	h.m.	h.m.	h.m.		
213	1	Mo.	4 52	7 20	4 57	7 15	5 0	7 11	4 6	3 50	10 6 10	5 10	5 10	11	Lammas Day.	
214	2	Tu.	53	19	58	14	1	10	5 6	4 40	10 35	10 36	10 37	10 43		
215	3	Wd.	54	17	59	13	2	9	6 6	5 31	11 6 11	8 11	11 11	11 17		
216	4	Th.	55	16	59	12	3	8	7 6	6 23	11 40	11 43	11 47	11 54		
217	5	Fri.	56	15	5	10	4	7	8 6	7 18	mor.	mor.	mor.	mor.		
218	6	Sat.	57	14	1	9	4	6	9 6	8 14	17	21	25	35	Transfiguration.	
219	7	S.	58	13	2	8	5	5	10 6	9 12	1 3	1 8	1 13	1 23	St. Sun. after Trinity [Name of Jim]	
220	8	Mo.	59	11	3	7	6	4	11 6	10 10	1 56	2 1	2 7	2 17		
221	9	Tu.	5 0	10	4	6	7	3	12 6	11 6	2 54	2 59	3 4	3 14	Laurence.	
222	10	Wd.	1	8	5	4	8	0	1 13	6 12	0	rises.	rises.	4 16		
223	11	Th.	2	7												



Day of Year	Day of Month	Day of Week	THE SUN.				THE MOON.				PHENOMENA.				SUNDAYS, HOLY DAYS, and ANNIVERSARIES.			
			Latitude of BOSTON.	Latitude of NEW YORK.	Latitude of WASHINGTON.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Sets.	Sets.	Sets.	Moon's Phases.	d. h. m.		
244	1	Th.	5 24	6 34	5 26	6 32	5 25	6 31	5 20	5 14	10 16	10 20	10 24	10 33	Moon's Phases.	d. h. m.		
245	2	Fri.	26	33	28	30	29	29	6 20	6 10	10 59	11 4	11 9	11 15	D FIRST QUARTER	2 10 50 A.M.		
246	3	Sat.	27	31	29	30	28	7 20	7 7	11 46	11 54	12 0	mor.	3d, 6 A.M. ☽ h ☉..h—1° 11'	○ FULL MOON	9 5 3 P.M.		
247	4	S.	28	29	30	27	31	26	8 20	8 4	mor.	mor.	mor.	10	12th Sun. after Trini	G LAST QUARTER	17 8 22 P.M.	
248	5	Mo.	29	27	31	26	32	25	9 20	9 0	46	51	57	1 7		● NEW MOON	25 1 26 A.M.	
249	6	Tu.	30	26	32	24	33	23	10 20	9 53	1 48	1 53	1 58	2 8				
250	7	Wd.	31	24	33	22	34	21	11 20	10 44	2 52	2 56	3 0	3 10				
251	8	Th.	32	22	34	20	34	20	12 20	11 32	3 57	4 0	4 4	4 13	Ensusus.	8th, 6 A.M. ☽ gr. elon. E. 26°55'		
252	9	Fri.	33	20	35	19	35	18	13 20	A.M.	rises.	rises.	rises.	rises.	Nativity of Mary.			
253	10	Sat.	34	19	36	17	36	16	14 20	17	7 4	7 3	7 2	7 9	Battle of Lake Erie.			
254	11	S.	35	17	37	16	37	15	15 20	1	0	7 29	7 29	7 36	13th Sun. after Trini	13th Sun. after Trini		
255	12	Mo.	36	15	37	14	35	13	16 20	1	42	7 52	7 54	7 55	8 3	12th, 9 A.M. ☽ ☉..h..h+3°35'		
256	13	Tu.	37	14	38	13	39	12	17 20	2 24	8 18	8 20	8 22	8 30				
257	14	Wd.	38	12	39	11	40	10	18 20	3 6	8 45	8 48	8 51	9 0	Holy-Cross Day.	14th, 2 P.M. ☽'s Apogee.		
258	15	Th.	39	10	40	9	41	9	19 20	3 50	9 15	9 19	9 23	9 32	15th, 2 A.M. ☐ h ☉			
259	16	Fri.	40	8	41	7	42	7	20 20	4 35	9 49	9 54	9 58	10 8	Lambert.			
260	17	Sat.	41	7	42	6	43	6	21 20	5 22	10 29	10 34	10 49	17th, 9 P.M. ☽ 4 ☉..h+1°17'	14th Sun. after Trini			
261	18	S.	42	5	43	4	43	4	22 20	6 11	11 16	11 21	11 27	11 37	Cyprian.	18th, 6 A.M. ☐ 4 ☉		
262	19	Mo.	43	3	44	3	44	3	23 20	7 2	mor.	mor.	mor.	mor.	Jerom.			
263	20	Tu.	44	1	45	1	45	1	24 20	7 55	11	16	21	31	20th, 8 A.M. ☽ ☉..h—0°20'			
264	21	Wd.	45	59	46	59	46	59	23 20	8 49	1 13	1 18	1 22	1 32	Matthew.	20th, 1 P.M. ☽ in Perihelion.		
265	22	Th.	46	58	47	58	47	59	26 20	9 43	2 20	2 24	2 28	2 37	21st, 5 A.M. ☽ ☉..h—0°44'			
266	23	Fri.	48	56	48	56	48	56	27 20	10 37	3 31	3 34	3 37	3 46	21st, 7 A.M. ☽ stationary.			
267	24	Sat.	49	54	49	54	49	54	28 20	11 30	4 46	4 48	4 49	4 57	21st, 10 A.M. ☽ gr. hel. Lat. S.			
268	25	S.	50	52	50	52	50	53	0 11	P.M. 23	sets.	sets.	sets.	sets.	15th Sun. after Trini	22d, ☽ enters ☉ Autumn com.		
269	26	Mo.	51	50	51	51	51	51	1 11	1 16	7 4	7 5	7 7	7 15	Cyrus.	23d, 2 P.M. ☽ ♀ (..♀—2° 59'		
270	27	Tu.	52	49	52	49	52	49	2 11	2 10	7 36	7 39	7 41	7 50	Michael.	25th, 10 P.M. ☽ ♀ (..♀—9°28'		
271	28	Wd.	53	47	53	47	53	47	3 11	3 6	8 13	8 17	8 20	8 30	Jerom.	26th, 3 P.M. ☽'s Perigee.		
272	29	Th.	54	45	54	46	54	46	4 11	4 3	8 56	9 1	9 5	9 15				
273	30	Fri.	55	43	55	44	54	54	5 11	5 1	9 45	9 50	9 55	10 5	30th, 1 P.M. ☽ h ☉..h—0°56'			



Day of Year	Day of Month	Day of Week	THE SUN.				THE MOON.				PHENOMENA.				SUNDAYS, HOLY DAYS, and ANNIVERSARIES.				
			Latitude of BOSTON.	Latitude of NEW YORK.	Latitude of WASHING-TON.	Rises.	Sets.	Rises.	Sets.	Rises.	WASHING-TON.	BOSTON.	NEW YORK.	WASHING-TON.	SAN-FRAN.	Moon's Phases.	d. h. m.		
274	1	Sat.	5 57	5 41	5 56	5 42	5 56	5 42	5 42	6 11	5 50	10 40	10 45	10 51	11 1	1 4 11 P.M.			
275	2	S.	58	40	57	41	57	41	57	7 11	6 56	11 40	11 45	11 50	12 0	8 8 25 A.M.			
276	3	Mo.	59	38	58	39	58	40	58	8 11	7 50	mor.	mor.	mor.	mor.	17 1 5 P.M.			
277	4	Tu.	6 0	36	59	38	59	38	59	9 11	8 41	44	49	53	1 3	24 10 27 A.M.			
278	5	Wd.	1	35	6 0	36	6 0	36	6 0	10 11	9 29	1 48	1 52	1 55	2 5	31 2 23 A.M.			
279	6	Th.	2	33	1	34	0	35	11 11	10 14	2 51	2 54	2 56	3 5					
280	7	Fri.	3	31	2	33	1	34	12 11	10 58	3 54	3 56	3 58	4 6					
281	8	Sat.	4	29	3	31	2	32	13 11	11 40	4 56	4 57	4 57	5 5					
282	9	S.	5	28	4	29	3	31	14 11	A.M.	rises.	rises.	rises.	rises.	9th, 3 P.M. ☽ ☉..h..h+3° 30'	17th Sun. after Trini			
283	10	Mo.	7	26	5	28	4	29	5	28	16 11	1 3	6 46	6 49	6 51	7 0	10th, 10 A.M. ☽ in ☈		
284	11	Tu.	8	25	6	27	5	28	6	27	17 11	1 46	7 15	7 19	7 22	7 31	12th, 4 A.M. ☉'s Apogee.		
285	12	Wd.	9	23	7	25	6	26	7	25	18 11	2 30	7 47						



November.

Day of Year.	Day of Month.	THE SUN.						THE MOON.						PHENOMENA.						SUNDAYS, HOLY DAYS, and ANNIVERSARIES.		
		Latitude of BOSTON.		Latitude of NEW YORK.		Latitude of WASHINGTON.		WASHINGTON.		BOSTON.		NEW YORK.		WASH- ING- TON.		SAN FRAN.		Moon's Phases.		d. h. m.		
		Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Age at Noon.	Souths.					
305	1 Tu.	6 33	4 54	6 30	4 57	6 27	5 0	8 2	7 27	mor.	mor.	mor.	mor.	mor.	mor.	1st, 10 P.M. ♀ stationary.	All Saints.					
306	2 Wd.	34	52	31	56	28	459	9 2	8 14	44	47	50	58									
307	3 Th.	35	51	32	55	29	57	10 2	8 57	1 47	1 49	1 51	1 58									
308	4 Fri.	37	50	33	54	31	56	11 2	9 39	2 48	2 49	2 50	2 56									
309	5 Sat.	38	49	34	53	32	55	12 2	10 20	3 48	3 48	3 53	5th, 7 P.M. ♂ ♡ .. ♡ +3°34'									
310	6 S.	39	48	35	52	33	54	13 2	11 2	4 47	4 46	4 45	4 50									
311	7 Mo.	41	47	37	51	34	53	14 2	11 44	5 46	5 44	5 42	5 46									
312	8 Tu.	42	45	38	49	35	52	15 2	A.M. rises.	rises.	rises.	rises.	8th, 8 A.M. ♀'s Apogee.									
313	9 Wd.	43	44	39	48	36	52	16 2	2 28	5 50	5 54	5 58	6 6									
314	10 Th.	44	43	40	48	37	51	17 2	1 13	6 25	6 30	6 35	6 44	11th, 10 A.M. ♂ ♡ .. ♡ +0°51'								
315	11 Fri.	46	42	41	47	38	50	18 2	2 1	7 6	7 11	7 17	7 26	11th, 4 P.M. ♂ ♡ .. ♡ -0°17'	Martin.							
316	12 Sat.	47	41	42	40	39	49	19 2	2 50	7 53	7 59	8 5	8 14									
317	13 S.	48	40	44	45	40	48	20 2	3 41	8 47	8 53	8 58	9 8	13th, 12 P.M. ♂ ♡ .. ♡ -0°52'	22d Sun. after Trinit.							
318	14 Mo.	49	39	45	44	41	48	21 2	4 32	9 47	9 52	9 57	10 6									
319	15 Tu.	51	38	46	43	43	47	22 2	5 23	10 51	10 55	10 59	11 8									
320	16 Wd.	52	37	47	42	44	46	23 2	6 13	11 58	mor.	mor.	mor.									
321	17 Th.	53	37	48	42	45	45	24 2	7 4	mor.	1	5	13	17th, 8 A.M. ♂ ♡ .. ♡ -2°46'	Hugh of Lincoln.							
322	18 Fri.	54	36	49	41	46	44	25 2	7 54	1 8	1 10	1 12	1 20	17th, 7 P.M. ♀ in ♃								
323	19 Sat.	55	35	51	40	47	44	26 2	8 45	2 20	2 21	2 21	2 28									
324	20 S.	57	34	52	39	48	43	27 2	9 37	3 35	3 34	3 33	3 40	22d, 10 A.M. ♂ ♡ ○	23d Sun. after Trinit.							
325	21 Mo.	58	34	53	39	49	42	28 2	10 31	4 51	4 49	4 47	4 53	22d, 12 M. ♀'s Perigee.								
326	22 Tu.	59	33	54	38	50	42	29 2	11 29	6 9	5 6	6 3	6 8	22d, 1 P.M. ♂ ♡ .. ♡ -3° 8'	Cecilia.							
327	23 Wd.	7 0	33	55	38	51	41	0 16 P.M. 29	sets.	sets.	sets.	sets.	sets.	22d, 7 P.M. ♂ ♡ .. ♡ -4° 1'	Clement.							
328	24 Th.	1	32	56	37	52	41	1 16	1 31	6 14	6 20	6 26	6 36	24th, 3 P.M. ♂ ♡ .. ♡ -0°17'	Catherine.							
329	25 Fri.	3	32	57	36	53	40	2 16	2 34	7 14	7 20	7 25	7 36		25th, Battle of Chal.							
330	26 Sat.	4	31	58	36	54	40	3 16	3 34	8 19	8 24	8 30	8 40									
331	27 S.	5	31	59	35	56	40	4 16	4 30	9 26	9 30	9 35	9 44	27th, 12 P.M. ♀ in Aphelion.	1st Sun. in Adora.							
332	28 Mo.	6	30	7 0	35	57	40	5 16	5 23	10 33	10 36	10 40	10 48									
333	29 Tu.	7	30	2	35	58	40	6 16	6 11	11 37	11 40	11 42	11 50									
334	30 Wd.	7	8 4	29 7	3 4 34	6 59	4 39	7 16	6 56	mor.	mor.	mor.	mor.									

Andrew.



DECEMBER.

Day of Year.	Day of Month.	THE SUN.						THE MOON.						PHENOMENA.						SUNDAYS, HOLY DAYS, and ANNIVERSARIES.		
		Latitude of BOSTON.		Latitude of NEW YORK.		Latitude of WASHINGTON.		WASHINGTON.		BOSTON.		NEW YORK.		WASH- ING- TON.		SAN FRAN.		Moon's Phases.		d. h. m.		
		Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Rises.	Sets.	Age at Noon.	Souths.					
335	1 Th.	7 9	4 29	7 4	4 34	7 0	4 39	8 16	7 38	40	41	43	51									
336	2 Fri.	10	29	5	34	0	39	9 16	8 20	1 41	1 41	1 42	1 49									Execution John Brown.
337	3																					