

Sun and Moon Data for One Day

U.S. Naval Observatory Astronomical Applications Department

Perryville, Perry County, MO (Longitude W 89° 52', Latitude N 37° 44')

Saturday, July 1, 2017

Central Daylight Time

Sun	
Begin civil twilight	5:10 a.m.
Sunrise	5:42 a.m.
Sun transit	1:03 p.m.
Sunset	8:25 p.m.
End civil twilight	8:56 p.m.
Moon	
Moonset	1:07 a.m.
Moonrise	1:46 p.m.
Moon transit	7:45 p.m.
Moonset	1:38 a.m. on following day

Closest Primary Moon Phase: First Quarter on June 30, 2017 at 7:51 p.m. (local daylight time)

Phase of the Moon on July 1, 2017: Waxing Gibbous with 57% of the Moon's visible disk illuminated.

July 2017 — Sun in St. Louis

Month: Year:

2017 Jul	Sunrise/Sunset		Daylength		Astronomical Twilight		Nautical Twilight		Civil Twilight		Solar Noon	
	Sunrise	Sunset	Length	Difference	Start	End	Start	End	Start	End	Time	I
▼ 1	5:40 am ↗ (59°)	8:29 pm ↘ (301°)	14:48:57	-0:33	3:43 am	10:25 pm	4:28 am	9:40 pm	5:08 am	9:00 pm	1:04 pm (74.4°)	
▼ 2	5:40 am ↗ (59°)	8:29 pm ↘ (301°)	14:48:20	-0:37	3:43 am	10:25 pm	4:29 am	9:40 pm	5:08 am	9:00 pm	1:04 pm (74.4°)	
▼ 3	5:41 am ↗ (59°)	8:28 pm ↘ (301°)	14:47:40	-0:40	3:44 am	10:25 pm	4:29 am	9:40 pm	5:09 am	9:00 pm	1:05 pm (74.3°)	
▼ 4	5:41 am ↗ (59°)	8:28 pm ↘ (300°)	14:46:56	-0:43	3:45 am	10:24 pm	4:30 am	9:39 pm	5:10 am	9:00 pm	1:05 pm (74.2°)	
▼ 5	5:42 am ↗ (60°)	8:28 pm ↘ (300°)	14:46:09	-0:46	3:46 am	10:24 pm	4:31 am	9:39 pm	5:10 am	8:59 pm	1:05 pm (74.1°)	
▼ 6	5:42 am ↗ (60°)	8:28 pm ↘ (300°)	14:45:20	-0:49	3:47 am	10:23 pm	4:31 am	9:39 pm	5:11 am	8:59 pm	1:05 pm (74.0°)	
▼ 7	5:43 am ↗ (60°)	8:27 pm ↘ (300°)	14:44:27	-0:52	3:47 am	10:23 pm	4:32 am	9:38 pm	5:11 am	8:59 pm	1:05 pm (73.9°)	
▼ 8	5:44 am ↗ (60°)	8:27 pm ↘ (300°)	14:43:31	-0:55	3:48 am	10:22 pm	4:33 am	9:38 pm	5:12 am	8:58 pm	1:05 pm (73.8°)	
▼ 9	5:44 am ↗ (60°)	8:27 pm ↘ (300°)	14:42:32	-0:58	3:49 am	10:21 pm	4:34 am	9:37 pm	5:13 am	8:58 pm	1:06 pm (73.6°)	
▼ 10	5:45 am ↗ (60°)	8:26 pm ↘ (300°)	14:41:30	-1:01	3:50 am	10:20 pm	4:34 am	9:37 pm	5:13 am	8:58 pm	1:06 pm (73.5°)	
▼ 11	5:45 am ↗ (61°)	8:26 pm ↘ (299°)	14:40:26	-1:04	3:51 am	10:20 pm	4:35 am	9:36 pm	5:14 am	8:57 pm	1:06 pm (73.4°)	
▼ 12	5:46 am ↗ (61°)	8:25 pm ↘ (299°)	14:39:18	-1:07	3:52 am	10:19 pm	4:36 am	9:35 pm	5:15 am	8:57 pm	1:06 pm (73.2°)	
▼ 13	5:47 am ↗ (61°)	8:25 pm ↘ (299°)	14:38:08	-1:10	3:53 am	10:18 pm	4:37 am	9:35 pm	5:16 am	8:56 pm	1:06 pm (73.1°)	
▼ 14	5:48 am ↗ (61°)	8:24 pm ↘ (299°)	14:36:55	-1:12	3:55 am	10:17 pm	4:38 am	9:34 pm	5:17 am	8:55 pm	1:06 pm (72.9°)	
▼ 15	5:48 am ↗ (61°)	8:24 pm ↘ (299°)	14:35:39	-1:15	3:56 am	10:16 pm	4:39 am	9:33 pm	5:17 am	8:55 pm	1:06 pm (72.8°)	
▼ 16	5:49 am ↗ (62°)	8:23 pm ↘ (298°)	14:34:21	-1:18	3:57 am	10:15 pm	4:40 am	9:32 pm	5:18 am	8:54 pm	1:06 pm (72.6°)	
▼ 17	5:50 am ↗ (62°)	8:23 pm ↘ (298°)	14:33:00	-1:20	3:58 am	10:14 pm	4:41 am	9:32 pm	5:19 am	8:54 pm	1:06 pm (72.4°)	
▼ 18	5:51 am ↗ (62°)	8:22 pm ↘ (298°)	14:31:37	-1:23	3:59 am	10:13 pm	4:42 am	9:31 pm	5:20 am	8:53 pm	1:07 pm (72.3°)	
▼ 19	5:51 am ↗ (62°)	8:21 pm ↘ (298°)	14:30:11	-1:25	4:00 am	10:12 pm	4:43 am	9:30 pm	5:21 am	8:52 pm	1:07 pm (72.1°)	
▼ 20	5:52 am ↗ (63°)	8:21 pm ↘ (297°)	14:28:43	-1:28	4:02 am	10:11 pm	4:44 am	9:29 pm	5:22 am	8:51 pm	1:07 pm (71.9°)	
▼ 21	5:53 am ↗ (63°)	8:20 pm ↘ (297°)	14:27:12	-1:30	4:03 am	10:10 pm	4:45 am	9:28 pm	5:22 am	8:51 pm	1:07 pm (71.7°)	
▼ 22	5:54 am ↗ (63°)	8:19 pm ↘ (297°)	14:25:39	-1:32	4:04 am	10:09 pm	4:46 am	9:27 pm	5:23 am	8:50 pm	1:07 pm (71.5°)	
▼ 23	5:55 am ↗ (63°)	8:19 pm ↘ (297°)	14:24:04	-1:35	4:05 am	10:07 pm	4:47 am	9:26 pm	5:24 am	8:49 pm	1:07 pm (71.3°)	
▼ 24	5:55 am ↗ (64°)	8:18 pm ↘ (296°)	14:22:27	-1:37	4:07 am	10:06 pm	4:48 am	9:25 pm	5:25 am	8:48 pm	1:07 pm (71.1°)	
▼ 25	5:56 am ↗ (64°)	8:17 pm ↘ (296°)	14:20:47	-1:39	4:08 am	10:05 pm	4:49 am	9:24 pm	5:26 am	8:47 pm	1:07 pm (70.9°)	
▼ 26	5:57 am ↗ (64°)	8:16 pm ↘ (296°)	14:19:06	-1:41	4:09 am	10:03 pm	4:50 am	9:23 pm	5:27 am	8:46 pm	1:07 pm (70.6°)	
▼ 27	5:58 am ↗ (64°)	8:15 pm ↘ (295°)	14:17:22	-1:43	4:10 am	10:02 pm	4:51 am	9:22 pm	5:28 am	8:45 pm	1:07 pm (70.4°)	
▼ 28	5:59 am ↗ (65°)	8:14 pm ↘ (295°)	14:15:37	-1:45	4:12 am	10:01 pm	4:52 am	9:21 pm	5:29 am	8:44 pm	1:07 pm (70.2°)	
▼ 29	6:00 am ↗ (65°)	8:13 pm ↘ (295°)	14:13:50	-1:47	4:13 am	9:59 pm	4:53 am	9:20 pm	5:30 am	8:43 pm	1:07 pm (69.9°)	
▼ 30	6:00 am ↗ (65°)	8:12 pm ↘ (294°)	14:12:01	-1:49	4:14 am	9:58 pm	4:54 am	9:18 pm	5:31 am	8:42 pm	1:07 pm (69.7°)	
▼ 31	6:01 am ↗ (66°)	8:11 pm ↘ (294°)	14:10:10	-1:50	4:16 am	9:57 pm	4:55 am	9:17 pm	5:32 am	8:41 pm	1:07 pm (69.5°)	

* All times are local time for St. Louis. Time is adjusted for DST when applicable. They take into account refraction. Dates are based on the Gregorian calendar.

Aphelion was on July 3, 2017 at 3:11 pm in St. Louis. The Earth was farthest from the Sun at this time.

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PERRYVILLE, MISSOURI

⁰
W 89 52', N37 44'

Altitude and Azimuth of the Sun
Jul 1, 2017

Central Daylight Time

		Altitude	Azimuth (E of N)
h	m	o	o
04:35		-11.5	48.5
04:40		-10.7	49.4
04:45		-10.0	50.3
04:50		-9.2	51.1
04:55		-8.4	52.0
05:00		-7.7	52.8
05:05		-6.9	53.7
05:10		-6.1	54.5
05:15		-5.3	55.3
05:20		-4.4	56.1
05:25		-3.6	57.0
05:30		-2.8	57.7
05:35		-1.9	58.5
05:40		-1.1	59.3
05:45		0.3	60.1
05:50		1.0	60.8
05:55		1.8	61.6
06:00		2.6	62.4
06:05		3.5	63.1
06:10		4.3	63.8
06:15		5.2	64.6
06:20		6.0	65.3
06:25		6.9	66.0
06:30		7.8	66.7
06:35		8.7	67.4
06:40		9.6	68.1
06:45		10.5	68.8
06:50		11.5	69.5
06:55		12.4	70.2
07:00		13.3	70.9
07:05		14.2	71.6
07:10		15.2	72.3
07:15		16.1	73.0
07:20		17.1	73.7
07:25		18.0	74.3
07:30		19.0	75.0
07:35		19.9	75.7
07:40		20.9	76.4
07:45		21.8	77.0
07:50		22.8	77.7
07:55		23.8	78.4
08:00		24.7	79.1
08:05		25.7	79.8
08:10		26.7	80.4
08:15		27.6	81.1
08:20		28.6	81.8
08:25		29.6	82.5
08:30		30.6	83.2
08:35		31.6	83.9
08:40		32.5	84.6
08:45		33.5	85.3
08:50		34.5	86.0
08:55		35.5	86.7
09:00		36.5	87.5
09:05		37.5	88.2
09:10		38.4	88.9
09:15		39.4	89.7
09:20		40.4	90.5
09:25		41.4	91.2
09:30		42.4	92.0
09:35		43.4	92.8

09:40	44.4	93.7
09:45	45.4	94.5
09:50	46.3	95.3
09:55	47.3	96.2
10:00	48.3	97.1
10:05	49.3	98.0
10:10	50.3	99.0
10:15	51.2	99.9
10:20	52.2	100.9
10:25	53.2	101.9
10:30	54.1	103.0
10:35	55.1	104.1
10:40	56.1	105.2
10:45	57.0	106.4
10:50	58.0	107.6
10:55	58.9	108.9
11:00	59.8	110.2
11:05	60.7	111.6
11:10	61.7	113.0
11:15	62.6	114.5
11:20	63.5	116.1
11:25	64.3	117.8
11:30	65.2	119.6
11:35	66.1	121.5
11:40	66.9	123.5
11:45	67.7	125.6
11:50	68.5	127.8
11:55	69.3	130.2
12:00	70.0	132.7
12:05	70.7	135.4
12:10	71.4	138.2
12:15	72.0	141.3
12:20	72.6	144.5
12:25	73.2	148.0
12:30	73.7	151.6
12:35	74.1	155.4
12:40	74.5	159.4
12:45	74.8	163.6
12:50	75.0	167.9
12:55	75.2	172.4
13:00	75.3	176.9
13:05	75.3	181.4
13:10	75.3	185.9
13:15	75.1	190.4
13:20	74.9	194.8
13:25	74.6	199.0
13:30	74.3	203.1
13:35	73.8	207.0
13:40	73.4	210.7
13:45	72.8	214.2
13:50	72.3	217.5
13:55	71.6	220.6
14:00	71.0	223.6
14:05	70.3	226.3
14:10	69.5	228.9
14:15	68.8	231.3
14:20	68.0	233.6
14:25	67.2	235.8
14:30	66.4	237.8
14:35	65.5	239.7
14:40	64.7	241.5
14:45	63.8	243.2
14:50	62.9	244.8
14:55	62.0	246.4
15:00	61.1	247.9
15:05	60.2	249.3
15:10	59.2	250.6
15:15	58.3	251.9
15:20	57.4	253.1
15:25	56.4	254.3
15:30	55.5	255.5
15:35	54.5	256.6
15:40	53.5	257.6
15:45	52.6	258.7
15:50	51.6	259.7
15:55	50.6	260.7
16:00	49.6	261.6
16:05	48.7	262.5
16:10	47.7	263.4
16:15	46.7	264.3
16:20	45.7	265.2

16:25	44.7	266.0
16:30	43.7	266.8
16:35	42.8	267.6
16:40	41.8	268.4
16:45	40.8	269.2
16:50	39.8	270.0
16:55	38.8	270.7
17:00	37.8	271.5
17:05	36.8	272.2
17:10	35.8	273.0
17:15	34.9	273.7
17:20	33.9	274.4
17:25	32.9	275.1
17:30	31.9	275.8
17:35	30.9	276.5
17:40	29.9	277.2
17:45	29.0	277.9
17:50	28.0	278.6
17:55	27.0	279.3
18:00	26.0	280.0
18:05	25.1	280.6
18:10	24.1	281.3
18:15	23.1	282.0
18:20	22.2	282.7
18:25	21.2	283.4
18:30	20.2	284.0
18:35	19.3	284.7
18:40	18.3	285.4
18:45	17.4	286.1
18:50	16.4	286.7
18:55	15.5	287.4
19:00	14.6	288.1
19:05	13.6	288.8
19:10	12.7	289.5
19:15	11.8	290.2
19:20	10.9	290.9
19:25	9.9	291.6
19:30	9.0	292.3
19:35	8.1	293.0
19:40	7.2	293.7
19:45	6.4	294.4
19:50	5.5	295.1
19:55	4.6	295.9
20:00	3.7	296.6
20:05	2.9	297.3
20:10	2.1	298.1
20:15	1.3	298.8
20:20	0.5	299.6
20:25	-0.8	300.4
20:30	-1.7	301.1
20:35	-2.5	301.9
20:40	-3.3	302.7
20:45	-4.2	303.5
20:50	-5.0	304.3
20:55	-5.8	305.1
21:00	-6.6	306.0
21:05	-7.4	306.8
21:10	-8.2	307.7
21:15	-9.0	308.5
21:20	-9.7	309.4
21:25	-10.5	310.3
21:30	-11.2	311.1
21:35	-12.0	312.0

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