

I slightly modified Thorstensen's code to print out the time between evening twilight and morning twilight. For Okie-Tex site (site code = o) near Kenton OK I used same time zone as for Oklahoma City.

W. Romanishin- August 2013 - email: wromanishin at ou.edu - Here is stuff from John T. intro:

***** 2025 Night-time Astronomical Calendar for Okie-Tex *****

By John Thorstensen, Dartmouth College

This calendar is designed to provide information useful for the planning of nighttime observations. The format should minimize confusion; each line gives the phenomena for a single (local!) night, and each line is labeled with both evening and morning (local) day and date. Note that all times given are LOCAL CIVIL (zone) times. DAYLIGHT SAVINGS time is used using conventions for the USA; for 2007+, 2nd Sunday in March to first Sunday in November.

The rise/set times printed are the times at which the center of the object is 50 arcminutes below the geometrical horizon. At the given twilight, the center of the sun is 0.0 degrees below the geometrical horizon.

The moon positions (and rise/set times) are generated by an implementation of the Low-Precision formulae in the Astronomical Almanac. The Almanac states that the error seldom exceeds 0.3 degrees. Topocentric corrections are included. Comparisons with tables for Kitt Peak in the NOAO Newsletter indicate that the rise-set times are good to +/- 2 min or so. The moon's RA, Dec, and illuminated fraction are given for local midnight, regardless of whether the moon is actually up at that time. Note that the moonrise and moonset times are not printed if they occur near mid-day.

The LST at evening and morning twilight are tabulated. This gives an accurate idea of the range of RA's accessible during the night.

The JD is given (severely rounded off) for local midnight. Again, this avoids any ambiguity.

Some credits: The sidereal time and Julian date routines were originally coded in PL/I by Steve Maker of Dartmouth College. The algorithms originated in the old American Ephemeris. The routine to convert JD back to calendar date is adapted from Numerical Recipes in C, by Press et al.

CAUTIONS: I believe that the program which generates these tables is reasonably accurate. However, it has not been exhaustively tested, so you should be sure to run 'sanity checks' on the results. Also, in view of the approximations used, the results should not be used when high precision is needed. Extension to dates far from the present (1990) should be done with great caution. The code has not been tested for the eastern or southern hemishpheres. Rise/set times are slightly inaccurate and rather confusing at circumpolar latitudes, where the concept of a 'night' is blurry.

The daylight savings time conventions (if used) are quite specific (to U. S., post-1986) and subject to change. I know that the code has many infelicities; if you should find actual errors, please notify John.Thorstensen@dartmouth.edu

[This output comes from a (hopefully) portable, completely self-contained program in the c language. It is available from the author and may be used freely for scientific or educational purposes. If you use it for profit, please contact the author to arrange a (modest!) fee. Source code is copyright John Thorstensen, 1990.]

MOON PHASES FOR 2025, at Okie-Tex

Times and dates are given in local time, zone = 6 hr West.
 They are generally better than +- 2 minutes.
 Daylight savings time used.

The end of the previous year and the beginning of the next
 are included for continuity.

NEW	1ST	FULL	LAST
Dec 30 16 28	Jan 06 17 58	Jan 13 16 28	Jan 21 14 32
Jan 29 6 37	Feb 05 2 04	Feb 12 7 54	Feb 20 11 35
Feb 27 18 47	Mar 06 10 34	Mar 14 1 56	Mar 22 6 32
Mar 29 6 00	Apr 04 21 17	Apr 12 19 24	Apr 20 20 38
Apr 27 14 33	May 04 8 53	May 12 11 58	May 20 7 01
May 26 22 04	Jun 02 22 42	Jun 11 2 46	Jun 18 14 21
Jun 25 5 34	Jul 02 14 30	Jul 10 15 39	Jul 17 19 40
Jul 24 14 12	Aug 01 7 41	Aug 09 2 57	Aug 16 0 14
Aug 23 1 07	Aug 31 1 26	Sep 07 13 11	Sep 14 5 35
Sep 21 14 55	Sep 29 18 55	Oct 06 22 49	Oct 13 13 15
Oct 21 7 26	Oct 29 11 22	Nov 05 7 20	Nov 11 23 30
Nov 20 0 48	Nov 28 1 00	Dec 04 17 15	Dec 11 14 53
Dec 19 19 44	Dec 27 13 11	Jan 03 4 04	Jan 10 9 49

Calendar for Okie-Tex, west longitude (h.m.s) = 6 51 48, latitude (d.m) = 36 53.9
 Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 JANUARY *****

Date (eve/morn)			LMST	----- Sun: -----				LST twilight:		----- Moon: -----					Twi-Twi
			midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Wed	Jan 01/Thu	Jan 02	5 57	17 46	19 19	6 32	8 05	1 15	12 30	.....	19 40	6	20 55.4	-21 32	11.2
Thu	Jan 02/Fri	Jan 03	6 01	17 47	19 20	6 33	8 05	1 20	12 34	.....	20 51	12	21 49.0	-16 32	11.2
Fri	Jan 03/Sat	Jan 04	6 05	17 48	19 21	6 33	8 05	1 25	12 38	.....	22 02	20	22 40.3	-10 40	11.2
Sat	Jan 04/Sun	Jan 05	6 09	17 49	19 21	6 33	8 05	1 29	12 42	.....	23 11	30	23 30.1	- 4 14	11.2
Sun	Jan 05/Mon	Jan 06	6 12	17 50	19 22	6 33	8 05	1 34	12 46	.....	0 19	41	0 19.6	2 27	11.2
Mon	Jan 06/Tue	Jan 07	6 16	17 51	19 23	6 33	8 05	1 39	12 50	.....	1 29	52	1 09.9	9 04	11.2
Tue	Jan 07/Wed	Jan 08	6 20	17 52	19 24	6 33	8 05	1 43	12 54	.....	2 41	63	2 02.4	15 15	11.2
Wed	Jan 08/Thu	Jan 09	6 24	17 53	19 25	6 33	8 05	1 48	12 58	.....	3 54	74	2 58.0	20 39	11.1
Thu	Jan 09/Fri	Jan 10	6 28	17 53	19 25	6 33	8 05	1 53	13 02	.....	5 08	83	3 57.4	24 51	11.1
Fri	Jan 10/Sat	Jan 11	6 32	17 54	19 26	6 33	8 05	1 58	13 06	.....	6 18	91	4 59.8	27 30	11.1
Sat	Jan 11/Sun	Jan 12	6 36	17 55	19 27	6 33	8 05	2 03	13 10	15 32	7 21	96	6 03.7	28 19	11.1
Sun	Jan 12/Mon	Jan 13	6 40	17 56	19 28	6 33	8 04	2 07	13 14	16 35	8 14	99	7 06.6	27 18	11.1
Mon	Jan 13/Tue	Jan 14	6 44	17 57	19 29	6 33	8 04	2 12	13 18	17 43	.....	100	8 06.4	24 38	11.1
Tue	Jan 14/Wed	Jan 15	6 48	17 58	19 30	6 32	8 04	2 17	13 22	18 52	.....	98	9 01.8	20 39	11.0
Wed	Jan 15/Thu	Jan 16	6 52	17 59	19 31	6 32	8 03	2 22	13 25	19 59	.....	94	9 52.7	15 46	11.0
Thu	Jan 16/Fri	Jan 17	6 56	18 00	19 32	6 32	8 03	2 27	13 29	21 02	.....	88	10 39.9	10 18	11.0
Fri	Jan 17/Sat	Jan 18	7 00	18 01	19 32	6 32	8 03	2 31	13 33	22 02	.....	81	11 24.3	4 34	11.0
Sat	Jan 18/Sun	Jan 19	7 04	18 02	19 33	6 31	8 02	2 36	13 36	23 01	.....	73	12 07.0	- 1 12	11.0
Sun	Jan 19/Mon	Jan 20	7 08	18 04	19 34	6 31	8 02	2 41	13 40	23 58	.....	64	12 49.2	- 6 52	10.9
Mon	Jan 20/Tue	Jan 21	7 12	18 05	19 35	6 31	8 01	2 46	13 44	0 56	.....	55	13 31.9	-12 14	10.9
Tue	Jan 21/Wed	Jan 22	7 16	18 06	19 36	6 30	8 01	2 51	13 47	1 55	.....	46	14 16.3	-17 11	10.9
Wed	Jan 22/Thu	Jan 23	7 20	18 07	19 37	6 30	8 00	2 56	13 51	2 56	.....	36	15 03.0	-21 30	10.9
Thu	Jan 23/Fri	Jan 24	7 23	18 08	19 38	6 30	8 00	3 01	13 54	3 58	.....	27	15 53.0	-25 01	10.9
Fri	Jan 24/Sat	Jan 25	7 27	18 09	19 39	6 29	7 59	3 05	13 58	5 01	.....	19	16 46.3	-27 29	10.8
Sat	Jan 25/Sun	Jan 26	7 31	18 10	19 40	6 29	7 58	3 10	14 01	6 01	.....	12	17 42.7	-28 38	10.8
Sun	Jan 26/Mon	Jan 27	7 35	18 11	19 41	6 28	7 58	3 15	14 04	6 55	.....	6	18 41.1	-28 18	10.8
Mon	Jan 27/Tue	Jan 28	7 39	18 12	19 42	6 28	7 57	3 20	14 08	7 42	16 12	2	19 39.7	-26 23	10.8
Tue	Jan 28/Wed	Jan 29	7 43	18 13	19 43	6 27	7 56	3 25	14 11	.....	17 22	0	20 37.2	-22 56	10.7
Wed	Jan 29/Thu	Jan 30	7 47	18 14	19 43	6 26	7 55	3 30	14 15	.....	18 35	1	21 32.5	-18 09	10.7
Thu	Jan 30/Fri	Jan 31	7 51	18 15	19 44	6 26	7 55	3 35	14 18	.....	19 47	4	22 25.5	-12 21	10.7
Fri	Jan 31/Sat	Feb 01	7 55	18 16	19 45	6 25	7 54	3 40	14 21	.....	20 59	9	23 16.8	- 5 52	10.7

***** 2025 FEBRUARY *****

Date (eve/morn)			LMST	----- Sun: -----				LST twilight:		----- Moon: -----					Twi-Twi
			midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Sat	Feb 01/Sun	Feb 02	7 59	18 18	19 46	6 24	7 53	3 45	14 24	.....	22 10	17	0 07.1	0 57	10.6
Sun	Feb 02/Mon	Feb 03	8 03	18 19	19 47	6 24	7 52	3 49	14 28	.....	23 20	26	0 57.7	7 42	10.6
Mon	Feb 03/Tue	Feb 04	8 07	18 20	19 48	6 23	7 51	3 54	14 31	.....	0 32	37	1 49.8	14 03	10.6
Tue	Feb 04/Wed	Feb 05	8 11	18 21	19 49	6 22	7 50	3 59	14 34	.....	1 45	48	2 44.4	19 38	10.5
Wed	Feb 05/Thu	Feb 06	8 15	18 22	19 50	6 21	7 49	4 04	14 37	.....	2 58	60	3 42.0	24 05	10.5
Thu	Feb 06/Fri	Feb 07	8 19	18 23	19 51	6 20	7 48	4 09	14 40	.....	4 09	70	4 42.6	27 04	10.5
Fri	Feb 07/Sat	Feb 08	8 23	18 24	19 52	6 20	7 47	4 14	14 43	.....	5 13	80	5 44.7	28 21	10.5
Sat	Feb 08/Sun	Feb 09	8 27	18 25	19 53	6 19	7 46	4 19	14 46	.....	6 08	88	6 46.7	27 52	10.4
Sun	Feb 09/Mon	Feb 10	8 30	18 26	19 54	6 18	7 45	4 24	14 49	.....	6 53	94	7 46.3	25 42	10.4
Mon	Feb 10/Tue	Feb 11	8 34	18 27	19 55	6 17	7 44	4 29	14 52	16 37	7 30	98	8 42.3	22 09	10.4
Tue	Feb 11/Wed	Feb 12	8 38	18 28	19 56	6 16	7 43	4 33	14 55	17 43	8 00	100	9 34.3	17 33	10.3
Wed	Feb 12/Thu	Feb 13	8 42	18 29	19 57	6 15	7 42	4 38	14 58	18 48	.....	99	10 22.6	12 14	10.3
Thu	Feb 13/Fri	Feb 14	8 46	18 30	19 58	6 14	7 41	4 43	15 01	19 49	.....	97	11 08.0	6 31	10.3
Fri	Feb 14/Sat	Feb 15	8 50	18 31	19 59	6 13	7 40	4 48	15 04	20 49	.....	93	11 51.5	0 39	10.2
Sat	Feb 15/Sun	Feb 16	8 54	18 32	20 00	6 12	7 39	4 53	15 07	21 47	.....	87	12 34.2	- 5 09	10.2
Sun	Feb 16/Mon	Feb 17	8 58	18 33	20 00	6 11	7 37	4 58	15 10	22 45	.....	80	13 17.0	-10 43	10.2
Mon	Feb 17/Tue	Feb 18	9 02	18 35	20 01	6 10	7 36	5 03	15 13	23 43	.....	72	14 01.0	-15 51	10.1
Tue	Feb 18/Wed	Feb 19	9 06	18 36	20 02	6 08	7 35	5 08	15 15	0 43	.....	63	14 46.9	-20 25	10.1
Wed	Feb 19/Thu	Feb 20	9 10	18 37	20 03	6 07	7 34	5 13	15 18	1 44	.....	54	15 35.5	-24 13	10.1
Thu	Feb 20/Fri	Feb 21	9 14	18 38	20 04	6 06	7 33	5 17	15 21	2 46	.....	44	16 27.3	-27 01	10.0
Fri	Feb 21/Sat	Feb 22	9 18	18 39	20 05	6 05	7 31	5 22	15 24	3 46	.....	35	17 22.0	-28 38	10.0
Sat	Feb 22/Sun	Feb 23	9 22	18 40	20 06	6 04	7 30	5 27	15 26	4 42	.....	26	18 19.1	-28 50	10.0
Sun	Feb 23/Mon	Feb 24	9 26	18 41	20 07	6 03	7 29	5 32	15 29	5 32	.....	17	19 17.1	-27 31	9.9
Mon	Feb 24/Tue	Feb 25	9 30	18 42	20 08	6 01	7 27	5 37	15 32	6 15	.....	10	20 14.8	-24 39	9.9
Tue	Feb 25/Wed	Feb 26	9 34	18 43	20 09	6 00	7 26	5 42	15 35	6 51	16 10	4	21 10.9	-20 20	9.9
Wed	Feb 26/Thu	Feb 27	9 38	18 44	20 10	5 59	7 25	5 47	15 37	7 23	17 23	1	22 05.2	-14 50	9.8
Thu	Feb 27/Fri	Feb 28	9 41	18 45	20 11	5 57	7 23	5 52	15 40	.....	18 37	0	22 57.9	- 8 26	9.8
Fri	Feb 28/Sat	Mar 01	9 45	18 45	20 12	5 56	7 22	5 56	15 42	.....	19 50	2	23 49.6	- 1 31	9.7

Calendar for Okie-Tex, west longitude (h.m.s) = 6 51 48, latitude (d.m) = 36 53.9
 Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 MARCH *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Sat Mar 01/Sun Mar 02	9 49	18 46	20 13	5 55	7 21	6 01	15 45	.....	21 03	7	0 41.3	5 31	9.7
Sun Mar 02/Mon Mar 03	9 53	18 47	20 14	5 53	7 19	6 06	15 48	.....	22 17	14	1 34.3	12 14	9.7
Mon Mar 03/Tue Mar 04	9 57	18 48	20 15	5 52	7 18	6 11	15 50	.....	23 33	23	2 29.5	18 13	9.6
Tue Mar 04/Wed Mar 05	10 01	18 49	20 15	5 51	7 17	6 16	15 53	.....	0 48	33	3 27.3	23 05	9.6
Wed Mar 05/Thu Mar 06	10 05	18 50	20 16	5 49	7 15	6 21	15 55	.....	2 01	44	4 27.8	26 29	9.5
Thu Mar 06/Fri Mar 07	10 09	18 51	20 17	5 48	7 14	6 26	15 58	.....	3 08	56	5 29.8	28 11	9.5
Fri Mar 07/Sat Mar 08	10 13	18 52	20 18	5 46	7 12	6 31	16 00	.....	4 05	66	6 31.5	28 07	9.5
Sat Mar 08/Sun Mar 09*	10 17	18 53	20 19	6 45	8 11	6 36	16 03	.....	5 53	76	7 31.0	26 22	9.4
Sun Mar 09/Mon Mar 10	9 21	19 54	21 20	6 43	8 09	6 40	16 05	.....	6 31	84	8 25.7	23 23	9.4
Mon Mar 10/Tue Mar 11	9 25	19 55	21 21	6 42	8 08	6 45	16 08	16 33	7 03	91	9 18.0	19 07	9.3
Tue Mar 11/Wed Mar 12	9 29	19 56	21 22	6 40	8 07	6 50	16 10	17 38	7 29	96	10 06.7	14 03	9.3
Wed Mar 12/Thu Mar 13	9 33	19 57	21 23	6 39	8 05	6 55	16 13	18 40	.....	99	10 52.5	8 28	9.3
Thu Mar 13/Fri Mar 14	9 36	19 58	21 24	6 37	8 04	7 00	16 15	19 39	.....	100	11 36.3	2 39	9.2
Fri Mar 14/Sat Mar 15	9 40	19 59	21 25	6 36	8 02	7 05	16 17	20 37	.....	99	12 19.1	- 3 12	9.2
Sat Mar 15/Sun Mar 16	9 44	20 00	21 26	6 34	8 01	7 10	16 20	21 35	.....	96	13 01.9	- 8 54	9.1
Sun Mar 16/Mon Mar 17	9 48	20 00	21 27	6 33	7 59	7 15	16 22	22 33	.....	92	13 45.5	-14 14	9.1
Mon Mar 17/Tue Mar 18	9 52	20 01	21 28	6 31	7 58	7 20	16 25	23 33	.....	86	14 30.7	-19 02	9.1
Tue Mar 18/Wed Mar 19	9 56	20 02	21 29	6 30	7 56	7 25	16 27	0 34	.....	79	15 18.3	-23 07	9.0
Wed Mar 19/Thu Mar 20	10 00	20 03	21 30	6 28	7 55	7 30	16 29	1 35	.....	71	16 08.7	-26 16	9.0
Thu Mar 20/Fri Mar 21	10 04	20 04	21 31	6 27	7 53	7 35	16 32	2 35	.....	62	17 01.8	-28 18	8.9
Fri Mar 21/Sat Mar 22	10 08	20 05	21 32	6 25	7 52	7 40	16 34	3 32	.....	52	17 57.2	-29 02	8.9
Sat Mar 22/Sun Mar 23	10 12	20 06	21 33	6 23	7 50	7 44	16 36	4 23	.....	42	18 53.7	-28 20	8.8
Sun Mar 23/Mon Mar 24	10 16	20 07	21 34	6 22	7 49	7 49	16 39	5 07	.....	32	19 50.3	-26 09	8.8
Mon Mar 24/Tue Mar 25	10 20	20 08	21 35	6 20	7 47	7 54	16 41	5 46	.....	23	20 45.9	-22 32	8.8
Tue Mar 25/Wed Mar 26	10 24	20 08	21 36	6 19	7 46	7 59	16 43	6 19	.....	14	21 40.0	-17 38	8.7
Wed Mar 26/Thu Mar 27	10 28	20 09	21 37	6 17	7 44	8 04	16 46	6 48	17 10	7	22 32.8	-11 41	8.7
Thu Mar 27/Fri Mar 28	10 32	20 10	21 38	6 15	7 43	8 09	16 48	7 16	18 23	2	23 24.7	- 4 58	8.6
Fri Mar 28/Sat Mar 29	10 36	20 11	21 39	6 14	7 41	8 14	16 50	.....	19 37	0	0 16.8	2 07	8.6
Sat Mar 29/Sun Mar 30	10 40	20 12	21 40	6 12	7 40	8 19	16 53	.....	20 52	1	1 10.1	9 10	8.5
Sun Mar 30/Mon Mar 31	10 44	20 13	21 41	6 10	7 39	8 24	16 55	.....	22 09	4	2 05.7	15 42	8.5
Mon Mar 31/Tue Apr 01	10 47	20 14	21 42	6 09	7 37	8 29	16 57	.....	23 28	11	3 04.3	21 15	8.4

***** 2025 APRIL *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Tue Apr 01/Wed Apr 02	10 51	20 15	21 43	6 07	7 36	8 34	16 59	.....	0 45	19	4 05.8	25 22	8.4
Wed Apr 02/Thu Apr 03	10 55	20 15	21 44	6 05	7 34	8 39	17 02	.....	1 57	29	5 09.3	27 44	8.4
Thu Apr 03/Fri Apr 04	10 59	20 16	21 45	6 04	7 33	8 44	17 04	.....	3 00	40	6 12.7	28 14	8.3
Fri Apr 04/Sat Apr 05	11 03	20 17	21 46	6 02	7 31	8 49	17 06	.....	3 51	51	7 14.0	26 57	8.3
Sat Apr 05/Sun Apr 06	11 07	20 18	21 48	6 00	7 30	8 54	17 09	.....	4 33	61	8 11.5	24 08	8.2
Sun Apr 06/Mon Apr 07	11 11	20 19	21 49	5 59	7 28	8 59	17 11	.....	5 06	71	9 04.8	20 07	8.2
Mon Apr 07/Tue Apr 08	11 15	20 20	21 50	5 57	7 27	9 04	17 13	.....	5 34	80	9 54.1	15 16	8.1
Tue Apr 08/Wed Apr 09	11 19	20 21	21 51	5 55	7 26	9 10	17 15	.....	5 58	87	10 40.1	9 51	8.1
Wed Apr 09/Thu Apr 10	11 23	20 22	21 52	5 54	7 24	9 15	17 18	17 32	6 20	93	11 24.0	4 08	8.0
Thu Apr 10/Fri Apr 11	11 27	20 22	21 53	5 52	7 23	9 20	17 20	18 31	6 41	97	12 06.8	- 1 42	8.0
Fri Apr 11/Sat Apr 12	11 31	20 23	21 54	5 50	7 21	9 25	17 22	19 28	.....	99	12 49.4	- 7 25	7.9
Sat Apr 12/Sun Apr 13	11 35	20 24	21 55	5 49	7 20	9 30	17 24	20 26	.....	100	13 32.7	-12 53	7.9
Sun Apr 13/Mon Apr 14	11 39	20 25	21 57	5 47	7 19	9 35	17 27	21 25	.....	98	14 17.7	-17 52	7.8
Mon Apr 14/Tue Apr 15	11 43	20 26	21 58	5 45	7 17	9 40	17 29	22 25	.....	95	15 04.9	-22 11	7.8
Tue Apr 15/Wed Apr 16	11 47	20 27	21 59	5 44	7 16	9 45	17 31	23 26	.....	91	15 54.8	-25 37	7.7
Wed Apr 16/Thu Apr 17	11 51	20 28	22 00	5 42	7 15	9 50	17 34	0 27	.....	84	16 47.4	-27 58	7.7
Thu Apr 17/Fri Apr 18	11 54	20 29	22 01	5 41	7 13	9 55	17 36	1 24	.....	77	17 42.0	-29 03	7.7
Fri Apr 18/Sat Apr 19	11 58	20 29	22 03	5 39	7 12	10 01	17 38	2 17	.....	68	18 37.8	-28 45	7.6
Sat Apr 19/Sun Apr 20	12 02	20 30	22 04	5 37	7 11	10 06	17 41	3 03	.....	58	19 33.6	-27 01	7.6
Sun Apr 20/Mon Apr 21	12 06	20 31	22 05	5 36	7 09	10 11	17 43	3 42	.....	48	20 28.3	-23 54	7.5
Mon Apr 21/Tue Apr 22	12 10	20 32	22 06	5 34	7 08	10 16	17 45	4 16	.....	38	21 21.5	-19 32	7.5
Tue Apr 22/Wed Apr 23	12 14	20 33	22 07	5 32	7 07	10 21	17 48	4 46	.....	27	22 13.2	-14 06	7.4
Wed Apr 23/Thu Apr 24	12 18	20 34	22 09	5 31	7 06	10 26	17 50	5 14	.....	18	23 03.9	- 7 51	7.4
Thu Apr 24/Fri Apr 25	12 22	20 35	22 10	5 29	7 04	10 32	17 52	5 41	.....	10	23 54.7	- 1 02	7.3
Fri Apr 25/Sat Apr 26	12 26	20 36	22 11	5 28	7 03	10 37	17 55	6 09	18 24	4	0 46.7	5 58	7.3
Sat Apr 26/Sun Apr 27	12 30	20 37	22 12	5 26	7 02	10 42	17 57	6 41	19 39	1	1 41.1	12 44	7.2
Sun Apr 27/Mon Apr 28	12 34	20 37	22 14	5 25	7 01	10 47	17 59	.....	20 58	0	2 38.8	18 47	7.2
Mon Apr 28/Tue Apr 29	12 38	20 38	22 15	5 23	7 00	10 52	18 02	.....	22 18	3	3 40.2	23 36	7.1
Tue Apr 29/Wed Apr 30	12 42	20 39	22 16	5 22	6 58	10 58	18 04	.....	23 36	8	4 44.6	26 45	7.1
Wed Apr 30/Thu May 01	12 46	20 40	22 17	5 20	6 57	11 03	18 07	0 45	16	5 50.0	27 58	7.0

Calendar for Okie-Tex, west longitude (h.m.s) = 6 51 48, latitude (d.m) = 36 53.9
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***** 2025 MAY *****

Date (eve/morn)		LMST	----- Sun: -----				LST twilight:		----- Moon: -----				Twi-Twi	
		midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Thu May 01/Fri May 02		12 50	20 41	22 19	5 19	6 56	11 08	18 09	.....	1 44	25	6 53.9	27 14	7.0
Fri May 02/Sat May 03		12 54	20 42	22 20	5 17	6 55	11 13	18 12	.....	2 30	35	7 54.1	24 49	7.0
Sat May 03/Sun May 04		12 58	20 43	22 21	5 16	6 54	11 18	18 14	.....	3 07	46	8 49.5	21 04	6.9
Sun May 04/Mon May 05		13 01	20 44	22 22	5 14	6 53	11 24	18 17	.....	3 37	56	9 40.4	16 23	6.9
Mon May 05/Tue May 06		13 05	20 45	22 24	5 13	6 52	11 29	18 19	.....	4 03	66	10 27.5	11 05	6.8
Tue May 06/Wed May 07		13 09	20 45	22 25	5 11	6 51	11 34	18 22	.....	4 25	75	11 11.9	5 26	6.8
Wed May 07/Thu May 08		13 13	20 46	22 26	5 10	6 50	11 39	18 24	.....	4 47	83	11 54.8	- 0 21	6.7
Thu May 08/Fri May 09		13 17	20 47	22 28	5 09	6 49	11 45	18 27	.....	5 08	89	12 37.3	- 6 05	6.7
Fri May 09/Sat May 10		13 21	20 48	22 29	5 07	6 48	11 50	18 29	18 20	5 31	95	13 20.3	-11 35	6.6
Sat May 10/Sun May 11		13 25	20 49	22 30	5 06	6 47	11 55	18 32	19 18	5 55	98	14 04.8	-16 42	6.6
Sun May 11/Mon May 12		13 29	20 50	22 31	5 05	6 46	12 00	18 35	20 18	6 24	100	14 51.6	-21 12	6.6
Mon May 12/Tue May 13		13 33	20 51	22 33	5 03	6 45	12 05	18 37	21 19	.....	100	15 41.2	-24 53	6.5
Tue May 13/Wed May 14		13 37	20 51	22 34	5 02	6 45	12 11	18 40	22 20	.....	98	16 33.5	-27 32	6.5
Wed May 14/Thu May 15		13 41	20 52	22 35	5 01	6 44	12 16	18 43	23 19	.....	94	17 28.2	-28 56	6.4
Thu May 15/Fri May 16		13 45	20 53	22 36	5 00	6 43	12 21	18 45	0 13	.....	88	18 24.2	-28 57	6.4
Fri May 16/Sat May 17		13 49	20 54	22 38	4 59	6 42	12 26	18 48	1 00	.....	81	19 20.1	-27 33	6.3
Sat May 17/Sun May 18		13 53	20 55	22 39	4 57	6 41	12 31	18 51	1 41	.....	73	20 14.8	-24 46	6.3
Sun May 18/Mon May 19		13 57	20 56	22 40	4 56	6 41	12 36	18 54	2 16	.....	63	21 07.6	-20 45	6.3
Mon May 19/Tue May 20		14 01	20 56	22 41	4 55	6 40	12 42	18 57	2 46	.....	53	21 58.6	-15 42	6.2
Tue May 20/Wed May 21		14 05	20 57	22 42	4 54	6 39	12 47	19 00	3 14	.....	42	22 48.2	- 9 50	6.2
Wed May 21/Thu May 22		14 09	20 58	22 44	4 53	6 39	12 52	19 02	3 40	.....	31	23 37.4	- 3 23	6.2
Thu May 22/Fri May 23		14 12	20 59	22 45	4 52	6 38	12 57	19 05	4 07	.....	21	0 27.3	3 21	6.1
Fri May 23/Sat May 24		14 16	21 00	22 46	4 51	6 38	13 02	19 08	4 36	.....	12	1 19.3	10 03	6.1
Sat May 24/Sun May 25		14 20	21 00	22 47	4 50	6 37	13 07	19 11	5 09	18 30	6	2 14.5	16 17	6.1
Sun May 25/Mon May 26		14 24	21 01	22 48	4 49	6 36	13 12	19 14	5 49	19 48	1	3 13.7	21 34	6.0
Mon May 26/Tue May 27		14 28	21 02	22 49	4 48	6 36	13 17	19 18	.....	21 07	0	4 16.9	25 25	6.0
Tue May 27/Wed May 28		14 32	21 03	22 50	4 48	6 35	13 22	19 21	.....	22 22	2	5 22.6	27 25	6.0
Wed May 28/Thu May 29		14 36	21 03	22 51	4 47	6 35	13 27	19 24	.....	23 28	6	6 28.4	27 26	5.9
Thu May 29/Fri May 30		14 40	21 04	22 52	4 46	6 35	13 32	19 27	.....	0 21	13	7 31.4	25 34	5.9
Fri May 30/Sat May 31		14 44	21 05	22 53	4 45	6 34	13 37	19 30	.....	1 03	21	8 29.8	22 11	5.9
Sat May 31/Sun Jun 01		14 48	21 05	22 54	4 45	6 34	13 42	19 33	.....	1 37	30	9 23.3	17 40	5.8

***** 2025 JUNE *****

Date (eve/morn)		LMST	----- Sun: -----				LST twilight:		----- Moon: -----				Twi-Twi	
		midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Sun Jun 01/Mon Jun 02		14 52	21 06	22 55	4 44	6 34	13 47	19 37	.....	2 05	40	10 12.4	12 27	5.8
Mon Jun 02/Tue Jun 03		14 56	21 07	22 56	4 44	6 33	13 52	19 40	.....	2 29	50	10 58.1	6 50	5.8
Tue Jun 03/Wed Jun 04		15 00	21 07	22 57	4 43	6 33	13 57	19 44	.....	2 51	60	11 41.7	1 02	5.8
Wed Jun 04/Thu Jun 05		15 04	21 08	22 58	4 43	6 33	14 02	19 47	.....	3 12	69	12 24.3	- 4 43	5.7
Thu Jun 05/Fri Jun 06		15 08	21 08	22 59	4 42	6 33	14 06	19 50	.....	3 35	78	13 07.1	-10 17	5.7
Fri Jun 06/Sat Jun 07		15 12	21 09	23 00	4 42	6 32	14 11	19 54	.....	3 59	85	13 51.2	-15 29	5.7
Sat Jun 07/Sun Jun 08		15 16	21 09	23 00	4 41	6 32	14 16	19 58	18 10	4 26	91	14 37.3	-20 10	5.7
Sun Jun 08/Mon Jun 09		15 19	21 10	23 01	4 41	6 32	14 20	20 01	19 11	4 58	96	15 26.2	-24 05	5.7
Mon Jun 09/Tue Jun 10		15 23	21 10	23 02	4 41	6 32	14 25	20 05	20 12	5 36	99	16 18.2	-27 01	5.6
Tue Jun 10/Wed Jun 11		15 27	21 11	23 02	4 40	6 32	14 30	20 09	21 12	6 22	100	17 12.9	-28 46	5.6
Wed Jun 11/Thu Jun 12		15 31	21 11	23 03	4 40	6 32	14 34	20 12	22 08	.....	99	18 09.4	-29 07	5.6
Thu Jun 12/Fri Jun 13		15 35	21 12	23 04	4 40	6 32	14 39	20 16	22 58	.....	96	19 06.1	-28 01	5.6
Fri Jun 13/Sat Jun 14		15 39	21 12	23 04	4 40	6 32	14 43	20 20	23 41	.....	91	20 01.8	-25 30	5.6
Sat Jun 14/Sun Jun 15		15 43	21 13	23 05	4 40	6 32	14 48	20 24	0 18	.....	85	20 55.5	-21 42	5.6
Sun Jun 15/Mon Jun 16		15 47	21 13	23 05	4 40	6 32	14 52	20 28	0 49	.....	76	21 46.9	-16 49	5.6
Mon Jun 16/Tue Jun 17		15 51	21 13	23 06	4 40	6 32	14 56	20 32	1 17	.....	67	22 36.5	-11 08	5.6
Tue Jun 17/Wed Jun 18		15 55	21 14	23 06	4 40	6 32	15 01	20 36	1 43	.....	56	23 25.0	- 4 54	5.6
Wed Jun 18/Thu Jun 19		15 59	21 14	23 06	4 40	6 33	15 05	20 40	2 08	.....	45	0 13.6	1 39	5.6
Thu Jun 19/Fri Jun 20		16 03	21 14	23 07	4 40	6 33	15 09	20 44	2 35	.....	34	1 03.5	8 12	5.6
Fri Jun 20/Sat Jun 21		16 07	21 14	23 07	4 40	6 33	15 13	20 48	3 06	.....	24	1 56.0	14 24	5.6
Sat Jun 21/Sun Jun 22		16 11	21 15	23 07	4 41	6 33	15 18	20 52	3 41	.....	14	2 52.3	19 51	5.6
Sun Jun 22/Mon Jun 23		16 15	21 15	23 07	4 41	6 33	15 22	20 56	4 25	18 42	7	3 52.7	24 08	5.6
Mon Jun 23/Tue Jun 24		16 19	21 15	23 07	4 41	6 34	15 26	21 01	5 19	19 58	2	4 56.5	26 47	5.6
Tue Jun 24/Wed Jun 25		16 23	21 15	23 07	4 42	6 34	15 30	21 05	6 23	21 08	0	6 02.0	27 31	5.6
Wed Jun 25/Thu Jun 26		16 27	21 15	23 07	4 42	6 34	15 34	21 09	.....	22 08	1	7 06.2	26 20	5.6
Thu Jun 26/Fri Jun 27		16 30	21 15	23 07	4 43	6 35	15 38	21 14	.....	22 55	4	8 06.9	23 26	5.6
Fri Jun 27/Sat Jun 28		16 34	21 15	23 07	4 43	6 35	15 41	21 18	.....	23 33	9	9 02.9	19 14	5.6
Sat Jun 28/Sun Jun 29		16 38	21 15	23 07	4 44	6 36	15 45	21 23	.....	0 04	17	9 54.3	14 08	5.6
Sun Jun 29/Mon Jun 30		16 42	21 15	23 07	4 44	6 36	15 49	21 27	.....	0 30	25	10 41.7	8 32	5.6
Mon Jun 30/Tue Jul 01		16 46	21 15	23 07	4 45	6 36	15 53	21 32	.....	0 53	34	11 26.5	2 42	5.6

Calendar for Okie-Tex, west longitude (h.m.s) = 6 51 48, latitude (d.m) = 36 53.9
 Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 JULY *****

Date (eve/morn)		LMST	----- Sun: -----				LST twilight:		----- Moon: -----				Twi-Twi	
		midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Tue Jul 01/Wed Jul 02		16 50	21 15	23 06	4 46	6 37	15 56	21 36	.....	1 15	44	12 09.8	- 3 09	5.7
Wed Jul 02/Thu Jul 03		16 54	21 15	23 06	4 46	6 37	16 00	21 41	.....	1 37	53	12 52.7	- 8 49	5.7
Thu Jul 03/Fri Jul 04		16 58	21 15	23 06	4 47	6 38	16 04	21 46	.....	2 01	63	13 36.3	-14 09	5.7
Fri Jul 04/Sat Jul 05		17 02	21 15	23 05	4 48	6 38	16 07	21 50	.....	2 27	72	14 21.7	-18 59	5.7
Sat Jul 05/Sun Jul 06		17 06	21 14	23 05	4 49	6 39	16 11	21 55	.....	2 57	80	15 09.7	-23 07	5.7
Sun Jul 06/Mon Jul 07		17 10	21 14	23 04	4 49	6 40	16 14	22 00	18 02	3 33	87	16 00.7	-26 22	5.7
Mon Jul 07/Tue Jul 08		17 14	21 14	23 04	4 50	6 40	16 18	22 05	19 03	4 16	93	16 54.8	-28 29	5.8
Tue Jul 08/Wed Jul 09		17 18	21 14	23 03	4 51	6 41	16 21	22 10	20 01	5 08	97	17 51.3	-29 16	5.8
Wed Jul 09/Thu Jul 10		17 22	21 13	23 03	4 52	6 41	16 24	22 14	20 53	6 07	99	18 48.8	-28 34	5.8
Thu Jul 10/Fri Jul 11		17 26	21 13	23 02	4 53	6 42	16 28	22 19	21 39	.....	100	19 45.8	-26 22	5.8
Fri Jul 11/Sat Jul 12		17 30	21 13	23 01	4 54	6 43	16 31	22 24	22 18	.....	98	20 41.1	-22 48	5.9
Sat Jul 12/Sun Jul 13		17 34	21 12	23 01	4 55	6 43	16 34	22 29	22 51	.....	94	21 34.0	-18 03	5.9
Sun Jul 13/Mon Jul 14		17 37	21 12	23 00	4 56	6 44	16 37	22 34	23 20	.....	87	22 24.8	-12 25	5.9
Mon Jul 14/Tue Jul 15		17 41	21 11	22 59	4 57	6 45	16 40	22 39	23 47	.....	79	23 13.9	- 6 10	6.0
Tue Jul 15/Wed Jul 16		17 45	21 11	22 58	4 58	6 45	16 43	22 44	0 12	.....	70	0 02.6	0 23	6.0
Wed Jul 16/Thu Jul 17		17 49	21 10	22 57	4 59	6 46	16 46	22 49	0 38	.....	59	0 51.9	6 56	6.0
Thu Jul 17/Fri Jul 18		17 53	21 10	22 56	5 00	6 47	16 49	22 54	1 07	.....	48	1 43.2	13 10	6.1
Fri Jul 18/Sat Jul 19		17 57	21 09	22 55	5 01	6 47	16 52	22 59	1 39	.....	36	2 37.4	18 44	6.1
Sat Jul 19/Sun Jul 20		18 01	21 09	22 54	5 02	6 48	16 55	23 04	2 19	.....	26	3 35.3	23 13	6.1
Sun Jul 20/Mon Jul 21		18 05	21 08	22 53	5 03	6 49	16 58	23 09	3 07	17 42	16	4 36.7	26 16	6.2
Mon Jul 21/Tue Jul 22		18 09	21 07	22 52	5 05	6 50	17 01	23 14	4 06	18 52	9	5 40.3	27 33	6.2
Tue Jul 22/Wed Jul 23		18 13	21 07	22 51	5 06	6 50	17 04	23 20	5 13	19 55	3	6 43.9	26 58	6.2
Wed Jul 23/Thu Jul 24		18 17	21 06	22 50	5 07	6 51	17 07	23 25	6 25	20 47	1	7 45.2	24 38	6.3
Thu Jul 24/Fri Jul 25		18 21	21 05	22 49	5 08	6 52	17 10	23 30	.....	21 28	0	8 42.5	20 51	6.3
Fri Jul 25/Sat Jul 26		18 25	21 04	22 48	5 09	6 53	17 12	23 35	.....	22 02	2	9 35.4	16 00	6.4
Sat Jul 26/Sun Jul 27		18 29	21 03	22 47	5 10	6 54	17 15	23 40	.....	22 30	7	10 24.3	10 30	6.4
Sun Jul 27/Mon Jul 28		18 33	21 03	22 45	5 12	6 54	17 18	23 45	.....	22 55	12	11 10.2	4 39	6.4
Mon Jul 28/Tue Jul 29		18 37	21 02	22 44	5 13	6 55	17 21	23 50	.....	23 17	20	11 54.2	- 1 17	6.5
Tue Jul 29/Wed Jul 30		18 41	21 01	22 43	5 14	6 56	17 23	23 55	.....	23 39	28	12 37.4	- 7 04	6.5
Wed Jul 30/Thu Jul 31		18 44	21 00	22 42	5 15	6 57	17 26	0 01	.....	0 02	37	13 20.9	-12 33	6.6
Thu Jul 31/Fri Aug 01		18 48	20 59	22 40	5 16	6 58	17 28	0 06	.....	0 27	47	14 05.6	-17 35	6.6

***** 2025 AUGUST *****

Date (eve/morn)		LMST	----- Sun: -----				LST twilight:		----- Moon: -----				Twi-Twi	
		midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Fri Aug 01/Sat Aug 02		18 52	20 58	22 39	5 18	6 58	17 31	0 11	.....	0 55	56	14 52.5	-21 57	6.6
Sat Aug 02/Sun Aug 03		18 56	20 57	22 37	5 19	6 59	17 34	0 16	.....	1 29	65	15 42.2	-25 30	6.7
Sun Aug 03/Mon Aug 04		19 00	20 56	22 36	5 20	7 00	17 36	0 21	.....	2 09	74	16 34.9	-28 00	6.7
Mon Aug 04/Tue Aug 05		19 04	20 55	22 35	5 21	7 01	17 39	0 26	17 50	2 57	82	17 30.4	-29 15	6.8
Tue Aug 05/Wed Aug 06		19 08	20 54	22 33	5 23	7 02	17 41	0 32	18 45	3 54	89	18 27.6	-29 04	6.8
Wed Aug 06/Thu Aug 07		19 12	20 53	22 32	5 24	7 03	17 44	0 37	19 34	4 57	95	19 25.2	-27 22	6.9
Thu Aug 07/Fri Aug 08		19 16	20 52	22 30	5 25	7 03	17 46	0 42	20 15	6 05	98	20 21.8	-24 12	6.9
Fri Aug 08/Sat Aug 09		19 20	20 51	22 29	5 26	7 04	17 49	0 47	20 51	.....	100	21 16.4	-19 43	7.0
Sat Aug 09/Sun Aug 10		19 24	20 50	22 27	5 27	7 05	17 51	0 52	21 22	.....	99	22 08.9	-14 11	7.0
Sun Aug 10/Mon Aug 11		19 28	20 49	22 26	5 29	7 06	17 53	0 57	21 50	.....	96	22 59.8	- 7 54	7.0
Mon Aug 11/Tue Aug 12		19 32	20 47	22 24	5 30	7 07	17 56	1 03	22 16	.....	90	23 49.7	- 1 12	7.1
Tue Aug 12/Wed Aug 13		19 36	20 46	22 23	5 31	7 07	17 58	1 08	22 42	.....	82	0 39.9	5 34	7.1
Wed Aug 13/Thu Aug 14		19 40	20 45	22 21	5 32	7 08	18 01	1 13	23 10	.....	72	1 31.4	12 01	7.2
Thu Aug 14/Fri Aug 15		19 44	20 44	22 20	5 33	7 09	18 03	1 18	23 41	.....	61	2 25.3	17 49	7.2
Fri Aug 15/Sat Aug 16		19 48	20 43	22 18	5 35	7 10	18 05	1 23	0 18	.....	50	3 22.4	22 34	7.3
Sat Aug 16/Sun Aug 17		19 52	20 41	22 16	5 36	7 11	18 08	1 28	1 03	.....	38	4 22.6	25 55	7.3
Sun Aug 17/Mon Aug 18		19 55	20 40	22 15	5 37	7 12	18 10	1 33	1 57	.....	28	5 24.9	27 36	7.4
Mon Aug 18/Tue Aug 19		19 59	20 39	22 13	5 38	7 12	18 12	1 38	3 00	17 47	18	6 27.5	27 28	7.4
Tue Aug 19/Wed Aug 20		20 03	20 38	22 12	5 39	7 13	18 15	1 44	4 09	18 41	10	7 28.2	25 35	7.5
Wed Aug 20/Thu Aug 21		20 07	20 36	22 10	5 40	7 14	18 17	1 49	5 20	19 25	5	8 25.6	22 14	7.5
Thu Aug 21/Fri Aug 22		20 11	20 35	22 08	5 42	7 15	18 19	1 54	6 29	20 01	1	9 18.9	17 43	7.6
Fri Aug 22/Sat Aug 23		20 15	20 34	22 07	5 43	7 16	18 22	1 59	.....	20 31	0	10 08.5	12 25	7.6
Sat Aug 23/Sun Aug 24		20 19	20 32	22 05	5 44	7 17	18 24	2 04	.....	20 56	1	10 55.0	6 40	7.6
Sun Aug 24/Mon Aug 25		20 23	20 31	22 03	5 45	7 17	18 26	2 09	.....	21 19	4	11 39.4	0 44	7.7
Mon Aug 25/Tue Aug 26		20 27	20 30	22 02	5 46	7 18	18 28	2 14	.....	21 42	9	12 22.7	- 5 09	7.7
Tue Aug 26/Wed Aug 27		20 31	20 28	22 00	5 47	7 19	18 31	2 19	.....	22 04	15	13 06.0	-10 46	7.8
Wed Aug 27/Thu Aug 28		20 35	20 27	21 58	5 48	7 20	18 33	2 24	.....	22 28	22	13 50.2	-15 58	7.8
Thu Aug 28/Fri Aug 29		20 39	20 25	21 57	5 49	7 21	18 35	2 29	.....	22 55	31	14 36.2	-20 34	7.9
Fri Aug 29/Sat Aug 30		20 43	20 24	21 55	5 50	7 21	18 37	2 34	.....	23 26	40	15 24.5	-24 24	7.9
Sat Aug 30/Sun Aug 31		20 47	20 22	21 53	5 51	7 22	18 40	2 39	.....	0 03	49	16 15.6	-27 16	8.0
Sun Aug 31/Mon Sep 01		20 51	20 21	21 52	5 53	7 23	18 42	2 44	.....	0 47	59	17 09.4	-28 57	8.0

Calendar for Okie-Tex, west longitude (h.m.s) = 6 51 48, latitude (d.m) = 36 53.9
 Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 SEPTEMBER *****

Date (eve/morn)	LMST midn	----- Sun: -----					LST twilight:		----- Moon: -----					RA	Dec	Twi-Twi hours
		set	twi.end	twi.beg	rise	rise	eve	morn	rise	set	%illum					
Mon Sep 01/Tue Sep 02	20 55	20 20	21 50	5 54	7 24	18 44	2 49	.....	1 40	68	18 05.3	-29 19	8.1		
Tue Sep 02/Wed Sep 03	20 59	20 18	21 48	5 55	7 25	18 46	2 54	17 25	2 40	77	19 02.2	-28 12	8.1			
Wed Sep 03/Thu Sep 04	21 02	20 17	21 46	5 56	7 25	18 49	2 59	18 09	3 45	85	19 58.7	-25 38	8.2			
Thu Sep 04/Fri Sep 05	21 06	20 15	21 45	5 57	7 26	18 51	3 04	18 48	4 54	92	20 54.1	-21 39	8.2			
Fri Sep 05/Sat Sep 06	21 10	20 14	21 43	5 58	7 27	18 53	3 09	19 20	6 04	97	21 47.7	-16 28	8.2			
Sat Sep 06/Sun Sep 07	21 14	20 12	21 41	5 59	7 28	18 55	3 14	19 50	.....	100	22 39.9	-10 20	8.3		
Sun Sep 07/Mon Sep 08	21 18	20 11	21 40	6 00	7 29	18 58	3 19	20 17	.....	100	23 31.2	- 3 34	8.3		
Mon Sep 08/Tue Sep 09	21 22	20 09	21 38	6 01	7 29	19 00	3 24	20 43	.....	97	0 22.7	3 25	8.4		
Tue Sep 09/Wed Sep 10	21 26	20 08	21 36	6 02	7 30	19 02	3 29	21 11	.....	92	1 15.4	10 15	8.4		
Wed Sep 10/Thu Sep 11	21 30	20 06	21 35	6 03	7 31	19 04	3 34	21 42	.....	84	2 10.3	16 29	8.5		
Thu Sep 11/Fri Sep 12	21 34	20 05	21 33	6 04	7 32	19 07	3 39	22 18	.....	74	3 08.2	21 42	8.5		
Fri Sep 12/Sat Sep 13	21 38	20 03	21 31	6 05	7 33	19 09	3 44	23 00	.....	63	4 09.0	25 29	8.6		
Sat Sep 13/Sun Sep 14	21 42	20 02	21 30	6 06	7 34	19 11	3 49	23 52	.....	52	5 11.8	27 33	8.6		
Sun Sep 14/Mon Sep 15	21 46	20 00	21 28	6 07	7 34	19 13	3 53	0 53	.....	41	6 14.6	27 48	8.6		
Mon Sep 15/Tue Sep 16	21 50	19 59	21 26	6 08	7 35	19 16	3 58	2 00	.....	30	7 15.6	26 17	8.7		
Tue Sep 16/Wed Sep 17	21 54	19 57	21 25	6 08	7 36	19 18	4 03	3 09	17 25	21	8 13.0	23 15	8.7			
Wed Sep 17/Thu Sep 18	21 58	19 56	21 23	6 09	7 37	19 20	4 08	4 17	18 02	13	9 06.5	19 03	8.8			
Thu Sep 18/Fri Sep 19	22 02	19 54	21 21	6 10	7 38	19 22	4 13	5 23	18 33	7	9 56.1	14 00	8.8			
Fri Sep 19/Sat Sep 20	22 06	19 53	21 20	6 11	7 38	19 25	4 18	6 26	18 59	3	10 42.6	8 25	8.9			
Sat Sep 20/Sun Sep 21	22 10	19 51	21 18	6 12	7 39	19 27	4 23	.....	19 23	0	11 26.9	2 35	8.9		
Sun Sep 21/Mon Sep 22	22 13	19 50	21 16	6 13	7 40	19 29	4 28	.....	19 45	0	12 10.1	- 3 17	8.9		
Mon Sep 22/Tue Sep 23	22 17	19 48	21 15	6 14	7 41	19 32	4 32	.....	20 08	2	12 53.1	- 8 59	9.0		
Tue Sep 23/Wed Sep 24	22 21	19 47	21 13	6 15	7 42	19 34	4 37	.....	20 31	5	13 36.8	-14 19	9.0		
Wed Sep 24/Thu Sep 25	22 25	19 45	21 12	6 16	7 42	19 36	4 42	.....	20 57	10	14 22.0	-19 06	9.1		
Thu Sep 25/Fri Sep 26	22 29	19 44	21 10	6 17	7 43	19 39	4 47	.....	21 26	17	15 09.3	-23 09	9.1		
Fri Sep 26/Sat Sep 27	22 33	19 42	21 08	6 18	7 44	19 41	4 52	.....	22 00	24	15 59.1	-26 18	9.2		
Sat Sep 27/Sun Sep 28	22 37	19 41	21 07	6 19	7 45	19 43	4 57	.....	22 41	33	16 51.3	-28 22	9.2		
Sun Sep 28/Mon Sep 29	22 41	19 39	21 05	6 19	7 46	19 46	5 02	.....	23 30	42	17 45.6	-29 10	9.2		
Mon Sep 29/Tue Sep 30	22 45	19 38	21 04	6 20	7 47	19 48	5 06	.....	0 25	51	18 40.9	-28 37	9.3		
Tue Sep 30/Wed Oct 01	22 49	19 36	21 02	6 21	7 47	19 51	5 11	.....	1 27	61	19 36.3	-26 38	9.3		

***** 2025 OCTOBER *****

Date (eve/morn)	LMST midn	----- Sun: -----					LST twilight:		----- Moon: -----					RA	Dec	Twi-Twi hours
		set	twi.end	twi.beg	rise	rise	eve	morn	rise	set	%illum					
Wed Oct 01/Thu Oct 02	22 53	19 35	21 01	6 22	7 48	19 53	5 16	16 42	2 34	71	20 30.9	-23 18	9.4			
Thu Oct 02/Fri Oct 03	22 57	19 33	20 59	6 23	7 49	19 55	5 21	17 17	3 42	80	21 24.2	-18 42	9.4			
Fri Oct 03/Sat Oct 04	23 01	19 32	20 58	6 24	7 50	19 58	5 26	17 47	4 51	88	22 16.2	-13 02	9.4			
Sat Oct 04/Sun Oct 05	23 05	19 30	20 56	6 25	7 51	20 00	5 31	18 15	6 01	95	23 07.7	- 6 32	9.5			
Sun Oct 05/Mon Oct 06	23 09	19 29	20 55	6 26	7 52	20 03	5 35	18 42	7 13	99	23 59.4	0 27	9.5			
Mon Oct 06/Tue Oct 07	23 13	19 27	20 53	6 26	7 53	20 05	5 40	19 10	.....	100	0 52.6	7 32	9.6		
Tue Oct 07/Wed Oct 08	23 17	19 26	20 52	6 27	7 53	20 08	5 45	19 39	.....	98	1 48.2	14 15	9.6		
Wed Oct 08/Thu Oct 09	23 20	19 24	20 50	6 28	7 54	20 10	5 50	20 14	.....	94	2 47.1	20 05	9.6		
Thu Oct 09/Fri Oct 10	23 24	19 23	20 49	6 29	7 55	20 13	5 55	20 55	.....	86	3 49.4	24 33	9.7		
Fri Oct 10/Sat Oct 11	23 28	19 22	20 48	6 30	7 56	20 15	5 59	21 45	.....	77	4 54.1	27 14	9.7		
Sat Oct 11/Sun Oct 12	23 32	19 20	20 46	6 31	7 57	20 18	6 04	22 45	.....	66	5 59.2	27 59	9.7		
Sun Oct 12/Mon Oct 13	23 36	19 19	20 45	6 32	7 58	20 21	6 09	23 51	.....	55	7 02.3	26 50	9.8		
Mon Oct 13/Tue Oct 14	23 40	19 17	20 43	6 33	7 59	20 23	6 14	1 01	.....	44	8 01.4	24 05	9.8		
Tue Oct 14/Wed Oct 15	23 44	19 16	20 42	6 33	8 00	20 26	6 19	2 10	.....	34	8 55.9	20 05	9.9		
Wed Oct 15/Thu Oct 16	23 48	19 15	20 41	6 34	8 01	20 28	6 23	3 16	16 37	25	9 46.1	15 12	9.9			
Thu Oct 16/Fri Oct 17	23 52	19 13	20 40	6 35	8 02	20 31	6 28	4 19	17 04	16	10 32.8	9 46	9.9			
Fri Oct 17/Sat Oct 18	23 56	19 12	20 38	6 36	8 03	20 34	6 33	5 20	17 28	10	11 17.1	4 02	10.0			
Sat Oct 18/Sun Oct 19	24 00	19 11	20 37	6 37	8 03	20 36	6 38	6 19	17 50	5	12 00.0	- 1 45	10.0			
Sun Oct 19/Mon Oct 20	0 04	19 09	20 36	6 38	8 04	20 39	6 43	7 18	18 12	2	12 42.6	- 7 26	10.0			
Mon Oct 20/Tue Oct 21	0 08	19 08	20 35	6 39	8 05	20 42	6 48	.....	18 35	0	13 25.8	-12 48	10.1		
Tue Oct 21/Wed Oct 22	0 12	19 07	20 33	6 40	8 06	20 45	6 52	.....	19 00	1	14 10.3	-17 42	10.1		
Wed Oct 22/Thu Oct 23	0 16	19 06	20 32	6 40	8 07	20 47	6 57	.....	19 28	3	14 56.8	-21 56	10.1		
Thu Oct 23/Fri Oct 24	0 20	19 04	20 31	6 41	8 08	20 50	7 02	.....	20 00	6	15 45.7	-25 18	10.2		
Fri Oct 24/Sat Oct 25	0 24	19 03	20 30	6 42	8 09	20 53	7 07	.....	20 39	12	16 36.9	-27 38	10.2		
Sat Oct 25/Sun Oct 26	0 28	19 02	20 29	6 43	8 10	20 56	7 12	.....	21 24	18	17 30.0	-28 47	10.2		
Sun Oct 26/Mon Oct 27	0 31	19 01	20 28	6 44	8 11	20 59	7 16	.....	22 17	26	18 24.1	-28 37	10.3		
Mon Oct 27/Tue Oct 28	0 35	19 00	20 27	6 45	8 12	21 02	7 21	.....	23 16	35	19 18.3	-27 06	10.3		
Tue Oct 28/Wed Oct 29	0 39	18 58	20 26	6 46	8 13	21 05	7 26	.....	0 19	45	20 11.6	-24 17	10.3		
Wed Oct 29/Thu Oct 30	0 43	18 57	20 25	6 47	8 14	21 07	7 31	.....	1 24	55	21 03.6	-20 16	10.4		
Thu Oct 30/Fri Oct 31	0 47	18 56	20 24	6 47	8 15	21 10	7 36	.....	2 31	65	21 54.4	-15 11	10.4		
Fri Oct 31/Sat Nov 01	0 51	18 55	20 23	6 48	8 16	21 13	7 41	16 13	3 38	75	22 44.4	- 9 13	10.4			

Calendar for Okie-Tex, west longitude (h.m.s) = 6 51 48, latitude (d.m) = 36 53.9
 Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 NOVEMBER *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				RA	Dec	Twi-Twi hours
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum				
Sat Nov 01/Sun Nov 02*	0 55	18 54	20 22	5 49	7 17	21 16	7 45	16 39	3 47	84	23 34.7	- 2 36	10.5	
Sun Nov 02/Mon Nov 03	1 59	17 53	19 21	5 50	7 18	21 19	7 50	16 06	4 59	92	0 27.7	4 38	10.5	
Mon Nov 03/Tue Nov 04	2 03	17 52	19 20	5 51	7 19	21 23	7 55	16 35	6 14	97	1 22.0	11 32	10.5	
Tue Nov 04/Wed Nov 05	2 07	17 51	19 19	5 52	7 20	21 26	8 00	17 07	7 33	100	2 20.1	17 52	10.5	
Wed Nov 05/Thu Nov 06	2 11	17 50	19 18	5 53	7 21	21 29	8 05	17 45	.....	99	3 22.7	23 03	10.6
Thu Nov 06/Fri Nov 07	2 15	17 49	19 18	5 54	7 22	21 32	8 10	18 32	.....	95	4 29.2	26 35	10.6
Fri Nov 07/Sat Nov 08	2 19	17 48	19 17	5 55	7 23	21 35	8 14	19 30	.....	89	5 37.3	28 03	10.6
Sat Nov 08/Sun Nov 09	2 23	17 47	19 16	5 55	7 24	21 38	8 19	20 36	.....	80	6 44.2	27 25	10.7
Sun Nov 09/Mon Nov 10	2 27	17 47	19 15	5 56	7 25	21 41	8 24	21 48	.....	70	7 47.1	24 57	10.7
Mon Nov 10/Tue Nov 11	2 31	17 46	19 15	5 57	7 26	21 45	8 29	22 59	.....	60	8 44.7	21 03	10.7
Tue Nov 11/Wed Nov 12	2 35	17 45	19 14	5 58	7 27	21 48	8 34	0 08	.....	49	9 37.1	16 12	10.7
Wed Nov 12/Thu Nov 13	2 39	17 44	19 13	5 59	7 28	21 51	8 39	1 13	.....	39	10 25.2	10 45	10.8
Thu Nov 13/Fri Nov 14	2 43	17 43	19 13	6 00	7 30	21 55	8 43	2 14	.....	29	11 10.2	5 02	10.8
Fri Nov 14/Sat Nov 15	2 47	17 43	19 12	6 01	7 31	21 58	8 48	3 14	.....	21	11 53.4	- 0 45	10.8
Sat Nov 15/Sun Nov 16	2 50	17 42	19 12	6 02	7 32	22 01	8 53	4 12	.....	14	12 35.9	- 6 25	10.8
Sun Nov 16/Mon Nov 17	2 54	17 41	19 11	6 03	7 33	22 05	8 58	5 10	15 40	8	13 18.7	-11 48	10.9	
Mon Nov 17/Tue Nov 18	2 58	17 41	19 11	6 03	7 34	22 08	9 03	6 10	16 04	4	14 02.8	-16 43	10.9	
Tue Nov 18/Wed Nov 19	3 02	17 40	19 10	6 04	7 35	22 12	9 08	7 10	16 31	1	14 48.8	-21 01	10.9	
Wed Nov 19/Thu Nov 20	3 06	17 40	19 10	6 05	7 36	22 15	9 12	8 11	17 02	0	15 37.1	-24 30	10.9	
Thu Nov 20/Fri Nov 21	3 10	17 39	19 10	6 06	7 37	22 19	9 17	.....	17 38	1	16 27.7	-27 00	10.9
Fri Nov 21/Sat Nov 22	3 14	17 39	19 09	6 07	7 38	22 23	9 22	.....	18 22	4	17 20.3	-28 19	11.0
Sat Nov 22/Sun Nov 23	3 18	17 38	19 09	6 08	7 39	22 26	9 27	.....	19 12	8	18 13.8	-28 21	11.0
Sun Nov 23/Mon Nov 24	3 22	17 38	19 09	6 09	7 40	22 30	9 32	.....	20 09	13	19 07.3	-27 06	11.0
Mon Nov 24/Tue Nov 25	3 26	17 37	19 08	6 10	7 41	22 33	9 36	.....	21 10	21	19 59.8	-24 34	11.0
Tue Nov 25/Wed Nov 26	3 30	17 37	19 08	6 10	7 42	22 37	9 41	.....	22 14	29	20 50.7	-20 53	11.0
Wed Nov 26/Thu Nov 27	3 34	17 37	19 08	6 11	7 43	22 41	9 46	.....	23 18	39	21 40.1	-16 12	11.1
Thu Nov 27/Fri Nov 28	3 38	17 36	19 08	6 12	7 44	22 45	9 51	.....	0 23	49	22 28.3	-10 41	11.1
Fri Nov 28/Sat Nov 29	3 42	17 36	19 08	6 13	7 45	22 48	9 56	.....	1 29	59	23 16.3	- 4 32	11.1
Sat Nov 29/Sun Nov 30	3 46	17 36	19 07	6 14	7 46	22 52	10 00	.....	2 36	70	0 05.3	2 02	11.1
Sun Nov 30/Mon Dec 01	3 50	17 36	19 07	6 15	7 46	22 56	10 05	.....	3 47	80	0 56.4	8 43	11.1

***** 2025 DECEMBER *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				RA	Dec	Twi-Twi hours
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum				
Mon Dec 01/Tue Dec 02	3 54	17 35	19 07	6 15	7 47	23 00	10 10	.....	5 02	89	1 51.2	15 09	11.1
Tue Dec 02/Wed Dec 03	3 57	17 35	19 07	6 16	7 48	23 04	10 15	15 35	6 21	95	2 50.8	20 49	11.1	
Wed Dec 03/Thu Dec 04	4 01	17 35	19 07	6 17	7 49	23 08	10 19	16 17	7 40	99	3 55.4	25 09	11.2	
Thu Dec 04/Fri Dec 05	4 05	17 35	19 07	6 18	7 50	23 12	10 24	17 09	.....	100	5 04.0	27 38	11.2
Fri Dec 05/Sat Dec 06	4 09	17 35	19 07	6 18	7 51	23 16	10 29	18 13	.....	97	6 13.5	27 56	11.2
Sat Dec 06/Sun Dec 07	4 13	17 35	19 07	6 19	7 52	23 20	10 33	19 25	.....	92	7 20.7	26 07	11.2
Sun Dec 07/Mon Dec 08	4 17	17 35	19 08	6 20	7 53	23 24	10 38	20 39	.....	85	8 22.8	22 34	11.2
Mon Dec 08/Tue Dec 09	4 21	17 35	19 08	6 21	7 53	23 28	10 43	21 52	.....	76	9 19.2	17 48	11.2
Tue Dec 09/Wed Dec 10	4 25	17 35	19 08	6 21	7 54	23 32	10 47	23 01	.....	66	10 10.4	12 19	11.2
Wed Dec 10/Thu Dec 11	4 29	17 35	19 08	6 22	7 55	23 36	10 52	0 05	.....	55	10 57.6	6 28	11.2
Thu Dec 11/Fri Dec 12	4 33	17 36	19 08	6 23	7 56	23 41	10 57	1 06	.....	45	11 42.2	0 33	11.2
Fri Dec 12/Sat Dec 13	4 37	17 36	19 09	6 23	7 56	23 45	11 01	2 05	.....	36	12 25.4	- 5 13	11.2
Sat Dec 13/Sun Dec 14	4 41	17 36	19 09	6 24	7 57	23 49	11 06	3 04	.....	27	13 08.5	-10 42	11.3
Sun Dec 14/Mon Dec 15	4 45	17 36	19 09	6 25	7 58	23 53	11 11	4 03	.....	19	13 52.4	-15 43	11.3
Mon Dec 15/Tue Dec 16	4 49	17 37	19 10	6 25	7 58	23 58	11 15	5 03	.....	12	14 37.9	-20 09	11.3
Tue Dec 16/Wed Dec 17	4 53	17 37	19 10	6 26	7 59	0 02	11 20	6 03	.....	7	15 25.7	-23 47	11.3
Wed Dec 17/Thu Dec 18	4 57	17 37	19 10	6 26	8 00	0 06	11 24	7 03	15 38	3	16 15.9	-26 29	11.3	
Thu Dec 18/Fri Dec 19	5 01	17 38	19 11	6 27	8 00	0 11	11 29	7 59	16 19	1	17 08.2	-28 02	11.3	
Fri Dec 19/Sat Dec 20	5 05	17 38	19 11	6 28	8 01	0 15	11 33	.....	17 08	0	18 01.7	-28 19	11.3
Sat Dec 20/Sun Dec 21	5 08	17 39	19 12	6 28	8 01	0 19	11 38	.....	18 04	1	18 55.5	-27 18	11.3
Sun Dec 21/Mon Dec 22	5 12	17 39	19 12	6 29	8 02	0 24	11 42	.....	19 04	4	19 48.3	-24 59	11.3
Mon Dec 22/Tue Dec 23	5 16	17 40	19 13	6 29	8 02	0 28	11 46	.....	20 08	9	20 39.5	-21 31	11.3
Tue Dec 23/Wed Dec 24	5 20	17 40	19 13	6 29	8 03	0 33	11 51	.....	21 12	16	21 28.7	-17 03	11.3
Wed Dec 24/Thu Dec 25	5 24	17 41	19 14	6 30	8 03	0 37	11 55	.....	22 16	24	22 16.4	-11 46	11.3
Thu Dec 25/Fri Dec 26	5 28	17 41	19 14	6 30	8 03	0 42	11 59	.....	23 20	33	23 03.3	- 5 53	11.3
Fri Dec 26/Sat Dec 27	5 32	17 42	19 15	6 31	8 04	0 46	12 04	.....	0 25	43	23 50.3	0 23	11.3
Sat Dec 27/Sun Dec 28	5 36	17 43	19 16	6 31	8 04	0 51	12 08	.....	1 31	54	0 38.7	6 48	11.3
Sun Dec 28/Mon Dec 29	5 40	17 43	19 16	6 31	8 04	0 56	12 12	.....	2 41	65	1 30.0	13 05	11.2
Mon Dec 29/Tue Dec 30	5 44	17 44	19 17	6 32	8 05	1 00	12 17	.....	3 55	76	2 25.3	18 50	11.2
Tue Dec 30/Wed Dec 31	5 48	17 45	19 18	6 32	8 05	1 05	12 21	.....	5 12	85	3 25.6	23 35	11.2
Wed Dec 31/Thu Jan 01	5 52	17 45	19 18	6 32	8 05	1 09	12 25	.....	6 28	93	4 30.9	26 50	11.2