

**SUNRISE AND SUNSET TIME CHART**  
**BASED ON NATIONAL WEATHER SERVICE INFORMATION FOR LATITUDE 30 DEG 44 MIN. N,**  
**LONGITUDE 86 DEG 16 MIN. W**

NATIONAL WEATHER SERVICE SUNRISE/SUNSETS - for this geographic location.

Each month has the sunrise and sunset for each day of month in first two columns.

JANON = ADD 30 minutes to sunset time for each day of month.

This is the time the light will go on.

JANOFF = SUBTRACT 30 minutes from sunrise time for each day of month.

This is the time the light will turn off.

JANDAY = this is the number of hours of daylight for this day and month

It is the difference between JANOFF and JANON.

JANHRS = This is the number of burning hours the lighting will be 'on' for this day.

This is the difference between JANDAY and 24:00 hours.

This is based on the photo-controlled lighting turning on 1/2 hour after sunset and 1/2 hour before sunrise each day. Our current tariffs average this to 4000 hours annually.

**SUNRISE AND SUNSET TIME CHART**  
**BASED ON NATIONAL WEATHER SERVICE INFORMATION FOR LATITUDE 30 DEG 44 MIN. N,**  
**LONGITUDE 86 DEG 16 MIN. W**

|     |         |        | ADD30 | SUB30  |        |        |         |        | ADD   | SUB    |        |        |
|-----|---------|--------|-------|--------|--------|--------|---------|--------|-------|--------|--------|--------|
| DAY | SUNRISE | SUNSET | 0:30  | 0:30   | DAYHRS | 24:00  | SUNRISE | SUNSET | 0:30  | 0:30   | DAYHRS | 24:00  |
|     | JANRISE | JANSET | JANON | JANOFF | JANDAY | JANHRS | FEBRISE | FEBSET | FEBON | FEBOFF | FEBDAY | FEBHRS |
| 1   | 8:06    | 17:31  | 18:01 | 7:36   | 10:25  | 13:35  | 7:53    | 18:04  | 18:34 | 7:23   | 10:11  | 13:49  |
| 2   | 8:06    | 17:32  | 18:02 | 7:36   | 10:26  | 13:34  | 7:52    | 18:06  | 18:36 | 7:22   | 10:14  | 13:46  |
| 3   | 8:06    | 17:33  | 18:03 | 7:36   | 10:27  | 13:33  | 7:51    | 18:07  | 18:37 | 7:21   | 10:16  | 13:44  |
| 4   | 8:06    | 17:34  | 18:04 | 7:36   | 10:28  | 13:32  | 7:58    | 18:08  | 18:38 | 7:28   | 10:10  | 13:50  |
| 5   | 8:06    | 17:35  | 18:05 | 7:36   | 10:29  | 13:31  | 7:49    | 18:09  | 18:39 | 7:19   | 10:20  | 13:40  |
| 6   | 8:06    | 17:34  | 18:04 | 7:36   | 10:28  | 13:32  | 7:48    | 18:10  | 18:40 | 7:18   | 10:22  | 13:38  |
| 7   | 8:06    | 17:37  | 18:07 | 7:36   | 10:31  | 13:29  | 7:47    | 18:11  | 18:41 | 7:17   | 10:24  | 13:36  |
| 8   | 8:06    | 17:38  | 18:08 | 7:36   | 10:32  | 13:28  | 7:46    | 18:13  | 18:43 | 7:16   | 10:27  | 13:33  |
| 9   | 8:06    | 17:39  | 18:09 | 7:36   | 10:33  | 13:27  | 7:45    | 18:14  | 18:44 | 7:15   | 10:29  | 13:31  |
| 10  | 8:06    | 17:48  | 18:18 | 7:36   | 10:42  | 13:18  | 7:44    | 18:15  | 18:45 | 7:14   | 10:31  | 13:29  |
| 11  | 8:06    | 17:41  | 18:11 | 7:36   | 10:35  | 13:25  | 7:43    | 18:14  | 18:44 | 7:13   | 10:31  | 13:29  |
| 12  | 8:05    | 17:42  | 18:12 | 7:35   | 10:37  | 13:23  | 7:42    | 18:17  | 18:47 | 7:12   | 10:35  | 13:25  |
| 13  | 8:05    | 17:43  | 18:13 | 7:35   | 10:38  | 13:22  | 7:48    | 18:19  | 18:49 | 7:18   | 10:31  | 13:29  |
| 14  | 8:05    | 17:44  | 18:14 | 7:35   | 10:39  | 13:21  | 7:39    | 18:20  | 18:50 | 7:09   | 10:41  | 13:19  |
| 15  | 8:04    | 17:45  | 18:15 | 7:34   | 10:41  | 13:19  | 7:39    | 18:21  | 18:51 | 7:09   | 10:42  | 13:18  |
| 16  | 8:04    | 17:46  | 18:16 | 7:34   | 10:42  | 13:18  | 7:37    | 18:22  | 18:52 | 7:07   | 10:45  | 13:15  |
| 17  | 8:04    | 17:47  | 18:17 | 7:34   | 10:43  | 13:17  | 7:35    | 18:23  | 18:53 | 7:05   | 10:48  | 13:12  |
| 18  | 8:03    | 17:48  | 18:18 | 7:33   | 10:45  | 13:15  | 7:34    | 18:24  | 18:54 | 7:04   | 10:50  | 13:10  |
| 19  | 8:03    | 17:49  | 18:19 | 7:33   | 10:46  | 13:14  | 7:33    | 18:25  | 18:55 | 7:03   | 10:52  | 13:08  |
| 20  | 8:02    | 17:50  | 18:20 | 7:32   | 10:48  | 13:12  | 7:31    | 18:26  | 18:56 | 7:01   | 10:55  | 13:05  |
| 21  | 8:01    | 17:51  | 18:21 | 7:31   | 10:50  | 13:10  | 7:31    | 18:27  | 18:57 | 7:01   | 10:56  | 13:04  |
| 22  | 8:01    | 17:53  | 18:23 | 7:31   | 10:52  | 13:08  | 7:30    | 18:28  | 18:58 | 7:00   | 10:58  | 13:02  |
| 23  | 8:00    | 17:54  | 18:24 | 7:30   | 10:54  | 13:06  | 7:29    | 18:29  | 18:59 | 6:59   | 11:00  | 13:00  |
| 24  | 8:00    | 17:55  | 18:25 | 7:30   | 10:55  | 13:05  | 7:27    | 18:30  | 19:00 | 6:57   | 11:03  | 12:57  |
| 25  | 7:59    | 17:56  | 18:26 | 7:29   | 10:57  | 13:03  | 7:26    | 18:31  | 19:01 | 6:56   | 11:05  | 12:55  |
| 26  | 7:58    | 17:57  | 18:27 | 7:28   | 10:59  | 13:01  | 7:24    | 18:32  | 19:02 | 6:54   | 11:08  | 12:52  |
| 27  | 7:57    | 17:58  | 18:28 | 7:27   | 11:01  | 12:59  | 7:23    | 18:33  | 19:03 | 6:53   | 11:10  | 12:50  |
| 28  | 7:57    | 18:00  | 18:30 | 7:27   | 11:03  | 12:57  | 7:22    | 18:34  | 19:04 | 6:52   | 11:12  | 12:48  |
| 29  | 7:56    | 18:01  | 18:31 | 7:26   | 11:05  | 12:55  | 7:23    | 18:34  | 19:04 | 6:53   | 11:11  | 12:49  |
| 30  | 7:55    | 18:02  | 18:32 | 7:25   | 11:07  | 12:53  |         |        |       |        |        |        |
| 31  | 7:54    | 18:03  | 18:33 | 7:24   | 11:09  | 12:51  |         |        |       |        |        |        |
|     |         |        |       |        | 332:47 | 411:13 |         |        |       |        | 310:17 | 385:43 |

**SUNRISE AND SUNSET TIME CHART  
 BASED ON NATIONAL WEATHER SERVICE INFORMATION FOR LATITUDE 30 DEG 44 MIN. N,  
 LONGITUDE 86 DEG 16 MIN. W**

| DAY | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS |
|-----|---------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---------|
|     | MARRISE | MARSET | MARON  | MAROFF | MARDAY | MARHRS  | APPRISE | APRSET | APRON  | APROFF | APRDAY | APRHRS  |
| 1   | 7:19    | 18:37  | 19:07  | 6:49   | 12:18  | 11:42   | 6:30    | 19:08  | 19:38  | 6:00   | 12:38  | 11:22   |
| 2   | 7:17    | 18:38  | 19:08  | 6:47   | 12:21  | 11:39   | 6:28    | 19:09  | 19:39  | 5:58   | 12:41  | 11:19   |
| 3   | 7:16    | 18:39  | 19:09  | 6:46   | 12:23  | 11:37   | 6:27    | 19:10  | 19:40  | 5:57   | 12:43  | 11:17   |
| 4   | 7:14    | 18:40  | 19:10  | 6:44   | 12:26  | 11:34   | 6:25    | 19:11  | 19:41  | 5:55   | 12:46  | 11:14   |
| 5   | 7:13    | 18:41  | 19:11  | 6:43   | 12:28  | 11:32   | 6:24    | 19:12  | 19:42  | 5:54   | 12:48  | 11:12   |
| 6   | 7:11    | 18:42  | 19:12  | 6:41   | 12:31  | 11:29   | 6:22    | 19:13  | 19:43  | 5:52   | 12:51  | 11:09   |
| 7   | 7:10    | 18:43  | 19:13  | 6:40   | 12:33  | 11:27   | 6:20    | 19:14  | 19:44  | 5:50   | 12:54  | 11:06   |
| 8   | 7:09    | 18:44  | 19:14  | 6:39   | 12:35  | 11:25   | 6:19    | 19:15  | 19:45  | 5:49   | 12:56  | 11:04   |
| 9   | 7:07    | 18:45  | 19:15  | 6:37   | 12:38  | 11:22   | 6:17    | 19:16  | 19:46  | 5:47   | 12:59  | 11:01   |
| 10  | 7:05    | 18:46  | 19:16  | 6:35   | 12:41  | 11:19   | 6:16    | 19:17  | 19:47  | 5:46   | 13:01  | 10:59   |
| 11  | 7:03    | 18:47  | 19:17  | 6:33   | 12:44  | 11:16   | 6:14    | 19:18  | 19:48  | 5:44   | 13:04  | 10:56   |
| 12  | 7:02    | 18:48  | 19:18  | 6:32   | 12:46  | 11:14   | 6:13    | 19:19  | 19:49  | 5:43   | 13:06  | 10:54   |
| 13  | 7:00    | 18:49  | 19:19  | 6:30   | 12:49  | 11:11   | 6:11    | 19:20  | 19:50  | 5:41   | 13:09  | 10:51   |
| 14  | 6:59    | 18:50  | 19:20  | 6:29   | 12:51  | 11:09   | 6:12    | 19:21  | 19:51  | 5:42   | 13:09  | 10:51   |
| 15  | 6:57    | 18:52  | 19:22  | 6:27   | 12:55  | 11:05   | 6:08    | 19:22  | 19:52  | 5:38   | 13:14  | 10:46   |
| 16  | 6:36    | 18:53  | 19:23  | 6:06   | 13:17  | 10:43   | 6:07    | 19:23  | 19:53  | 5:37   | 13:16  | 10:44   |
| 17  | 6:54    | 18:54  | 19:24  | 6:24   | 13:00  | 11:00   | 6:05    | 19:24  | 19:54  | 5:35   | 13:19  | 10:41   |
| 18  | 6:52    | 18:55  | 19:25  | 6:22   | 13:03  | 10:57   | 6:04    | 19:25  | 19:55  | 5:34   | 13:21  | 10:39   |
| 19  | 6:51    | 18:56  | 19:26  | 6:21   | 13:05  | 10:55   | 6:02    | 19:26  | 19:56  | 5:32   | 13:24  | 10:36   |
| 20  | 6:49    | 18:57  | 19:27  | 6:19   | 13:08  | 10:52   | 6:01    | 19:27  | 19:57  | 5:31   | 13:26  | 10:34   |
| 21  | 6:48    | 18:58  | 19:28  | 6:18   | 13:10  | 10:50   | 6:00    | 19:28  | 19:58  | 5:30   | 13:28  | 10:32   |
| 22  | 6:46    | 18:59  | 19:29  | 6:16   | 13:13  | 10:47   | 5:58    | 19:29  | 19:59  | 5:28   | 13:31  | 10:29   |
| 23  | 6:44    | 19:00  | 19:30  | 6:14   | 13:16  | 10:44   | 5:57    | 19:38  | 20:08  | 5:27   | 13:41  | 10:19   |
| 24  | 6:43    | 19:01  | 19:31  | 6:13   | 13:18  | 10:42   | 5:55    | 19:31  | 20:01  | 5:25   | 13:36  | 10:24   |
| 25  | 6:41    | 19:01  | 19:31  | 6:11   | 13:20  | 10:40   | 5:54    | 19:32  | 20:02  | 5:24   | 13:38  | 10:22   |
| 26  | 6:39    | 19:02  | 19:32  | 6:09   | 13:23  | 10:37   | 5:53    | 19:33  | 20:03  | 5:23   | 13:40  | 10:20   |
| 27  | 6:38    | 19:03  | 19:33  | 6:08   | 13:25  | 10:35   | 5:51    | 19:34  | 20:04  | 5:21   | 13:43  | 10:17   |
| 28  | 6:36    | 19:04  | 19:34  | 6:06   | 13:28  | 10:32   | 5:50    | 19:35  | 20:05  | 5:20   | 13:45  | 10:15   |
| 29  | 6:35    | 19:05  | 19:35  | 6:05   | 13:30  | 10:30   | 5:49    | 19:36  | 20:06  | 5:19   | 13:47  | 10:13   |
| 30  | 6:33    | 19:06  | 19:36  | 6:03   | 13:33  | 10:27   | 5:48    | 19:37  | 20:07  | 5:18   | 13:49  | 10:11   |
| 31  | 6:31    | 19:07  | 19:37  | 6:01   | 13:36  | 10:24   |         |        |        |        |        |         |
|     |         |        |        |        |        |         |         |        |        |        |        |         |
|     |         |        |        |        | 401:44 | 342:16  |         |        |        |        | 397:23 | 322:37  |

**SUNRISE AND SUNSET TIME CHART  
 BASED ON NATIONAL WEATHER SERVICE INFORMATION FOR LATITUDE 30 DEG 44 MIN. N,  
 LONGITUDE 86 DEG 16 MIN. W**

| DAY | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS |
|-----|---------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---------|
|     | MAYRISE | MAYSET | MAYON  | MAYOFF | MAYDAY | MAYHRS  | JUNRISE | JUNSET | JUNON  | JUNOFF | JUNDAY | JUNHRS  |
| 1   | 5:46    | 19:38  | 20:08  | 5:16   | 14:52  | 9:08    | 5:19    | 20:06  | 20:36  | 4:49   | 14:47  | 9:13    |
| 2   | 5:45    | 19:39  | 20:09  | 5:15   | 14:54  | 9:06    | 5:19    | 20:07  | 20:37  | 4:49   | 14:48  | 9:12    |
| 3   | 5:44    | 19:49  | 20:19  | 5:14   | 15:05  | 8:55    | 5:19    | 20:07  | 20:37  | 4:49   | 14:48  | 9:12    |
| 4   | 5:43    | 19:41  | 20:11  | 5:13   | 14:58  | 9:02    | 5:18    | 20:08  | 20:38  | 4:48   | 14:50  | 9:10    |
| 5   | 5:41    | 19:42  | 20:12  | 5:11   | 15:01  | 8:59    | 5:18    | 20:09  | 20:39  | 4:48   | 14:51  | 9:09    |
| 6   | 5:48    | 19:43  | 20:13  | 5:18   | 14:55  | 9:05    | 5:18    | 20:09  | 20:39  | 4:48   | 14:51  | 9:09    |
| 7   | 5:39    | 19:44  | 20:14  | 5:09   | 15:05  | 8:55    | 5:16    | 20:10  | 20:40  | 4:46   | 14:54  | 9:06    |
| 8   | 5:38    | 19:45  | 20:15  | 5:08   | 15:07  | 8:53    | 5:17    | 20:11  | 20:41  | 4:47   | 14:54  | 9:06    |
| 9   | 5:37    | 19:46  | 20:16  | 5:07   | 15:09  | 8:51    | 5:17    | 20:11  | 20:41  | 4:47   | 14:54  | 9:06    |
| 10  | 5:36    | 19:47  | 20:17  | 5:06   | 15:11  | 8:49    | 5:17    | 20:12  | 20:42  | 4:47   | 14:55  | 9:05    |
| 11  | 5:35    | 19:48  | 20:18  | 5:05   | 15:13  | 8:47    | 5:17    | 20:12  | 20:42  | 4:47   | 14:55  | 9:05    |
| 12  | 5:34    | 19:49  | 20:19  | 5:04   | 15:15  | 8:45    | 5:17    | 20:13  | 20:43  | 4:47   | 14:56  | 9:04    |
| 13  | 5:33    | 19:50  | 20:20  | 5:03   | 15:17  | 8:43    | 5:17    | 20:13  | 20:43  | 4:47   | 14:56  | 9:04    |
| 14  | 5:32    | 19:51  | 20:21  | 5:02   | 15:19  | 8:41    | 5:17    | 20:14  | 20:44  | 4:47   | 14:57  | 9:03    |
| 15  | 5:31    | 19:52  | 20:22  | 5:01   | 15:21  | 8:39    | 5:17    | 20:14  | 20:44  | 4:47   | 14:57  | 9:03    |
| 16  | 5:30    | 19:52  | 20:22  | 5:00   | 15:22  | 8:38    | 5:17    | 20:14  | 20:44  | 4:47   | 14:57  | 9:03    |
| 17  | 5:29    | 19:53  | 20:23  | 4:59   | 15:24  | 8:36    | 5:17    | 20:15  | 20:45  | 4:47   | 14:58  | 9:02    |
| 18  | 5:28    | 19:54  | 20:24  | 4:58   | 15:26  | 8:34    | 5:17    | 20:15  | 20:45  | 4:47   | 14:58  | 9:02    |
| 19  | 5:28    | 19:55  | 20:25  | 4:58   | 15:27  | 8:33    | 5:17    | 20:16  | 20:46  | 4:47   | 14:59  | 9:01    |
| 20  | 5:27    | 19:56  | 20:26  | 4:57   | 15:29  | 8:31    | 5:17    | 20:16  | 20:46  | 4:47   | 14:59  | 9:01    |
| 21  | 15:26   | 19:57  | 20:27  | 14:56  | 5:31   | 18:29   | 5:17    | 20:16  | 20:46  | 4:47   | 14:59  | 9:01    |
| 22  | 5:25    | 19:58  | 20:28  | 4:55   | 15:33  | 8:27    | 5:18    | 20:16  | 20:46  | 4:48   | 14:58  | 9:02    |
| 23  | 5:25    | 19:59  | 20:29  | 4:55   | 15:34  | 8:26    | 5:18    | 20:16  | 20:46  | 4:48   | 14:58  | 9:02    |
| 24  | 5:24    | 20:00  | 20:30  | 4:54   | 15:36  | 8:24    | 5:18    | 20:17  | 20:47  | 4:48   | 14:59  | 9:01    |
| 25  | 5:23    | 20:00  | 20:30  | 4:53   | 15:37  | 8:23    | 5:18    | 20:17  | 20:47  | 4:48   | 14:59  | 9:01    |
| 26  | 5:23    | 20:01  | 20:31  | 4:53   | 15:38  | 8:22    | 5:19    | 20:17  | 20:47  | 4:49   | 14:58  | 9:02    |
| 27  | 5:22    | 20:02  | 20:32  | 4:52   | 15:40  | 8:20    | 5:19    | 20:17  | 20:47  | 4:49   | 14:58  | 9:02    |
| 28  | 5:21    | 20:03  | 20:33  | 4:51   | 15:42  | 8:18    | 5:19    | 20:17  | 20:47  | 4:49   | 14:58  | 9:02    |
| 29  | 5:21    | 20:04  | 20:34  | 4:51   | 15:43  | 8:17    | 5:20    | 20:17  | 20:47  | 4:50   | 14:57  | 9:03    |
| 30  | 5:20    | 20:05  | 20:35  | 4:50   | 15:45  | 8:15    | 5:20    | 20:17  | 20:47  | 4:50   | 14:57  | 9:03    |
| 31  | 5:20    | 20:05  | 20:35  | 4:50   | 15:45  | 8:15    |         |        |        |        |        |         |
|     |         |        |        |        | 465:54 | 278:06  |         |        |        |        | 447:45 | 272:15  |

**SUNRISE AND SUNSET TIME CHART**  
**BASED ON NATIONAL WEATHER SERVICE INFORMATION FOR LATITUDE 30 DEG 44 MIN. N,**  
**LONGITUDE 86 DEG 16 MIN. W**

| DAY | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS |
|-----|---------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---------|
|     | JULRISE | JULSET | JULON  | JULOFF | JULDAY | JULHRS  | AUGRISE | AUGSET | AUGON  | AUGOFF | AUGDAY | AUGHRS  |
| 1   | 5:21    | 20:17  | 20:47  | 4:51   | 15:56  | 8:04    | 5:44    | 19:59  | 20:29  | 5:14   | 14:15  | 9:45    |
| 2   | 5:21    | 20:17  | 20:47  | 4:51   | 15:56  | 8:04    | 5:45    | 19:58  | 20:28  | 5:15   | 14:13  | 9:47    |
| 3   | 5:22    | 20:17  | 20:47  | 4:52   | 15:55  | 8:05    | 5:46    | 19:57  | 20:27  | 5:16   | 14:11  | 9:49    |
| 4   | 5:22    | 20:17  | 20:47  | 4:52   | 15:55  | 8:05    | 5:46    | 19:56  | 20:26  | 5:16   | 14:10  | 9:50    |
| 5   | 5:23    | 20:16  | 20:46  | 4:53   | 15:53  | 8:07    | 5:47    | 19:55  | 20:25  | 5:17   | 14:08  | 9:52    |
| 6   | 5:23    | 20:16  | 20:46  | 4:53   | 15:53  | 8:07    | 5:48    | 19:54  | 20:24  | 5:18   | 14:06  | 9:54    |
| 7   | 5:23    | 20:16  | 20:46  | 4:53   | 15:53  | 8:07    | 5:49    | 19:53  | 20:23  | 5:19   | 14:04  | 9:56    |
| 8   | 5:24    | 20:16  | 20:46  | 4:54   | 15:52  | 8:08    | 5:50    | 19:52  | 20:22  | 5:20   | 14:02  | 9:58    |
| 9   | 5:25    | 20:16  | 20:46  | 4:55   | 15:51  | 8:09    | 5:51    | 19:51  | 20:21  | 5:21   | 14:00  | 10:00   |
| 10  | 5:25    | 20:15  | 20:45  | 4:55   | 15:50  | 8:10    | 5:52    | 19:49  | 20:19  | 5:22   | 13:57  | 10:03   |
| 11  | 5:26    | 20:15  | 20:45  | 4:56   | 15:49  | 8:11    | 5:53    | 19:48  | 20:18  | 5:23   | 13:55  | 10:05   |
| 12  | 5:27    | 20:14  | 20:44  | 4:57   | 15:47  | 8:13    | 5:54    | 19:47  | 20:17  | 5:24   | 13:53  | 10:07   |
| 13  | 5:27    | 20:14  | 20:44  | 4:57   | 15:47  | 8:13    | 5:55    | 19:46  | 20:16  | 5:25   | 13:51  | 10:09   |
| 14  | 5:26    | 20:14  | 20:44  | 4:56   | 15:48  | 8:12    | 5:56    | 19:44  | 20:14  | 5:26   | 13:48  | 10:12   |
| 15  | 5:29    | 20:13  | 20:43  | 4:59   | 15:44  | 8:16    | 5:57    | 19:43  | 20:13  | 5:27   | 13:46  | 10:14   |
| 16  | 5:30    | 20:12  | 20:42  | 5:00   | 15:42  | 8:18    | 5:58    | 19:42  | 20:12  | 5:28   | 13:44  | 10:16   |
| 17  | 5:31    | 20:12  | 20:42  | 5:01   | 15:41  | 8:19    | 5:59    | 19:40  | 20:10  | 5:29   | 13:41  | 10:19   |
| 18  | 5:32    | 20:11  | 20:41  | 5:02   | 15:39  | 8:21    | 6:00    | 19:38  | 20:08  | 5:30   | 13:38  | 10:22   |
| 19  | 5:32    | 20:11  | 20:41  | 5:02   | 15:39  | 8:21    | 6:00    | 19:37  | 20:07  | 5:30   | 13:37  | 10:23   |
| 20  | 5:33    | 20:10  | 20:40  | 5:03   | 15:37  | 8:23    | 6:01    | 19:36  | 20:06  | 5:31   | 13:35  | 10:25   |
| 21  | 5:34    | 20:09  | 20:39  | 5:04   | 15:35  | 8:25    | 6:02    | 19:35  | 20:05  | 5:32   | 13:33  | 10:27   |
| 22  | 5:35    | 20:08  | 20:38  | 5:05   | 15:33  | 8:27    | 6:03    | 19:33  | 20:03  | 5:33   | 13:30  | 10:30   |
| 23  | 5:36    | 20:07  | 20:37  | 5:06   | 15:31  | 8:29    | 6:04    | 19:32  | 20:02  | 5:34   | 13:28  | 10:32   |
| 24  | 5:37    | 20:07  | 20:37  | 5:07   | 15:30  | 8:30    | 6:05    | 19:30  | 20:00  | 5:35   | 13:25  | 10:35   |
| 25  | 5:37    | 20:06  | 20:36  | 5:07   | 15:29  | 8:31    | 6:06    | 19:29  | 19:59  | 5:36   | 13:23  | 10:37   |
| 26  | 5:38    | 20:05  | 20:35  | 5:08   | 15:27  | 8:33    | 6:07    | 19:27  | 19:57  | 5:37   | 13:20  | 10:40   |
| 27  | 5:39    | 20:04  | 20:34  | 5:09   | 15:25  | 8:35    | 6:08    | 19:26  | 19:56  | 5:38   | 13:18  | 10:42   |
| 28  | 5:40    | 20:03  | 20:33  | 5:10   | 15:23  | 8:37    | 6:09    | 19:24  | 19:54  | 5:39   | 13:15  | 10:45   |
| 29  | 5:41    | 20:02  | 20:32  | 5:11   | 15:21  | 8:39    | 6:10    | 19:23  | 19:53  | 5:40   | 13:13  | 10:47   |
| 30  | 5:42    | 20:01  | 20:31  | 5:12   | 15:19  | 8:41    | 6:11    | 19:21  | 19:51  | 5:41   | 13:10  | 10:50   |
| 31  | 5:43    | 20:00  | 20:30  | 5:13   | 15:17  | 8:43    | 6:12    | 19:20  | 19:50  | 5:42   | 13:08  | 10:52   |
|     |         |        |        |        | 485:57 | 258:03  |         |        |        |        | 425:17 | 318:43  |

**SUNRISE AND SUNSET TIME CHART**  
**BASED ON NATIONAL WEATHER SERVICE INFORMATION FOR LATITUDE 30 DEG 44 MIN. N,**  
**LONGITUDE 86 DEG 16 MIN. W**

| DAY | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS |
|-----|---------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---------|
|     | SEPRISE | SEPSET | SEPON  | SEPOFF | SEPDAY | SEPHRS  | OCTRISE | OCTSET | OCTON  | OCTOFF | OCTDAY | OCTHRS  |
| 1   | 6:13    | 19:18  | 19:48  | 5:43   | 14:05  | 9:55    | 6:41    | 18:28  | 18:58  | 6:11   | 11:47  | 12:13   |
| 2   | 6:14    | 19:17  | 19:47  | 5:44   | 14:03  | 9:57    | 6:42    | 18:27  | 18:57  | 6:12   | 11:45  | 12:15   |
| 3   | 6:15    | 19:15  | 19:45  | 5:45   | 14:00  | 10:00   | 6:43    | 18:25  | 18:55  | 6:13   | 11:42  | 12:18   |
| 4   | 6:15    | 19:14  | 19:44  | 5:45   | 13:59  | 10:01   | 6:44    | 18:23  | 18:53  | 6:14   | 11:39  | 12:21   |
| 5   | 6:16    | 19:12  | 19:42  | 5:46   | 13:56  | 10:04   | 6:45    | 18:22  | 18:52  | 6:15   | 11:37  | 12:23   |
| 6   | 6:17    | 19:10  | 19:40  | 5:47   | 13:53  | 10:07   | 6:46    | 18:20  | 18:50  | 6:16   | 11:34  | 12:26   |
| 7   | 6:18    | 19:09  | 19:39  | 5:48   | 13:51  | 10:09   | 6:47    | 18:19  | 18:49  | 6:17   | 11:32  | 12:28   |
| 8   | 6:19    | 19:07  | 19:37  | 5:49   | 13:48  | 10:12   | 6:48    | 18:17  | 18:47  | 6:18   | 11:29  | 12:31   |
| 9   | 6:20    | 19:06  | 19:36  | 5:50   | 13:46  | 10:14   | 6:49    | 18:15  | 18:45  | 6:19   | 11:26  | 12:34   |
| 10  | 6:21    | 19:04  | 19:34  | 5:51   | 13:43  | 10:17   | 6:50    | 18:14  | 18:44  | 6:20   | 11:24  | 12:36   |
| 11  | 6:22    | 19:02  | 19:32  | 5:52   | 13:40  | 10:20   | 6:51    | 18:12  | 18:42  | 6:21   | 11:21  | 12:39   |
| 12  | 6:23    | 18:59  | 19:29  | 5:53   | 13:36  | 10:24   | 6:52    | 18:11  | 18:41  | 6:22   | 11:19  | 12:41   |
| 13  | 6:24    | 18:58  | 19:28  | 5:54   | 13:34  | 10:26   | 6:53    | 18:09  | 18:39  | 6:23   | 11:16  | 12:44   |
| 14  | 6:25    | 18:56  | 19:26  | 5:55   | 13:31  | 10:29   | 6:54    | 18:08  | 18:38  | 6:24   | 11:14  | 12:46   |
| 15  | 6:26    | 18:54  | 19:24  | 5:56   | 13:28  | 10:32   | 6:55    | 18:06  | 18:36  | 6:25   | 11:11  | 12:49   |
| 16  | 6:27    | 18:53  | 19:23  | 5:57   | 13:26  | 10:34   | 6:56    | 18:05  | 18:35  | 6:26   | 11:09  | 12:51   |
| 17  | 6:28    | 18:51  | 19:21  | 5:58   | 13:23  | 10:37   | 6:57    | 18:04  | 18:34  | 6:27   | 11:07  | 12:53   |
| 18  | 6:28    | 18:49  | 19:19  | 5:58   | 13:21  | 10:39   | 6:58    | 18:02  | 18:32  | 6:28   | 11:04  | 12:56   |
| 19  | 6:29    | 18:48  | 19:18  | 5:59   | 13:19  | 10:41   | 6:59    | 18:01  | 18:31  | 6:29   | 11:02  | 12:58   |
| 20  | 6:30    | 18:46  | 19:16  | 6:00   | 13:16  | 10:44   | 7:00    | 17:59  | 18:29  | 6:30   | 10:59  | 13:01   |
| 21  | 6:31    | 18:44  | 19:14  | 6:01   | 13:13  | 10:47   | 7:01    | 17:58  | 18:28  | 6:31   | 10:57  | 13:03   |
| 22  | 6:32    | 18:43  | 19:13  | 6:02   | 13:11  | 10:49   | 7:02    | 17:56  | 18:26  | 6:32   | 10:54  | 13:06   |
| 23  | 6:33    | 18:41  | 19:11  | 6:03   | 13:08  | 10:52   | 7:03    | 17:55  | 18:25  | 6:33   | 10:52  | 13:08   |
| 24  | 6:34    | 18:39  | 19:09  | 6:04   | 13:05  | 10:55   | 7:04    | 17:54  | 18:24  | 6:34   | 10:50  | 13:10   |
| 25  | 6:35    | 18:38  | 19:08  | 6:05   | 13:03  | 10:57   | 7:06    | 17:52  | 18:22  | 6:36   | 10:46  | 13:14   |
| 26  | 6:36    | 18:36  | 19:06  | 6:06   | 13:00  | 11:00   | 7:07    | 17:51  | 18:21  | 6:37   | 10:44  | 13:16   |
| 27  | 6:37    | 18:35  | 19:05  | 6:07   | 12:58  | 11:02   | 7:08    | 17:50  | 18:20  | 6:38   | 10:42  | 13:18   |
| 28  | 6:38    | 18:33  | 19:03  | 6:08   | 12:55  | 11:05   | 7:09    | 17:49  | 18:19  | 6:39   | 10:40  | 13:20   |
| 29  | 6:39    | 18:31  | 19:01  | 6:09   | 12:52  | 11:08   | 7:10    | 17:47  | 18:17  | 6:40   | 10:37  | 13:23   |
| 30  | 6:40    | 18:30  | 19:00  | 6:10   | 12:50  | 11:10   | 7:11    | 17:46  | 18:16  | 6:41   | 10:35  | 13:25   |
| 31  |         |        |        |        |        |         | 7:12    | 17:45  | 18:15  | 6:42   | 10:33  | 13:27   |
|     |         |        |        |        | 403:53 | 316:07  |         |        |        |        | 345:47 | 398:13  |

**SUNRISE AND SUNSET TIME CHART**  
**BASED ON NATIONAL WEATHER SERVICE INFORMATION FOR LATITUDE 30 DEG 44 MIN. N,**  
**LONGITUDE 86 DEG 16 MIN. W**

| DAY | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS | SUNRISE | SUNSET | ADD 30 | SUB 30 | HOURS  | BURNHRS |
|-----|---------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---------|
|     | NOVRISE | NOVSET | NOVON  | NOVOFF | NOVDAY | NOVHRS  | DECRISE | DECSET | DECON  | DECOFF | DECDAY | DECHRS  |
| 1   | 7:13    | 17:44  | 18:14  | 6:43   | 11:31  | 12:29   | 7:47    | 17:21  | 17:51  | 7:17   | 9:34   | 14:26   |
| 2   | 7:14    | 17:43  | 18:13  | 6:44   | 11:29  | 12:31   | 7:48    | 17:21  | 17:51  | 7:18   | 9:33   | 14:27   |
| 3   | 7:16    | 17:41  | 18:11  | 6:46   | 11:25  | 12:35   | 7:49    | 17:21  | 17:51  | 7:19   | 9:32   | 14:28   |
| 4   | 7:17    | 17:40  | 18:10  | 6:47   | 11:23  | 12:37   | 7:50    | 17:21  | 17:51  | 7:20   | 9:31   | 14:29   |
| 5   | 7:18    | 17:39  | 18:09  | 6:48   | 11:21  | 12:39   | 7:50    | 17:21  | 17:51  | 7:20   | 9:31   | 14:29   |
| 6   | 7:19    | 17:38  | 18:08  | 6:49   | 11:19  | 12:41   | 7:51    | 17:21  | 17:51  | 7:21   | 9:30   | 14:30   |
| 7   | 7:20    | 17:37  | 18:07  | 6:50   | 11:17  | 12:43   | 7:52    | 17:21  | 17:51  | 7:22   | 9:29   | 14:31   |
| 8   | 7:21    | 17:36  | 18:06  | 6:51   | 11:15  | 12:45   | 7:53    | 17:21  | 17:51  | 7:23   | 9:28   | 14:32   |
| 9   | 7:22    | 17:35  | 18:05  | 6:52   | 11:13  | 12:47   | 7:54    | 17:21  | 17:51  | 7:24   | 9:27   | 14:33   |
| 10  | 7:24    | 17:34  | 18:04  | 6:54   | 11:10  | 12:50   | 7:55    | 17:21  | 17:51  | 7:25   | 9:26   | 14:34   |
| 11  | 7:25    | 17:33  | 18:03  | 6:55   | 11:08  | 12:52   | 7:56    | 17:21  | 17:51  | 7:26   | 9:25   | 14:35   |
| 12  | 7:26    | 17:32  | 18:02  | 6:56   | 11:06  | 12:54   | 7:56    | 17:21  | 17:51  | 7:26   | 9:25   | 14:35   |
| 13  | 7:27    | 17:32  | 18:02  | 6:57   | 11:05  | 12:55   | 7:57    | 17:21  | 17:51  | 7:27   | 9:24   | 14:36   |
| 14  | 7:28    | 17:31  | 18:01  | 6:58   | 11:03  | 12:57   | 7:58    | 17:21  | 17:51  | 7:28   | 9:23   | 14:37   |
| 15  | 7:29    | 17:30  | 18:00  | 6:59   | 11:01  | 12:59   | 7:59    | 17:21  | 17:51  | 7:29   | 9:22   | 14:38   |
| 16  | 7:30    | 17:29  | 17:59  | 7:00   | 10:59  | 13:01   | 7:59    | 17:21  | 17:51  | 7:29   | 9:22   | 14:38   |
| 17  | 7:32    | 17:28  | 17:58  | 7:02   | 10:56  | 13:04   | 8:00    | 17:22  | 17:52  | 7:30   | 9:22   | 14:38   |
| 18  | 7:33    | 17:28  | 17:58  | 7:03   | 10:55  | 13:05   | 8:01    | 17:23  | 17:53  | 7:31   | 9:22   | 14:38   |
| 19  | 7:34    | 17:27  | 17:57  | 7:04   | 10:53  | 13:07   | 8:01    | 17:23  | 17:53  | 7:31   | 9:22   | 14:38   |
| 20  | 7:35    | 17:26  | 17:56  | 7:05   | 10:51  | 13:09   | 8:02    | 17:23  | 17:53  | 7:32   | 9:21   | 14:39   |
| 21  | 7:36    | 17:26  | 17:56  | 7:06   | 10:50  | 13:10   | 8:02    | 17:24  | 17:54  | 7:32   | 9:22   | 14:38   |
| 22  | 7:37    | 17:25  | 17:55  | 7:07   | 10:48  | 13:12   | 8:03    | 17:24  | 17:54  | 7:33   | 9:21   | 14:39   |
| 23  | 7:38    | 17:25  | 17:55  | 7:08   | 10:47  | 13:13   | 8:03    | 17:25  | 17:55  | 7:33   | 9:22   | 14:38   |
| 24  | 7:39    | 17:24  | 17:54  | 7:09   | 10:45  | 13:15   | 8:04    | 17:26  | 17:56  | 7:34   | 9:22   | 14:38   |
| 25  | 7:40    | 17:24  | 17:54  | 7:10   | 10:44  | 13:16   | 8:04    | 17:26  | 17:56  | 7:34   | 9:22   | 14:38   |
| 26  | 7:41    | 17:23  | 17:53  | 7:11   | 10:42  | 13:18   | 8:04    | 17:27  | 17:57  | 7:34   | 9:23   | 14:37   |
| 27  | 7:42    | 17:23  | 17:53  | 7:12   | 10:41  | 13:19   | 8:05    | 17:27  | 17:57  | 7:35   | 9:22   | 14:38   |
| 28  | 7:44    | 17:22  | 17:52  | 7:14   | 10:38  | 13:22   | 8:05    | 17:28  | 17:58  | 7:35   | 9:23   | 14:37   |
| 29  | 7:45    | 17:22  | 17:52  | 7:15   | 10:37  | 13:23   | 8:05    | 17:29  | 17:59  | 7:35   | 9:24   | 14:36   |
| 30  | 7:46    | 17:22  | 17:52  | 7:16   | 10:36  | 13:24   | 8:06    | 17:30  | 18:00  | 7:36   | 9:24   | 14:36   |
| 31  |         |        |        |        |        |         | 8:06    | 17:30  | 18:00  | 7:36   | 9:24   | 14:36   |
|     |         |        |        |        | 330:28 | 389:32  |         |        |        |        | 291:58 | 452:02  |