

2022 Ohio Milky Way Calendar @sherrill_photo

TIMES ARE APPROXIMATE AND VARY WITH ELEVATION, HORIZON, AND EXACT LOCATION

NEW MOON
DARK
MOSTLY DARK
PARTLY DARK
BARELY DARK

MILKY WAY CORE RISE AND SET TIMES ARE BASED ON THE STAR SHAULA CROSSING THE HORIZON

(PARTIAL MILKY WAY CORE PHOTOS ARE POSSIBLE BEFORE SHAULA RISES AND AFTER IT SETS)

ASTRO DARK IS WHEN THE SUN IS 18 DEGREES OR MORE BELOW THE HORIZON AND THE SKY IS AS DARK AS IT GETS

FEBRUARY/MARCH

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
2/26/2022	2/26/2022 4:15AM	2/26/2022 4:32AM	0:16	4:15AM	11:05AM	7:47PM	5:37AM	4:32AM	1:36PM
2/27/2022	2/27/2022 4:11AM	2/27/2022 5:29AM	1:17	4:11AM	11:01AM	7:48PM	5:36AM	5:29AM	2:47PM
2/28/2022	2/28/2022 4:07AM	2/28/2022 5:34AM	1:27	4:07AM	10:57AM	7:49PM	5:34AM	6:16AM	4:01PM
3/1/2022	3/1/2022 4:03AM	3/1/2022 5:33AM	1:30	4:03AM	10:53AM	7:51PM	5:33AM	6:53AM	5:16PM
3/2/2022	3/2/2022 3:59AM	3/2/2022 5:32AM	1:33	3:59AM	10:49AM	7:52PM	5:32AM	7:25AM	6:28PM
3/3/2022	3/3/2022 3:54AM	3/3/2022 5:30AM	1:35	3:54AM	10:44AM	7:53PM	5:30AM	7:52AM	7:37PM
3/4/2022	3/4/2022 3:50AM	3/4/2022 5:29AM	1:38	3:50AM	10:40AM	7:54PM	5:29AM	8:17AM	8:43PM
3/5/2022	3/5/2022 3:46AM	3/5/2022 5:27AM	1:40	3:46AM	10:36AM	7:55PM	5:27AM	8:40AM	9:48PM
3/6/2022	3/6/2022 3:42AM	3/6/2022 5:26AM	1:43	3:42AM	10:32AM	7:56PM	5:26AM	9:05AM	10:52PM
3/7/2022	3/7/2022 3:38AM	3/7/2022 5:24AM	1:45	3:38AM	10:28AM	7:57PM	5:24AM	9:30AM	11:55PM
3/8/2022	3/8/2022 3:34AM	3/8/2022 5:23AM	1:48	3:34AM	10:24AM	7:58PM	5:23AM	9:59AM	
3/9/2022	3/9/2022 3:30AM	3/9/2022 5:21AM	1:51	3:30AM	10:20AM	7:59PM	5:21AM	10:32AM	12:57AM
3/10/2022	3/10/2022 3:26AM	3/10/2022 5:20AM	1:53	3:26AM	10:16AM	8:00PM	5:20AM	11:11AM	1:58AM
3/11/2022	3/11/2022 3:22AM	3/11/2022 5:19AM	1:56	3:22AM	10:12AM	8:01PM	5:19AM	11:56AM	2:54AM
3/12/2022	3/12/2022 3:46AM	3/12/2022 5:17AM	1:31	3:18AM	10:08AM	8:02PM	5:17AM	12:49PM	3:46AM
3/13/2022	3/13/2022 5:32AM	3/13/2022 6:16AM	0:44	4:14AM	11:04AM	9:03PM	6:16AM	2:47PM	5:32AM

MARCH/APRIL

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
3/26/2022	3/26/2022 3:25AM	3/26/2022 4:25AM	0:59	3:25AM	10:16AM	9:19PM	5:50AM	4:25AM	1:34PM
3/27/2022	3/27/2022 3:21AM	3/27/2022 5:14AM	1:52	3:21AM	10:12AM	9:20PM	5:49AM	5:14AM	2:46PM
3/28/2022	3/28/2022 3:17AM	3/28/2022 5:47AM	2:30	3:17AM	10:08AM	9:21PM	5:47AM	5:53AM	3:59PM
3/29/2022	3/29/2022 3:13AM	3/29/2022 5:46AM	2:33	3:13AM	10:04AM	9:22PM	5:46AM	6:26AM	5:11PM
3/30/2022	3/30/2022 3:09AM	3/30/2022 5:44AM	2:35	3:09AM	10:00AM	9:23PM	5:44AM	6:53AM	6:20PM
3/31/2022	3/31/2022 3:05AM	3/31/2022 5:43AM	2:38	3:05AM	9:56AM	9:25PM	5:43AM	7:18AM	7:27PM
4/1/2022	4/1/2022 3:01AM	4/1/2022 5:42AM	2:41	3:01AM	9:52AM	9:26PM	5:42AM	7:42AM	8:32PM
4/2/2022	4/2/2022 2:56AM	4/2/2022 5:40AM	2:43	2:56AM	9:47AM	9:27PM	5:40AM	8:05AM	9:36PM
4/3/2022	4/3/2022 2:52AM	4/3/2022 5:39AM	2:46	2:52AM	9:43AM	9:28PM	5:39AM	8:30AM	10:40PM
4/4/2022	4/4/2022 2:48AM	4/4/2022 5:37AM	2:48	2:48AM	9:39AM	9:29PM	5:37AM	8:58AM	11:44PM
4/5/2022	4/5/2022 2:44AM	4/5/2022 5:36AM	2:51	2:44AM	9:35AM	9:30PM	5:36AM	9:29AM	
4/6/2022	4/6/2022 2:40AM	4/6/2022 5:34AM	2:53	2:40AM	9:31AM	9:31PM	5:34AM	10:05AM	12:46AM
4/7/2022	4/7/2022 2:36AM	4/7/2022 5:33AM	2:56	2:36AM	9:27AM	9:32PM	5:33AM	10:48AM	1:45AM
4/8/2022	4/8/2022 2:39AM	4/8/2022 5:31AM	2:52	2:32AM	9:23AM	9:33PM	5:31AM	11:38AM	2:39AM
4/9/2022	4/9/2022 3:27AM	4/9/2022 5:30AM	2:03	2:28AM	9:19AM	9:34PM	5:30AM	12:33PM	3:27AM
4/10/2022	4/10/2022 4:08AM	4/10/2022 5:29AM	1:21	2:24AM	9:15AM	9:35PM	5:29AM	1:34PM	4:08AM
4/11/2022	4/11/2022 4:44AM	4/11/2022 5:27AM	0:43	2:20AM	9:11AM	9:36PM	5:27AM	2:38PM	4:44AM
4/12/2022	4/12/2022 5:15AM	4/12/2022 5:26AM	0:11	2:16AM	9:07AM	9:37PM	5:26AM	3:43PM	5:15AM

APRIL/MAY

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
4/22/2022	4/22/2022 1:35AM	4/22/2022 2:22AM	0:46	1:35AM	8:25AM	9:55PM	5:01AM	2:22AM	11:25AM
4/23/2022	4/23/2022 1:31AM	4/23/2022 3:14AM	1:42	1:31AM	8:21AM	9:56PM	5:00AM	3:14AM	12:37PM
4/24/2022	4/24/2022 1:27AM	4/24/2022 3:56AM	2:28	1:27AM	8:17AM	9:57PM	4:58AM	3:56AM	1:50PM
4/25/2022	4/25/2022 1:23AM	4/25/2022 4:29AM	3:05	1:23AM	8:13AM	9:58PM	4:57AM	4:29AM	3:01PM
4/26/2022	4/26/2022 1:19AM	4/26/2022 4:55AM	3:36	1:19AM	8:09AM	9:59PM	4:55AM	4:58AM	4:09PM
4/27/2022	4/27/2022 1:15AM	4/27/2022 4:54AM	3:39	1:15AM	8:05AM	10:00PM	4:54AM	5:23AM	5:15PM
4/28/2022	4/28/2022 1:11AM	4/28/2022 4:52AM	3:41	1:11AM	8:01AM	10:01PM	4:52AM	5:46AM	6:20PM
4/29/2022	4/29/2022 1:07AM	4/29/2022 4:51AM	3:44	1:07AM	7:57AM	10:03PM	4:51AM	6:09AM	7:24PM
4/30/2022	4/30/2022 1:03AM	4/30/2022 4:50AM	3:47	1:03AM	7:53AM	10:04PM	4:50AM	6:33AM	8:28PM
5/1/2022	5/1/2022 12:58AM	5/1/2022 4:48AM	3:49	12:58AM	7:48AM	10:05PM	4:48AM	6:58AM	9:31PM
5/2/2022	5/2/2022 12:54AM	5/2/2022 4:47AM	3:52	12:54AM	7:44AM	10:06PM	4:47AM	7:28AM	10:34PM
5/3/2022	5/3/2022 12:50AM	5/3/2022 4:45AM	3:54	12:50AM	7:40AM	10:07PM	4:45AM	8:02AM	11:35PM
5/4/2022	5/4/2022 12:46AM	5/4/2022 4:44AM	3:57	12:46AM	7:36AM	10:08PM	4:44AM	8:42AM	
5/5/2022	5/5/2022 12:42AM	5/5/2022 4:42AM	3:59	12:42AM	7:32AM	10:09PM	4:42AM	9:29AM	12:31AM
5/6/2022	5/6/2022 1:22AM	5/6/2022 4:41AM	3:19	12:38AM	7:28AM	10:10PM	4:41AM	10:23AM	1:22AM
5/7/2022	5/7/2022 2:05AM	5/7/2022 4:39AM	2:34	12:34AM	7:24AM	10:11PM	4:39AM	11:21AM	2:05AM
5/8/2022	5/8/2022 2:43AM	5/8/2022 4:38AM	1:55	12:30AM	7:20AM	10:12PM	4:38AM	12:23PM	2:43AM
5/9/2022	5/9/2022 3:15AM	5/9/2022 4:37AM	1:22	12:26AM	7:16AM	10:13PM	4:37AM	1:26PM	3:15AM
5/10/2022	5/10/2022 3:43AM	5/10/2022 4:35AM	0:52	12:22AM	7:12AM	10:14PM	4:35AM	2:31PM	3:43AM
5/11/2022	5/11/2022 4:08AM	5/11/2022 4:34AM	0:26	12:18AM	7:08AM	10:15PM	4:34AM	3:37PM	4:08AM

MAY/JUNE

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
5/18/2022	5/18/2022 11:53PM	5/19/2022 12:11AM	0:17	11:53PM	6:43AM	10:11PM	4:26AM	12:11AM	8:06AM
5/19/2022	5/19/2022 11:49PM	5/20/2022 1:09AM	1:19	11:49PM	6:39AM	10:12PM	4:24AM	1:09AM	9:12AM
5/20/2022	5/20/2022 11:45PM	5/21/2022 1:56AM	2:10	11:45PM	6:35AM	10:13PM	4:23AM	1:56AM	10:24AM
5/21/2022	5/21/2022 11:41PM	5/22/2022 2:32AM	2:50	11:41PM	6:31AM	10:14PM	4:21AM	2:32AM	11:39AM
5/22/2022	5/22/2022 11:37PM	5/23/2022 3:02AM	3:24	11:37PM	6:27AM	10:15PM	4:20AM	3:02AM	12:52PM
5/23/2022	5/23/2022 11:33PM	5/24/2022 3:28AM	3:54	11:33PM	6:23AM	10:16PM	4:19AM	3:28AM	2:02PM
5/24/2022	5/24/2022 11:29PM	5/25/2022 3:52AM	4:22	11:29PM	6:19AM	10:17PM	4:17AM	3:52AM	3:08PM
5/25/2022	5/25/2022 11:25PM	5/26/2022 4:14AM	4:48	11:25PM	6:15AM	10:18PM	4:16AM	4:14AM	4:13PM
5/26/2022	5/26/2022 11:21PM	5/27/2022 4:14AM	4:53	11:21PM	6:11AM	10:19PM	4:14AM	4:37AM	5:16PM
5/27/2022	5/27/2022 11:17PM	5/28/2022 4:13AM	4:56	11:17PM	6:07AM	10:20PM	4:13AM	5:02AM	6:19PM
5/28/2022	5/28/2022 11:13PM	5/29/2022 4:11AM	4:58	11:13PM	6:03AM	10:21PM	4:11AM	5:30AM	7:22PM
5/29/2022	5/29/2022 11:09PM	5/30/2022 4:10AM	5:01	11:09PM	5:59AM	10:23PM	4:10AM	5:30AM	8:25PM
5/30/2022	5/30/2022 11:05PM	5/31/2022 4:09AM	5:04	11:05PM	5:55AM	10:24PM	4:09AM	6:40AM	9:26PM
5/31/2022	5/31/2022 11:00PM	6/1/2022 4:07AM	5:06	11:00PM	5:50AM	10:25PM	4:07AM	7:24AM	10:24PM
6/1/2022	6/1/2022 11:17PM	6/2/2022 4:06AM	4:49	10:56PM	5:46AM	10:26PM	4:06AM	8:16AM	11:17PM
6/2/2022	6/3/2022 12:03AM	6/3/2022 4:04AM	4:01	10:52PM	5:42AM	10:27PM	4:04AM	9:12AM	12:03AM
6/3/2022	6/4/2022 12:42AM	6/4/2022 4:03AM	3:21	10:48PM	5:38AM	10:28PM	4:03AM	10:12AM	12:42AM
6/4/2022	6/5/2022 1:16AM	6/5/2022 4:01AM	2:45	10:44PM	5:34AM	10:29PM	4:01AM	11:15AM	1:16AM
6/5/2022	6/6/2022 1:44AM	6/6/2022 4:00AM	2:16	10:40PM	5:30AM	10:30PM	4:00AM	12:18PM	1:44AM
6/6/2022	6/7/2022 2:10AM	6/7/2022 3:58AM	1:48	10:36PM	5:26AM	10:31PM	3:58AM	1:21PM	2:10AM
6/7/2022	6/8/2022 2:34AM	6/8/2022 3:57AM	1:23	10:32PM	5:22AM	10:32PM	3:57AM	2:26PM	2:34AM
6/8/2022	6/9/2022 2:57AM	6/9/2022 3:56AM	0:59	10:28PM	5:18AM	10:33PM	3:56AM	3:33PM	2:57AM
6/9/2022	6/10/2022 3:22AM	6/10/2022 3:54AM	0:32	10:24PM	5:14AM	10:34PM	3:54AM	4:43PM	3:22AM

JUNE/JULY

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
6/16/2022	6/16/2022 10:48PM	6/16/2022 11:48PM	0:59	10:03PM	4:49AM	10:48PM	4:01AM	11:48PM	8:03AM
6/17/2022	6/17/2022 10:49PM	6/18/2022 12:30AM	1:40	9:59PM	4:45AM	10:49PM	4:01AM	12:30AM	9:20AM
6/18/2022	6/18/2022 10:50PM	6/19/2022 1:04AM	2:13	9:55PM	4:41AM	10:50PM	4:02AM	1:04AM	10:36AM
6/19/2022	6/19/2022 10:51PM	6/20/2022 1:32AM	2:40	9:51PM	4:37AM	10:51PM	4:02AM	1:32AM	11:50AM
6/20/2022	6/20/2022 10:52PM	6/21/2022 1:56AM	3:03	9:47PM	4:33AM	10:52PM	4:02AM	1:56AM	12:59PM
6/21/2022	6/21/2022 10:53PM	6/22/2022 2:19AM	3:25	9:43PM	4:29AM	10:53PM	4:02AM	2:19AM	2:05PM
6/22/2022	6/22/2022 10:54PM	6/23/2022 2:42AM	3:47	9:39PM	4:25AM	10:54PM	4:03AM	2:42AM	3:08PM
6/23/2022	6/23/2022 10:55PM	6/24/2022 3:06AM	4:10	9:35PM	4:21AM	10:55PM	4:03AM	3:06AM	4:12PM
6/24/2022	6/24/2022 10:56PM	6/25/2022 3:33AM	4:36	9:31PM	4:17AM	10:56PM	4:03AM	3:33AM	5:15PM
6/25/2022	6/25/2022 10:57PM	6/26/2022 4:03AM	5:05	9:27PM	4:13AM	10:57PM	4:04AM	4:03AM	6:17PM
6/26/2022	6/26/2022 10:58PM	6/27/2022 4:04AM	5:05	9:23PM	4:09AM	10:58PM	4:04AM	4:39AM	7:19PM
6/27/2022	6/27/2022 11:00PM	6/28/2022 4:04AM	5:04	9:19PM	4:05AM	11:00PM	4:04AM	5:22AM	8:18PM
6/28/2022	6/28/2022 11:01PM	6/29/2022 4:01AM	5:00	9:15PM	4:01AM	11:01PM	4:05AM	6:11AM	9:13PM
6/29/2022	6/29/2022 11:00PM	6/30/2022 3:56AM	4:56	9:10PM	3:56AM	11:00PM	4:05AM	7:06AM	10:01PM
6/30/2022	6/30/2022 10:58PM	7/1/2022 3:52AM	4:53	9:06PM	3:52AM	10:58PM	4:05AM	8:05AM	10:42PM
7/1/2022	7/1/2022 11:17PM	7/2/2022 3:48AM	4:31	9:02PM	3:48AM	10:57PM	4:05AM	9:07AM	11:17PM
7/2/2022	7/2/2022 11:47PM	7/3/2022 3:44AM	3:57	8:58PM	3:44AM	10:56PM	4:06AM	10:09AM	11:47PM
7/3/2022	7/4/2022 12:13AM	7/4/2022 3:40AM	3:27	8:54PM	3:40AM	10:55PM	4:06AM	11:12AM	12:13AM
7/4/2022	7/5/2022 12:37AM	7/5/2022 3:36AM	2:59	8:50PM	3:36AM	10:54PM	4:06AM	12:15PM	12:37AM
7/5/2022	7/6/2022 1:00AM	7/6/2022 3:32AM	2:32	8:46PM	3:32AM	10:53PM	4:07AM	1:19PM	1:00AM
7/6/2022	7/7/2022 1:23AM	7/7/2022 3:28AM	2:05	8:42PM	3:28AM	10:52PM	4:07AM	2:25PM	1:23AM
7/7/2022	7/8/2022 1:48AM	7/8/2022 3:24AM	1:36	8:38PM	3:24AM	10:51PM	4:07AM	3:35PM	1:48AM
7/8/2022	7/9/2022 2:16AM	7/9/2022 3:20AM	1:04	8:34PM	3:20AM	10:50PM	4:07AM	4:49PM	2:16AM
7/9/2022	7/10/2022 2:51AM	7/10/2022 3:16AM	0:25	8:30PM	3:16AM	10:49PM	4:08AM	6:05PM	2:51AM

JULY/AUGUST

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
7/16/2022	7/16/2022 10:50PM	7/16/2022 11:31PM	0:40	8:00PM	2:51AM	10:50PM	4:20AM	11:31PM	9:29AM
7/17/2022	7/17/2022 10:49PM	7/17/2022 11:58PM	1:08	7:56PM	2:47AM	10:49PM	4:22AM	11:58PM	10:43AM
7/18/2022	7/18/2022 10:47PM	7/19/2022 12:22AM	1:34	7:52PM	2:43AM	10:47PM	4:23AM	12:22AM	11:52AM
7/19/2022	7/19/2022 10:46PM	7/20/2022 12:46AM	1:59	7:48PM	2:39AM	10:46PM	4:25AM	12:46AM	12:59PM
7/20/2022	7/20/2022 10:45PM	7/21/2022 1:10AM	2:24	7:44PM	2:35AM	10:45PM	4:26AM	1:10AM	2:04PM
7/21/2022	7/21/2022 10:44PM	7/22/2022 1:36AM	2:51	7:40PM	2:31AM	10:44PM	4:27AM	1:36AM	3:07PM
7/22/2022	7/22/2022 10:42PM	7/23/2022 2:05AM	3:22	7:36PM	2:27AM	10:42PM	4:29AM	2:05AM	4:10PM
7/23/2022	7/23/2022 10:41PM	7/24/2022 2:23AM	3:41	7:32PM	2:23AM	10:41PM	4:30AM	2:39AM	3:12PM
7/24/2022	7/24/2022 10:40PM	7/25/2022 2:19AM	3:38	7:28PM	2:19AM	10:40PM	4:32AM	3:19AM	6:12PM
7/25/2022	7/25/2022 10:38PM	7/26/2022 2:15AM	3:36	7:24PM	2:15AM	10:38PM	4:33AM	4:07AM	7:08PM
7/26/2022	7/26/2022 10:37PM	7/27/2022 2:11AM	3:33	7:20PM	2:11AM	10:37PM	4:35AM	5:00AM	7:58PM
7/27/2022	7/27/2022 10:36PM	7/28/2022 2:07AM	3:30	7:16PM	2:07AM	10:36PM	4:36AM	5:59AM	8:42PM
7/28/2022	7/28/2022 10:35PM	7/29/2022 2:03AM	3:28	7:12PM	2:03AM	10:35PM	4:38AM	5:00AM	9:19PM
7/29/2022	7/29/2022 10:33PM	7/30/2022 1:58AM	3:25	7:07PM	1:58AM	10:33PM	4:39AM	8:03AM	9:50PM
7/30/2022	7/30/2022 10:32PM	7/31/2022 1:54AM	3:22	7:03PM	1:54AM	10:32PM	4:40AM	9:06AM	10:18PM
7/31/2022	7/31/2022 10:42PM	8/1/2022 1:50AM	3:08	6:59PM	1:50AM	10:30PM	4:42AM	10:08AM	10:42PM
8/1/2022	8/1/2022 11:05PM	8/2/2022 1:46AM	2:41	6:55PM	1:46AM	10:29PM	4:43AM	11:12AM	11:05PM
8/2/2022	8/2/2022 11:27PM	8/3/2022 1:42AM	2:15	6:51PM	1:42AM	10:27PM	4:45AM	12:16PM	11:27PM
8/3/2022	8/3/2022 11:51PM	8/4/2022 1:38AM	1:47	6:47PM	1:38AM	10:26PM	4:46AM	1:23PM	11:51PM
8/4/2022	8/5/2022 12:17AM	8/5/2022 1:34AM	1:17	6:43PM	1:34AM	10:24PM	4:48AM	2:33PM	12:17AM
8/5/2022	8/6/2022 12:47AM	8/6/2022 1:30AM	0:43	6:39PM	1:30AM	10:23PM	4:49AM	3:37PM	12:47AM

AUGUST/SEPTEMBER

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
8/15/2022	8/15/2022 9:59PM	8/15/2022 10:46PM	0:46	6:03PM	12:53AM	9:59PM	5:01AM	10:46PM	10:42AM
8/16/2022	8/16/2022 9:58PM	8/16/2022 11:11PM	1:12	5:59PM	12:49AM	9:58PM	5:03AM	11:11PM	11:49AM
8/17/2022	8/17/2022 9:56PM	8/17/2022 11:36PM	1:39	5:55PM	12:45AM	9:56PM	5:04AM	11:36PM	12:55PM
8/18/2022	8/18/2022 9:55PM	8/19/2022 12:05AM	2:09	5:51PM	12:41AM	9:55PM	5:06AM	12:05AM	2:00PM
8/19/2022	8/19/2022 9:54PM	8/20/2022 12:37AM	2:42	5:47PM	12:37AM	9:54PM	5:07AM	12:38AM	3:03PM
8/20/2022	8/20/2022 9:53PM	8/21/2022 12:33AM	2:40	5:43PM	12:33AM	9:53PM	5:08AM	1:16AM	4:05PM
8/21/2022	8/21/2022 9:51PM	8/22/2022 12:29AM	2:37	5:39PM	12:29AM	9:51PM	5:10AM	2:01AM	5:03PM
8/22/2022	8/22/2022 9:50PM	8/23/2022 12:25AM	2:34	5:35PM	12:25AM	9:50PM	5:11AM	2:53AM	5:55PM
8/23/2022	8/23/2022 9:49PM	8/24/2022 12:21AM	2:31	5:31PM	12:21AM	9:49PM	5:13AM	3:50AM	6:41PM
8/24/2022	8/24/2022 9:47PM	8/25/2022 12:17AM	2:29	5:27PM	12:17AM	9:47PM	5:14AM	4:51AM	7:20PM
8/25/2022	8/25/2022 9:46PM	8/26/2022 12:13AM	2:26	5:23PM	12:13AM	9:46PM	5:16AM	5:54AM	7:53PM
8/26/2022	8/26/2022 9:45PM	8/27/2022 12:09AM	2:23	5:19PM	12:09AM	9:45PM	5:17AM	6:58AM	8:21PM
8/27/2022	8/27/2022 9:44PM	8/28/2022 12:05AM	2:21	5:15PM	12:05AM	9:44PM	5:19AM	8:01AM	8:46PM
8/28/2022	8/28/2022 9:42PM	8/29/2022 12:00AM	2:18	5:10PM	12:00AM	9:42PM	5:20AM	9:05AM	9:10PM
8/29/2022	8/29/2022 9:41PM	8/29/2022 11:56PM	2:15	5:06PM	11:56PM	9:41PM	5:21AM	10:09AM	9:32PM
8/30/2022	8/30/2022 9:55PM	8/30/2022 11:52PM	1:57	5:02PM	11:52PM	9:39PM	5:23AM	11:16AM	9:55PM
8/31/2022	8/31/2022 10:20PM	8/31/2022 11:48PM	1:28	4:58PM	11:48PM	9:38PM	5:24AM	12:25AM	10:20PM
9/1/2022	9/1/2022 10:49PM	9/1/2022 11:44PM	0:55	4:54PM	11:44PM	9:36PM	5:26AM	1:36AM	10:49PM
9/2/2022	9/2/2022 11:23PM	9/2/2022 11:40PM	0:17	4:50PM	11:40PM	9:35PM	5:27AM	2:49AM	11:23PM

LATE SEPTEMBER

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
9/13/2022	9/13/2022 9:13PM	9/13/2022 9:36PM	0:22	4:09PM	10:58PM	9:13PM	5:37AM	9:36PM	10:37AM
9/14/2022	9/14/2022 9:11PM	9/14/2022 10:03PM	0:51	4:05PM	10:54PM	9:11PM	5:38AM	10:03PM	11:44AM
9/15/2022	9/15/2022 9:09PM	9/15/2022 10:35PM	1:25	4:01PM	10:51PM	9:09PM	5:39AM	10:35PM	12:50PM
9/16/2022	9/16/2022 9:07PM	9/16/2022 10:47PM	1:39	3:57PM	10:47PM	9:07PM	5:40AM	11:11PM	1:54PM
9/17/2022	9/17/2022 9:05PM	9/17/2022 10:43PM	1:37	3:53PM	10:43PM	9:05PM	5:41AM	11:54PM	2:54PM
9/18/2022	9/18/2022 9:04PM	9/18/2022 10:40PM	1:36	3:49PM	10:40PM	9:04PM	5:42AM		3:49PM
9/19/2022	9/19/2022 9:02PM	9/19/2022 10:36PM	1:34	3:45PM	10:36PM	9:02PM	5:43AM	12:43AM	4:37PM
9/20/2022	9/20/2022 9:00PM	9/20/2022 10:33PM	1:32	3:41PM	10:33PM	9:00PM	5:44AM	1:39AM	5:19PM
9/21/2022	9/21/2022 8:58PM	9/21/2022 10:29PM	1:30	3:37PM	10:29PM	8:58PM	5:45AM	2:39AM	5:53PM
9/22/2022	9/22/2022 8:56PM	9/22/2022 10:25PM	1:29	3:33PM	10:25PM	8:56PM	5:46AM	3:42AM	6:23PM
9/23/2022	9/23/2022 8:54PM	9/23/2022 10:22PM	1:27	3:29PM	10:22PM	8:54PM	5:47AM	4:45AM	6:50PM
9/24/2022	9/24/2022 8:52PM	9/24/2022 10:18PM	1:25	3:25PM	10:18PM	8:52PM	5:48AM	5:49AM	7:13PM
9/25/2022	9/25/2022 8:51PM	9/25/2022 10:15PM	1:24	3:21PM	10:15PM	8:51PM	5:50AM	6:54AM	7:36PM
9/26/2022	9/26/2022 8:49PM	9/26/2022 10:10PM	1:21	3:16PM	10:10PM	8:49PM	5:51AM	7:59AM	7:59PM
9/27/2022	9/27/2022 8:47PM	9/27/2022 10:06PM	1:18	3:12PM	10:06PM	8:47PM	5:53AM	9:06AM	8:23PM
9/28/2022	9/28/2022 8:51PM	9/28/2022 10:02PM	1:11	3:08PM	10:02PM	8:46PM	5:54AM	10:16AM	8:51PM
9/29/2022	9/29/2022 9:24PM	9/29/2022 9:57PM	0:33	3:04PM	9:57PM	8:44PM	5:56AM	11:28AM	9:24PM

LATE OCTOBER

Date	Session Start	Session End	Duration	MW Rise	MW Set	Astro Begins	Astro Ends	Moon Rise	Moon Set
10/13/2022	10/13/2022 8:29PM	10/13/2022 8:56PM	0:26	2:11PM	8:56PM	8:29PM	6:07AM	9:06PM	11:38AM
10/14/2022	10/14/2022 8:27PM	10/14/2022 8:52PM	0:25	2:07PM	8:52PM	8:27PM	6:08AM	9:47PM	12:42PM
10/15/2022	10/15/2022 8:25PM	10/15/2022 8:49PM	0:23	2:03PM	8:49PM	8:25PM	6:09AM	10:34PM	1:40PM
10/16/2022	10/16/2022 8:23PM	10/16/2022 8:45PM	0:21	1:59PM	8:45PM	8:23PM	6:10AM	11:27PM	2:31PM
10/17/2022	10/17/2022 8:21PM	10/17/2022 8:41PM	0:19	1:55PM	8:41PM	8:21PM	6:11AM		3:15PM
10/18/2022	10/18/2022 8:20PM	10/18/2022 8:38PM	0:18	1:51PM	8:38PM	8:20PM	6:12AM	12:26AM	3:53PM
10/19/2022	10/19/2022 8:18PM	10/19/2022 8:34PM	0:16	1:47PM	8:34PM	8:18PM	6:13AM	1:27AM	2:24PM
10/20/2022	10/20/2022 8:16PM	10/20/2022 8:31PM	0:14	1:43PM	8:31PM	8:16PM	6:14AM	2:30AM	4:51PM
10/21/2022	10/21/2022 8:14PM	10/21/2022 8:27PM	0:12	1:39PM	8:27PM	8:14PM	6:15AM	3:34AM	5:16PM
10/22/2022	10/22/2022 8:12PM	10/22/2022 8:23PM	0:11	1:35PM	8:23PM	8:12PM	6:16AM	4:48AM	5:39PM
10/23/2022	10/23/2022 8:10PM	10/23/2022 8:20PM	0:09	1:31PM	8:20PM	8:10PM	6:17AM	5:43AM	6:01PM
10/24/2022	10/24/2022 8:08PM	10/24/2022 8:16PM	0:07	1:27PM	8:16PM	8:08PM	6:18AM	6:50AM	6:25PM
10/25/2022	10/25/2022 8:07PM	10/25/2022 8:13PM	0:06	1:23PM	8:13PM	8:07PM	6:20AM	7:59AM	6:52PM
10/26/2022	10/26/2022 8:05PM	10/26/2022 8:08PM	0:03	1:18PM	8:08PM	8:05PM	6:21AM	9:12AM	6:23PM