

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					sets	---	
Tue 1 Jan	4:53 am	5:18 am	6:53 pm	7:19 pm	sets 1:01 pm	---	
Wed 2 Jan	4:53 am	5:19 am	6:53 pm	7:19 pm	rises 0:31 am	sets 1:53 pm	
Thu 3 Jan	4:54 am	5:19 am	6:54 pm	7:19 pm	rises 1:05 am	sets 2:46 pm	
Fri 4 Jan	4:55 am	5:20 am	6:54 pm	7:19 pm	rises 1:43 am	sets 3:41 pm	
Sat 5 Jan	4:55 am	5:21 am	6:54 pm	7:19 pm	rises 2:25 am	sets 4:36 pm	
Sun 6 Jan	4:56 am	5:21 am	6:54 pm	7:20 pm	rises 3:13 am	sets 5:30 pm	
Mon 7 Jan	4:57 am	5:22 am	6:55 pm	7:20 pm	rises 4:06 am	sets 6:22 pm	
Tue 8 Jan	4:57 am	5:23 am	6:55 pm	7:20 pm	rises 5:02 am	sets 7:10 pm	new
Wed 9 Jan	4:58 am	5:23 am	6:55 pm	7:20 pm	rises 6:01 am	sets 7:53 pm	
Thu 10 Jan	4:59 am	5:24 am	6:55 pm	7:20 pm	rises 7:00 am	sets 8:32 pm	
Fri 11 Jan	5:00 am	5:25 am	6:55 pm	7:20 pm	rises 7:59 am	sets 9:08 pm	
Sat 12 Jan	5:01 am	5:26 am	6:55 pm	7:20 pm	rises 8:56 am	sets 9:42 pm	
Sun 13 Jan	5:01 am	5:26 am	6:55 pm	7:20 pm	rises 9:53 am	sets 10:16 pm	
Mon 14 Jan	5:02 am	5:27 am	6:55 pm	7:20 pm	rises 10:51 am	sets 10:50 pm	
Tue 15 Jan	5:03 am	5:28 am	6:55 pm	7:20 pm	rises 11:51 am	sets 11:27 pm	1 <sup>st</sup> qtr
Wed 16 Jan	5:04 am	5:29 am	6:55 pm	7:20 pm	rises 12:54 pm	---	
Thu 17 Jan	5:04 am	5:29 am	6:55 pm	7:20 pm	sets 0:08 am	rises 2:00 pm	
Fri 18 Jan	5:05 am	5:30 am	6:55 pm	7:20 pm	sets 0:56 am	rises 3:08 pm	
Sat 19 Jan	5:06 am	5:31 am	6:55 pm	7:20 pm	sets 1:50 am	rises 4:15 pm	
Sun 20 Jan	5:07 am	5:31 am	6:55 pm	7:19 pm	sets 2:52 am	rises 5:19 pm	
Mon 21 Jan	5:08 am	5:32 am	6:55 pm	7:19 pm	sets 3:59 am	rises 6:15 pm	
Tue 22 Jan	5:08 am	5:33 am	6:54 pm	7:19 pm	sets 5:06 am	rises 7:04 pm	full
Wed 23 Jan	5:09 am	5:34 am	6:54 pm	7:19 pm	sets 6:12 am	rises 7:46 pm	
Thu 24 Jan	5:10 am	5:34 am	6:54 pm	7:18 pm	sets 7:14 am	rises 8:23 pm	
Fri 25 Jan	5:11 am	5:35 am	6:54 pm	7:18 pm	sets 8:12 am	rises 8:56 pm	
Sat 26 Jan	5:11 am	5:36 am	6:53 pm	7:18 pm	sets 9:06 am	rises 9:27 pm	
Sun 27 Jan	5:12 am	5:37 am	6:53 pm	7:17 pm	sets 9:59 am	rises 9:58 pm	
Mon 28 Jan	5:13 am	5:37 am	6:53 pm	7:17 pm	sets 10:52 am	rises 10:29 pm	
Tue 29 Jan	5:14 am	5:38 am	6:52 pm	7:17 pm	sets 11:44 am	rises 11:02 pm	
Wed 30 Jan	5:15 am	5:39 am	6:52 pm	7:16 pm	sets 12:37 pm	rises 11:39 pm	last qtr
Thu 31 Jan	5:15 am	5:40 am	6:52 pm	7:16 pm	sets 1:31 pm	---	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Fri 1 Feb	5:16 am	5:40 am	6:51 pm	7:15 pm	rises 0:19 am	sets 2:26 pm	
Sat 2 Feb	5:17 am	5:41 am	6:51 pm	7:15 pm	rises 1:05 am	sets 3:21 pm	
Sun 3 Feb	5:18 am	5:42 am	6:50 pm	7:14 pm	rises 1:55 am	sets 4:13 pm	
Mon 4 Feb	5:18 am	5:42 am	6:50 pm	7:14 pm	rises 2:50 am	sets 5:03 pm	
Tue 5 Feb	5:19 am	5:43 am	6:49 pm	7:13 pm	rises 3:49 am	sets 5:48 pm	
Wed 6 Feb	5:20 am	5:44 am	6:49 pm	7:13 pm	rises 4:49 am	sets 6:29 pm	
Thu 7 Feb	5:20 am	5:44 am	6:48 pm	7:12 pm	rises 5:48 am	sets 7:07 pm	new
Fri 8 Feb	5:21 am	5:45 am	6:48 pm	7:11 pm	rises 6:48 am	sets 7:43 pm	
Sat 9 Feb	5:22 am	5:46 am	6:47 pm	7:11 pm	rises 7:46 am	sets 8:17 pm	
Sun 10 Feb	5:23 am	5:46 am	6:47 pm	7:10 pm	rises 8:45 am	sets 8:52 pm	
Mon 11 Feb	5:23 am	5:47 am	6:46 pm	7:09 pm	rises 9:45 am	sets 9:28 pm	
Tue 12 Feb	5:24 am	5:48 am	6:45 pm	7:09 pm	rises 10:48 am	sets 10:08 pm	
Wed 13 Feb	5:25 am	5:48 am	6:45 pm	7:08 pm	rises 11:52 am	sets 10:53 pm	
Thu 14 Feb	5:25 am	5:49 am	6:44 pm	7:07 pm	rises 12:59 pm	sets 11:44 pm	1 <sup>st</sup> qtr
Fri 15 Feb	5:26 am	5:49 am	6:43 pm	7:07 pm	rises 2:05 pm	---	
Sat 16 Feb	5:27 am	5:50 am	6:43 pm	7:06 pm	sets 0:42 am	rises 3:08 pm	
Sun 17 Feb	5:27 am	5:51 am	6:42 pm	7:05 pm	sets 1:45 am	rises 4:06 pm	
Mon 18 Feb	5:28 am	5:51 am	6:41 pm	7:04 pm	sets 2:51 am	rises 4:57 pm	
Tue 19 Feb	5:28 am	5:52 am	6:40 pm	7:04 pm	sets 3:56 am	rises 5:40 pm	
Wed 20 Feb	5:29 am	5:52 am	6:40 pm	7:03 pm	sets 4:58 am	rises 6:19 pm	
Thu 21 Feb	5:30 am	5:53 am	6:39 pm	7:02 pm	sets 5:57 am	rises 6:53 pm	full
Fri 22 Feb	5:30 am	5:54 am	6:38 pm	7:01 pm	sets 6:53 am	rises 7:25 pm	
Sat 23 Feb	5:31 am	5:54 am	6:37 pm	7:00 pm	sets 7:47 am	rises 7:56 pm	
Sun 24 Feb	5:31 am	5:55 am	6:36 pm	6:59 pm	sets 8:40 am	rises 8:27 pm	
Mon 25 Feb	5:32 am	5:55 am	6:36 pm	6:59 pm	sets 9:33 am	rises 9:00 pm	
Tue 26 Feb	5:33 am	5:56 am	6:35 pm	6:58 pm	sets 10:26 am	rises 9:35 pm	
Wed 27 Feb	5:33 am	5:56 am	6:34 pm	6:57 pm	sets 11:21 am	rises 10:14 pm	
Thu 28 Feb	5:34 am	5:57 am	6:33 pm	6:56 pm	sets 12:15 pm	rises 10:57 pm	
Fri 29 Feb	5:34 am	5:57 am	6:32 pm	6:55 pm	sets 1:10 pm	rises 11:45 pm	last qtr

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					sets	---	
Sat 1 Mar	5:35 am	5:58 am	6:31 pm	6:54 pm	sets 2:03 pm	---	
Sun 2 Mar	5:35 am	5:58 am	6:30 pm	6:53 pm	rises 0:38 am	sets 2:53 pm	
Mon 3 Mar	5:36 am	5:59 am	6:29 pm	6:52 pm	rises 1:34 am	sets 3:40 pm	
Tue 4 Mar	5:36 am	5:59 am	6:28 pm	6:51 pm	rises 2:33 am	sets 4:23 pm	
Wed 5 Mar	5:37 am	6:00 am	6:28 pm	6:50 pm	rises 3:33 am	sets 5:02 pm	
Thu 6 Mar	5:37 am	6:00 am	6:27 pm	6:49 pm	rises 4:33 am	sets 5:39 pm	
Fri 7 Mar	5:38 am	6:01 am	6:26 pm	6:48 pm	rises 5:32 am	sets 6:14 pm	new
Sat 8 Mar	5:38 am	6:01 am	6:25 pm	6:47 pm	rises 6:33 am	sets 6:50 pm	
Sun 9 Mar	5:39 am	6:01 am	6:24 pm	6:47 pm	rises 7:34 am	sets 7:26 pm	
Mon 10 Mar	5:39 am	6:02 am	6:23 pm	6:46 pm	rises 8:37 am	sets 8:06 pm	
Tue 11 Mar	5:40 am	6:02 am	6:22 pm	6:45 pm	rises 9:43 am	sets 8:50 pm	
Wed 12 Mar	5:40 am	6:03 am	6:21 pm	6:44 pm	rises 10:50 am	sets 9:40 pm	
Thu 13 Mar	5:41 am	6:03 am	6:20 pm	6:43 pm	rises 11:58 am	sets 10:37 pm	
Fri 14 Mar	5:41 am	6:04 am	6:19 pm	6:42 pm	rises 1:03 pm	sets 11:39 pm	1 <sup>st</sup> qtr
Sat 15 Mar	5:41 am	6:04 am	6:18 pm	6:41 pm	rises 2:02 pm	---	
Sun 16 Mar	5:42 am	6:04 am	6:17 pm	6:40 pm	sets 0:43 am	rises 2:53 pm	
Mon 17 Mar	5:42 am	6:05 am	6:16 pm	6:39 pm	sets 1:47 am	rises 3:38 pm	
Tue 18 Mar	5:43 am	6:05 am	6:15 pm	6:38 pm	sets 2:49 am	rises 4:18 pm	
Wed 19 Mar	5:43 am	6:06 am	6:14 pm	6:37 pm	sets 3:48 am	rises 4:53 pm	
Thu 20 Mar	5:44 am	6:06 am	6:13 pm	6:36 pm	sets 4:44 am	rises 5:25 pm	
Fri 21 Mar	5:44 am	6:07 am	6:12 pm	6:35 pm	sets 5:38 am	rises 5:56 pm	full
Sat 22 Mar	5:44 am	6:07 am	6:11 pm	6:34 pm	sets 6:31 am	rises 6:27 pm	
Sun 23 Mar	5:45 am	6:07 am	6:10 pm	6:33 pm	sets 7:24 am	rises 6:59 pm	
Mon 24 Mar	5:45 am	6:08 am	6:09 pm	6:32 pm	sets 8:17 am	rises 7:33 pm	
Tue 25 Mar	5:46 am	6:08 am	6:08 pm	6:31 pm	sets 9:11 am	rises 8:10 pm	
Wed 26 Mar	5:46 am	6:09 am	6:07 pm	6:30 pm	sets 10:05 am	rises 8:52 pm	
Thu 27 Mar	5:46 am	6:09 am	6:06 pm	6:29 pm	sets 11:00 am	rises 9:38 pm	
Fri 28 Mar	5:47 am	6:09 am	6:05 pm	6:28 pm	sets 11:54 am	rises 10:28 pm	
Sat 29 Mar	5:47 am	6:10 am	6:04 pm	6:27 pm	sets 12:44 pm	rises 11:22 pm	last qtr
Sun 30 Mar	5:47 am	6:10 am	6:03 pm	6:26 pm	sets 1:32 pm	---	
Mon 31 Mar	5:48 am	6:10 am	6:02 pm	6:25 pm	rises 0:19 am	sets 2:15 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Tue 1 Apr	5:48 am	6:11 am	6:01 pm	6:24 pm	rises 1:17 am	sets 2:55 pm	
Wed 2 Apr	5:49 am	6:11 am	6:00 pm	6:23 pm	rises 2:16 am	sets 3:33 pm	
Thu 3 Apr	5:49 am	6:12 am	5:59 pm	6:22 pm	rises 3:15 am	sets 4:08 pm	
Fri 4 Apr	5:49 am	6:12 am	5:58 pm	6:21 pm	rises 4:14 am	sets 4:44 pm	
Sat 5 Apr	5:50 am	6:12 am	5:57 pm	6:20 pm	rises 5:15 am	sets 5:20 pm	
Sun 6 Apr	5:50 am	6:13 am	5:56 pm	6:19 pm	rises 6:19 am	sets 5:59 pm	new
Mon 7 Apr	5:50 am	6:13 am	5:55 pm	6:18 pm	rises 7:25 am	sets 6:43 pm	
Tue 8 Apr	5:51 am	6:14 am	5:54 pm	6:17 pm	rises 8:34 am	sets 7:32 pm	
Wed 9 Apr	5:51 am	6:14 am	5:53 pm	6:16 pm	rises 9:45 am	sets 8:28 pm	
Thu 10 Apr	5:52 am	6:14 am	5:52 pm	6:15 pm	rises 10:53 am	sets 9:30 pm	
Fri 11 Apr	5:52 am	6:15 am	5:52 pm	6:14 pm	rises 11:55 am	sets 10:36 pm	
Sat 12 Apr	5:52 am	6:15 am	5:51 pm	6:13 pm	rises 12:51 pm	sets 11:41 pm	1 <sup>st</sup> qtr
Sun 13 Apr	5:53 am	6:16 am	5:50 pm	6:13 pm	rises 1:38 pm	---	
Mon 14 Apr	5:53 am	6:16 am	5:49 pm	6:12 pm	sets 0:44 am	rises 2:18 pm	
Tue 15 Apr	5:53 am	6:16 am	5:48 pm	6:11 pm	sets 1:43 am	rises 2:54 pm	
Wed 16 Apr	5:54 am	6:17 am	5:47 pm	6:10 pm	sets 2:39 am	rises 3:27 pm	
Thu 17 Apr	5:54 am	6:17 am	5:46 pm	6:09 pm	sets 3:33 am	rises 3:58 pm	
Fri 18 Apr	5:55 am	6:18 am	5:45 pm	6:08 pm	sets 4:25 am	rises 4:28 pm	
Sat 19 Apr	5:55 am	6:18 am	5:44 pm	6:07 pm	sets 5:17 am	rises 5:00 pm	
Sun 20 Apr	5:55 am	6:18 am	5:44 pm	6:07 pm	sets 6:10 am	rises 5:33 pm	full
Mon 21 Apr	5:56 am	6:19 am	5:43 pm	6:06 pm	sets 7:03 am	rises 6:09 pm	
Tue 22 Apr	5:56 am	6:19 am	5:42 pm	6:05 pm	sets 7:58 am	rises 6:49 pm	
Wed 23 Apr	5:57 am	6:20 am	5:41 pm	6:04 pm	sets 8:53 am	rises 7:33 pm	
Thu 24 Apr	5:57 am	6:20 am	5:40 pm	6:04 pm	sets 9:46 am	rises 8:22 pm	
Fri 25 Apr	5:57 am	6:21 am	5:40 pm	6:03 pm	sets 10:38 am	rises 9:15 pm	
Sat 26 Apr	5:58 am	6:21 am	5:39 pm	6:02 pm	sets 11:26 am	rises 10:10 pm	
Sun 27 Apr	5:58 am	6:21 am	5:38 pm	6:01 pm	sets 12:10 pm	rises 11:06 pm	
Mon 28 Apr	5:59 am	6:22 am	5:37 pm	6:01 pm	sets 12:51 pm	---	last qtr
Tue 29 Apr	5:59 am	6:22 am	5:37 pm	6:00 pm	rises 0:03 am	sets 1:28 pm	
Wed 30 Apr	5:59 am	6:23 am	5:36 pm	5:59 pm	rises 1:00 am	sets 2:03 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Thu 1 May	6:00 am	6:23 am	5:35 pm	5:59 pm	rises 1:58 am	sets 2:38 pm	
Fri 2 May	6:00 am	6:24 am	5:35 pm	5:58 pm	rises 2:56 am	sets 3:13 pm	
Sat 3 May	6:01 am	6:24 am	5:34 pm	5:57 pm	rises 3:57 am	sets 3:50 pm	
Sun 4 May	6:01 am	6:25 am	5:33 pm	5:57 pm	rises 5:02 am	sets 4:31 pm	
Mon 5 May	6:02 am	6:25 am	5:33 pm	5:56 pm	rises 6:10 am	sets 5:19 pm	new
Tue 6 May	6:02 am	6:26 am	5:32 pm	5:56 pm	rises 7:22 am	sets 6:13 pm	
Wed 7 May	6:02 am	6:26 am	5:31 pm	5:55 pm	rises 8:34 am	sets 7:15 pm	
Thu 8 May	6:03 am	6:27 am	5:31 pm	5:55 pm	rises 9:41 am	sets 8:21 pm	
Fri 9 May	6:03 am	6:27 am	5:30 pm	5:54 pm	rises 10:42 am	sets 9:29 pm	
Sat 10 May	6:04 am	6:27 am	5:30 pm	5:54 pm	rises 11:33 am	sets 10:35 pm	
Sun 11 May	6:04 am	6:28 am	5:29 pm	5:53 pm	rises 12:17 pm	sets 11:37 pm	
Mon 12 May	6:05 am	6:28 am	5:29 pm	5:53 pm	rises 12:55 pm	---	1 <sup>st</sup> qtr
Tue 13 May	6:05 am	6:29 am	5:28 pm	5:52 pm	sets 0:35 am	rises 1:29 pm	
Wed 14 May	6:05 am	6:29 am	5:28 pm	5:52 pm	sets 1:29 am	rises 2:00 pm	
Thu 15 May	6:06 am	6:30 am	5:27 pm	5:51 pm	sets 2:22 am	rises 2:31 pm	
Fri 16 May	6:06 am	6:30 am	5:27 pm	5:51 pm	sets 3:14 am	rises 3:02 pm	
Sat 17 May	6:07 am	6:31 am	5:26 pm	5:51 pm	sets 4:06 am	rises 3:34 pm	
Sun 18 May	6:07 am	6:31 am	5:26 pm	5:50 pm	sets 4:58 am	rises 4:09 pm	
Mon 19 May	6:08 am	6:32 am	5:26 pm	5:50 pm	sets 5:52 am	rises 4:48 pm	
Tue 20 May	6:08 am	6:32 am	5:25 pm	5:50 pm	sets 6:47 am	rises 5:31 pm	full
Wed 21 May	6:08 am	6:33 am	5:25 pm	5:49 pm	sets 7:41 am	rises 6:18 pm	
Thu 22 May	6:09 am	6:33 am	5:25 pm	5:49 pm	sets 8:33 am	rises 7:10 pm	
Fri 23 May	6:09 am	6:34 am	5:24 pm	5:49 pm	sets 9:23 am	rises 8:04 pm	
Sat 24 May	6:10 am	6:34 am	5:24 pm	5:48 pm	sets 10:08 am	rises 9:00 pm	
Sun 25 May	6:10 am	6:35 am	5:24 pm	5:48 pm	sets 10:49 am	rises 9:56 pm	
Mon 26 May	6:11 am	6:35 am	5:24 pm	5:48 pm	sets 11:27 am	rises 10:51 pm	
Tue 27 May	6:11 am	6:35 am	5:23 pm	5:48 pm	sets 12:02 pm	rises 11:47 pm	
Wed 28 May	6:11 am	6:36 am	5:23 pm	5:48 pm	sets 12:35 pm	---	last qtr
Thu 29 May	6:12 am	6:36 am	5:23 pm	5:47 pm	rises 0:43 am	sets 1:09 pm	
Fri 30 May	6:12 am	6:37 am	5:23 pm	5:47 pm	rises 1:41 am	sets 1:44 pm	
Sat 31 May	6:13 am	6:37 am	5:23 pm	5:47 pm	rises 2:42 am	sets 2:22 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Sun 1 Jun	6:13 am	6:38 am	5:23 pm	5:47 pm	rises 3:47 am	sets 3:05 pm	
Mon 2 Jun	6:14 am	6:38 am	5:23 pm	5:47 pm	rises 4:56 am	sets 3:55 pm	
Tue 3 Jun	6:14 am	6:39 am	5:22 pm	5:47 pm	rises 6:08 am	sets 4:54 pm	new
Wed 4 Jun	6:14 am	6:39 am	5:22 pm	5:47 pm	rises 7:19 am	sets 5:59 pm	
Thu 5 Jun	6:15 am	6:39 am	5:22 pm	5:47 pm	rises 8:25 am	sets 7:09 pm	
Fri 6 Jun	6:15 am	6:40 am	5:22 pm	5:47 pm	rises 9:22 am	sets 8:18 pm	
Sat 7 Jun	6:15 am	6:40 am	5:22 pm	5:47 pm	rises 10:11 am	sets 9:24 pm	
Sun 8 Jun	6:16 am	6:41 am	5:22 pm	5:47 pm	rises 10:52 am	sets 10:25 pm	
Mon 9 Jun	6:16 am	6:41 am	5:22 pm	5:47 pm	rises 11:29 am	sets 11:23 pm	
Tue 10 Jun	6:17 am	6:41 am	5:22 pm	5:47 pm	rises 12:02 pm	---	1 <sup>st</sup> qtr
Wed 11 Jun	6:17 am	6:42 am	5:22 pm	5:47 pm	sets 0:17 am	rises 12:33 pm	
Thu 12 Jun	6:17 am	6:42 am	5:23 pm	5:47 pm	sets 1:09 am	rises 1:04 pm	
Fri 13 Jun	6:18 am	6:42 am	5:23 pm	5:47 pm	sets 2:02 am	rises 1:36 pm	
Sat 14 Jun	6:18 am	6:43 am	5:23 pm	5:48 pm	sets 2:54 am	rises 2:10 pm	
Sun 15 Jun	6:18 am	6:43 am	5:23 pm	5:48 pm	sets 3:47 am	rises 2:47 pm	
Mon 16 Jun	6:18 am	6:43 am	5:23 pm	5:48 pm	sets 4:42 am	rises 3:29 pm	
Tue 17 Jun	6:19 am	6:43 am	5:23 pm	5:48 pm	sets 5:36 am	rises 4:15 pm	
Wed 18 Jun	6:19 am	6:44 am	5:23 pm	5:48 pm	sets 6:29 am	rises 5:05 pm	full
Thu 19 Jun	6:19 am	6:44 am	5:24 pm	5:48 pm	sets 7:20 am	rises 5:59 pm	
Fri 20 Jun	6:19 am	6:44 am	5:24 pm	5:49 pm	sets 8:06 am	rises 6:55 pm	
Sat 21 Jun	6:20 am	6:44 am	5:24 pm	5:49 pm	sets 8:49 am	rises 7:51 pm	
Sun 22 Jun	6:20 am	6:45 am	5:24 pm	5:49 pm	sets 9:27 am	rises 8:47 pm	
Mon 23 Jun	6:20 am	6:45 am	5:24 pm	5:49 pm	sets 10:03 am	rises 9:42 pm	
Tue 24 Jun	6:20 am	6:45 am	5:25 pm	5:49 pm	sets 10:36 am	rises 10:37 pm	
Wed 25 Jun	6:20 am	6:45 am	5:25 pm	5:50 pm	sets 11:09 am	rises 11:33 pm	
Thu 26 Jun	6:21 am	6:45 am	5:25 pm	5:50 pm	sets 11:42 am	---	last qtr
Fri 27 Jun	6:21 am	6:45 am	5:26 pm	5:50 pm	rises 0:30 am	sets 12:17 pm	
Sat 28 Jun	6:21 am	6:46 am	5:26 pm	5:51 pm	rises 1:31 am	sets 12:57 pm	
Sun 29 Jun	6:21 am	6:46 am	5:26 pm	5:51 pm	rises 2:36 am	sets 1:42 pm	
Mon 30 Jun	6:21 am	6:46 am	5:26 pm	5:51 pm	rises 3:45 am	sets 2:35 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Tue 1 Jul	6:21 am	6:46 am	5:27 pm	5:52 pm	rises 4:55 am	sets 3:37 pm	
Wed 2 Jul	6:21 am	6:46 am	5:27 pm	5:52 pm	rises 6:03 am	sets 4:45 pm	
Thu 3 Jul	6:21 am	6:46 am	5:28 pm	5:52 pm	rises 7:05 am	sets 5:55 pm	new
Fri 4 Jul	6:21 am	6:46 am	5:28 pm	5:53 pm	rises 7:59 am	sets 7:04 pm	
Sat 5 Jul	6:21 am	6:46 am	5:28 pm	5:53 pm	rises 8:45 am	sets 8:09 pm	
Sun 6 Jul	6:21 am	6:46 am	5:29 pm	5:53 pm	rises 9:24 am	sets 9:10 pm	
Mon 7 Jul	6:21 am	6:46 am	5:29 pm	5:54 pm	rises 9:59 am	sets 10:07 pm	
Tue 8 Jul	6:21 am	6:46 am	5:29 pm	5:54 pm	rises 10:32 am	sets 11:01 pm	
Wed 9 Jul	6:21 am	6:46 am	5:30 pm	5:54 pm	rises 11:04 am	sets 11:55 pm	
Thu 10 Jul	6:21 am	6:45 am	5:30 pm	5:55 pm	rises 11:36 am	---	1 <sup>st</sup> qtr
Fri 11 Jul	6:21 am	6:45 am	5:31 pm	5:55 pm	sets 0:48 am	rises 12:09 pm	
Sat 12 Jul	6:21 am	6:45 am	5:31 pm	5:56 pm	sets 1:41 am	rises 12:46 pm	
Sun 13 Jul	6:20 am	6:45 am	5:31 pm	5:56 pm	sets 2:35 am	rises 1:26 pm	
Mon 14 Jul	6:20 am	6:45 am	5:32 pm	5:56 pm	sets 3:30 am	rises 2:11 pm	
Tue 15 Jul	6:20 am	6:45 am	5:32 pm	5:57 pm	sets 4:24 am	rises 3:00 pm	
Wed 16 Jul	6:20 am	6:44 am	5:33 pm	5:57 pm	sets 5:15 am	rises 3:53 pm	
Thu 17 Jul	6:20 am	6:44 am	5:33 pm	5:58 pm	sets 6:03 am	rises 4:49 pm	
Fri 18 Jul	6:19 am	6:44 am	5:34 pm	5:58 pm	sets 6:48 am	rises 5:45 pm	full
Sat 19 Jul	6:19 am	6:43 am	5:34 pm	5:58 pm	sets 7:28 am	rises 6:42 pm	
Sun 20 Jul	6:19 am	6:43 am	5:34 pm	5:59 pm	sets 8:04 am	rises 7:37 pm	
Mon 21 Jul	6:19 am	6:43 am	5:35 pm	5:59 pm	sets 8:38 am	rises 8:33 pm	
Tue 22 Jul	6:18 am	6:42 am	5:35 pm	6:00 pm	sets 9:11 am	rises 9:28 pm	
Wed 23 Jul	6:18 am	6:42 am	5:36 pm	6:00 pm	sets 9:44 am	rises 10:25 pm	
Thu 24 Jul	6:18 am	6:42 am	5:36 pm	6:00 pm	sets 10:18 am	rises 11:24 pm	
Fri 25 Jul	6:17 am	6:41 am	5:37 pm	6:01 pm	sets 10:55 am	---	last qtr
Sat 26 Jul	6:17 am	6:41 am	5:37 pm	6:01 pm	rises 0:25 am	sets 11:37 am	
Sun 27 Jul	6:16 am	6:40 am	5:38 pm	6:02 pm	rises 1:31 am	sets 12:25 pm	
Mon 28 Jul	6:16 am	6:40 am	5:38 pm	6:02 pm	rises 2:39 am	sets 1:21 pm	
Tue 29 Jul	6:15 am	6:39 am	5:38 pm	6:02 pm	rises 3:46 am	sets 2:25 pm	
Wed 30 Jul	6:15 am	6:39 am	5:39 pm	6:03 pm	rises 4:49 am	sets 3:33 pm	
Thu 31 Jul	6:14 am	6:38 am	5:39 pm	6:03 pm	rises 5:46 am	sets 4:42 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Fri 1 Aug	6:14 am	6:38 am	5:40 pm	6:04 pm	rises 6:35 am	sets 5:49 pm	new
Sat 2 Aug	6:13 am	6:37 am	5:40 pm	6:04 pm	rises 7:17 am	sets 6:52 pm	
Sun 3 Aug	6:13 am	6:37 am	5:41 pm	6:04 pm	rises 7:55 am	sets 7:52 pm	
Mon 4 Aug	6:12 am	6:36 am	5:41 pm	6:05 pm	rises 8:29 am	sets 8:49 pm	
Tue 5 Aug	6:12 am	6:35 am	5:41 pm	6:05 pm	rises 9:02 am	sets 9:44 pm	
Wed 6 Aug	6:11 am	6:35 am	5:42 pm	6:05 pm	rises 9:34 am	sets 10:38 pm	
Thu 7 Aug	6:11 am	6:34 am	5:42 pm	6:06 pm	rises 10:08 am	sets 11:32 pm	
Fri 8 Aug	6:10 am	6:33 am	5:43 pm	6:06 pm	rises 10:43 am	---	1 <sup>st</sup> qtr
Sat 9 Aug	6:09 am	6:33 am	5:43 pm	6:07 pm	sets 0:27 am	rises 11:22 am	
Sun 10 Aug	6:09 am	6:32 am	5:43 pm	6:07 pm	sets 1:22 am	rises 12:05 pm	
Mon 11 Aug	6:08 am	6:31 am	5:44 pm	6:07 pm	sets 2:16 am	rises 12:53 pm	
Tue 12 Aug	6:07 am	6:31 am	5:44 pm	6:08 pm	sets 3:08 am	rises 1:45 pm	
Wed 13 Aug	6:07 am	6:30 am	5:45 pm	6:08 pm	sets 3:58 am	rises 2:39 pm	
Thu 14 Aug	6:06 am	6:29 am	5:45 pm	6:08 pm	sets 4:44 am	rises 3:36 pm	
Fri 15 Aug	6:05 am	6:28 am	5:45 pm	6:09 pm	sets 5:25 am	rises 4:33 pm	
Sat 16 Aug	6:04 am	6:28 am	5:46 pm	6:09 pm	sets 6:03 am	rises 5:30 pm	full
Sun 17 Aug	6:03 am	6:27 am	5:46 pm	6:09 pm	sets 6:39 am	rises 6:26 pm	
Mon 18 Aug	6:03 am	6:26 am	5:47 pm	6:10 pm	sets 7:13 am	rises 7:22 pm	
Tue 19 Aug	6:02 am	6:25 am	5:47 pm	6:10 pm	sets 7:46 am	rises 8:19 pm	
Wed 20 Aug	6:01 am	6:24 am	5:47 pm	6:10 pm	sets 8:20 am	rises 9:18 pm	
Thu 21 Aug	6:00 am	6:23 am	5:48 pm	6:11 pm	sets 8:56 am	rises 10:19 pm	
Fri 22 Aug	5:59 am	6:22 am	5:48 pm	6:11 pm	sets 9:36 am	rises 11:23 pm	
Sat 23 Aug	5:59 am	6:22 am	5:48 pm	6:11 pm	sets 10:22 am	---	
Sun 24 Aug	5:58 am	6:21 am	5:49 pm	6:12 pm	rises 0:29 am	sets 11:15 am	last qtr
Mon 25 Aug	5:57 am	6:20 am	5:49 pm	6:12 pm	rises 1:35 am	sets 12:14 pm	
Tue 26 Aug	5:56 am	6:19 am	5:50 pm	6:12 pm	rises 2:39 am	sets 1:19 pm	
Wed 27 Aug	5:55 am	6:18 am	5:50 pm	6:13 pm	rises 3:36 am	sets 2:26 pm	
Thu 28 Aug	5:54 am	6:17 am	5:50 pm	6:13 pm	rises 4:27 am	sets 3:32 pm	
Fri 29 Aug	5:53 am	6:16 am	5:51 pm	6:13 pm	rises 5:11 am	sets 4:36 pm	
Sat 30 Aug	5:52 am	6:15 am	5:51 pm	6:14 pm	rises 5:50 am	sets 5:37 pm	new
Sun 31 Aug	5:51 am	6:14 am	5:51 pm	6:14 pm	rises 6:25 am	sets 6:35 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Mon 1 Sep	5:50 am	6:13 am	5:52 pm	6:14 pm	rises 6:59 am	sets 7:31 pm	
Tue 2 Sep	5:49 am	6:12 am	5:52 pm	6:15 pm	rises 7:31 am	sets 8:26 pm	
Wed 3 Sep	5:48 am	6:11 am	5:52 pm	6:15 pm	rises 8:05 am	sets 9:21 pm	
Thu 4 Sep	5:48 am	6:10 am	5:53 pm	6:15 pm	rises 8:40 am	sets 10:16 pm	
Fri 5 Sep	5:47 am	6:09 am	5:53 pm	6:16 pm	rises 9:18 am	sets 11:11 pm	
Sat 6 Sep	5:46 am	6:08 am	5:53 pm	6:16 pm	rises 10:00 am	---	
Sun 7 Sep	5:45 am	6:07 am	5:54 pm	6:16 pm	sets 0:06 am	rises 10:46 am	1 <sup>st</sup> qtr
Mon 8 Sep	5:44 am	6:06 am	5:54 pm	6:17 pm	sets 0:59 am	rises 11:35 am	
Tue 9 Sep	5:43 am	6:05 am	5:54 pm	6:17 pm	sets 1:50 am	rises 12:29 pm	
Wed 10 Sep	5:42 am	6:04 am	5:55 pm	6:17 pm	sets 2:37 am	rises 1:24 pm	
Thu 11 Sep	5:41 am	6:03 am	5:55 pm	6:18 pm	sets 3:20 am	rises 2:21 pm	
Fri 12 Sep	5:40 am	6:02 am	5:55 pm	6:18 pm	sets 4:00 am	rises 3:18 pm	
Sat 13 Sep	5:38 am	6:01 am	5:56 pm	6:18 pm	sets 4:36 am	rises 4:15 pm	
Sun 14 Sep	5:37 am	6:00 am	5:56 pm	6:18 pm	sets 5:11 am	rises 5:12 pm	
Mon 15 Sep	5:36 am	5:59 am	5:56 pm	6:19 pm	sets 5:45 am	rises 6:09 pm	full
Tue 16 Sep	5:35 am	5:58 am	5:56 pm	6:19 pm	sets 6:19 am	rises 7:09 pm	
Wed 17 Sep	5:34 am	5:57 am	5:57 pm	6:19 pm	sets 6:56 am	rises 8:10 pm	
Thu 18 Sep	5:33 am	5:56 am	5:57 pm	6:20 pm	sets 7:35 am	rises 9:15 pm	
Fri 19 Sep	5:32 am	5:55 am	5:57 pm	6:20 pm	sets 8:20 am	rises 10:21 pm	
Sat 20 Sep	5:31 am	5:54 am	5:58 pm	6:20 pm	sets 9:11 am	rises 11:28 pm	
Sun 21 Sep	5:30 am	5:53 am	5:58 pm	6:21 pm	sets 10:09 am	---	
Mon 22 Sep	5:29 am	5:52 am	5:58 pm	6:21 pm	rises 0:32 am	sets 11:12 am	last qtr
Tue 23 Sep	5:28 am	5:51 am	5:59 pm	6:21 pm	rises 1:31 am	sets 12:17 pm	
Wed 24 Sep	5:27 am	5:50 am	5:59 pm	6:22 pm	rises 2:23 am	sets 1:22 pm	
Thu 25 Sep	5:26 am	5:49 am	6:00 pm	6:22 pm	rises 3:08 am	sets 2:26 pm	
Fri 26 Sep	5:25 am	5:48 am	6:00 pm	6:23 pm	rises 3:48 am	sets 3:26 pm	
Sat 27 Sep	5:24 am	5:47 am	6:00 pm	6:23 pm	rises 4:23 am	sets 4:24 pm	
Sun 28 Sep	5:23 am	5:46 am	6:01 pm	6:23 pm	rises 4:57 am	sets 5:19 pm	
Mon 29 Sep	5:22 am	5:45 am	6:01 pm	6:24 pm	rises 5:30 am	sets 6:15 pm	new
Tue 30 Sep	5:21 am	5:43 am	6:01 pm	6:24 pm	rises 6:03 am	sets 7:10 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Wed 1 Oct	5:20 am	5:42 am	6:02 pm	6:24 pm	rises 6:37 am	sets 8:05 pm	
Thu 2 Oct	5:19 am	5:41 am	6:02 pm	6:25 pm	rises 7:14 am	sets 9:00 pm	
Fri 3 Oct	5:18 am	5:40 am	6:02 pm	6:25 pm	rises 7:55 am	sets 9:56 pm	
Sat 4 Oct	5:17 am	5:39 am	6:03 pm	6:26 pm	rises 8:39 am	sets 10:50 pm	
Sun 5 Oct	5:16 am	5:38 am	6:03 pm	6:26 pm	rises 9:27 am	sets 11:42 pm	
Mon 6 Oct	5:15 am	5:37 am	6:04 pm	6:26 pm	rises 10:19 am	---	
Tue 7 Oct	5:14 am	5:37 am	6:04 pm	6:27 pm	sets 0:30 am	rises 11:13 am	1 <sup>st</sup> qtr
Wed 8 Oct	5:13 am	5:36 am	6:04 pm	6:27 pm	sets 1:14 am	rises 12:09 pm	
Thu 9 Oct	5:12 am	5:35 am	6:05 pm	6:28 pm	sets 1:54 am	rises 1:05 pm	
Fri 10 Oct	5:11 am	5:34 am	6:05 pm	6:28 pm	sets 2:31 am	rises 2:00 pm	
Sat 11 Oct	5:10 am	5:33 am	6:06 pm	6:29 pm	sets 3:06 am	rises 2:57 pm	
Sun 12 Oct	5:09 am	5:32 am	6:06 pm	6:29 pm	sets 3:40 am	rises 3:54 pm	
Mon 13 Oct	5:08 am	5:31 am	6:07 pm	6:30 pm	sets 4:15 am	rises 4:53 pm	
Tue 14 Oct	5:07 am	5:30 am	6:07 pm	6:30 pm	sets 4:51 am	rises 5:54 pm	full
Wed 15 Oct	5:06 am	5:29 am	6:07 pm	6:30 pm	sets 5:30 am	rises 6:59 pm	
Thu 16 Oct	5:05 am	5:28 am	6:08 pm	6:31 pm	sets 6:14 am	rises 8:07 pm	
Fri 17 Oct	5:04 am	5:27 am	6:08 pm	6:31 pm	sets 7:04 am	rises 9:17 pm	
Sat 18 Oct	5:03 am	5:26 am	6:09 pm	6:32 pm	sets 8:01 am	rises 10:24 pm	
Sun 19 Oct	5:02 am	5:25 am	6:09 pm	6:33 pm	sets 9:04 am	rises 11:25 pm	
Mon 20 Oct	5:01 am	5:25 am	6:10 pm	6:33 pm	sets 10:10 am	---	
Tue 21 Oct	5:01 am	5:24 am	6:10 pm	6:34 pm	rises 0:20 am	sets 11:16 am	last qtr
Wed 22 Oct	5:00 am	5:23 am	6:11 pm	6:34 pm	rises 1:07 am	sets 12:20 pm	
Thu 23 Oct	4:59 am	5:22 am	6:11 pm	6:35 pm	rises 1:48 am	sets 1:20 pm	
Fri 24 Oct	4:58 am	5:21 am	6:12 pm	6:35 pm	rises 2:24 am	sets 2:17 pm	
Sat 25 Oct	4:57 am	5:21 am	6:12 pm	6:36 pm	rises 2:58 am	sets 3:13 pm	
Sun 26 Oct	4:56 am	5:20 am	6:13 pm	6:36 pm	rises 3:30 am	sets 4:07 pm	
Mon 27 Oct	4:56 am	5:19 am	6:14 pm	6:37 pm	rises 4:03 am	sets 5:01 pm	
Tue 28 Oct	4:55 am	5:18 am	6:14 pm	6:38 pm	rises 4:36 am	sets 5:56 pm	
Wed 29 Oct	4:54 am	5:18 am	6:15 pm	6:38 pm	rises 5:12 am	sets 6:51 pm	new
Thu 30 Oct	4:53 am	5:17 am	6:15 pm	6:39 pm	rises 5:51 am	sets 7:47 pm	
Fri 31 Oct	4:53 am	5:16 am	6:16 pm	6:40 pm	rises 6:34 am	sets 8:41 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Sat 1 Nov	4:52 am	5:16 am	6:16 pm	6:40 pm	rises 7:21 am	sets 9:34 pm	
Sun 2 Nov	4:51 am	5:15 am	6:17 pm	6:41 pm	rises 8:12 am	sets 10:23 pm	
Mon 3 Nov	4:51 am	5:15 am	6:18 pm	6:41 pm	rises 9:05 am	sets 11:09 pm	
Tue 4 Nov	4:50 am	5:14 am	6:18 pm	6:42 pm	rises 9:59 am	sets 11:50 pm	
Wed 5 Nov	4:49 am	5:13 am	6:19 pm	6:43 pm	rises 10:54 am	---	
Thu 6 Nov	4:49 am	5:13 am	6:19 pm	6:43 pm	sets 0:27 am	rises 11:48 am	1 <sup>st</sup> qtr
Fri 7 Nov	4:48 am	5:12 am	6:20 pm	6:44 pm	sets 1:02 am	rises 12:43 pm	
Sat 8 Nov	4:48 am	5:12 am	6:21 pm	6:45 pm	sets 1:36 am	rises 1:38 pm	
Sun 9 Nov	4:47 am	5:11 am	6:21 pm	6:46 pm	sets 2:09 am	rises 2:35 pm	
Mon 10 Nov	4:47 am	5:11 am	6:22 pm	6:46 pm	sets 2:43 am	rises 3:34 pm	
Tue 11 Nov	4:46 am	5:10 am	6:23 pm	6:47 pm	sets 3:20 am	rises 4:37 pm	
Wed 12 Nov	4:46 am	5:10 am	6:23 pm	6:48 pm	sets 4:02 am	rises 5:44 pm	
Thu 13 Nov	4:45 am	5:10 am	6:24 pm	6:48 pm	sets 4:50 am	rises 6:55 pm	full
Fri 14 Nov	4:45 am	5:09 am	6:25 pm	6:49 pm	sets 5:45 am	rises 8:05 pm	
Sat 15 Nov	4:44 am	5:09 am	6:25 pm	6:50 pm	sets 6:48 am	rises 9:12 pm	
Sun 16 Nov	4:44 am	5:08 am	6:26 pm	6:51 pm	sets 7:56 am	rises 10:12 pm	
Mon 17 Nov	4:44 am	5:08 am	6:27 pm	6:51 pm	sets 9:05 am	rises 11:03 pm	
Tue 18 Nov	4:43 am	5:08 am	6:27 pm	6:52 pm	sets 10:11 am	rises 11:47 pm	
Wed 19 Nov	4:43 am	5:08 am	6:28 pm	6:53 pm	sets 11:14 am	---	last qtr
Thu 20 Nov	4:43 am	5:07 am	6:29 pm	6:54 pm	rises 0:25 am	sets 12:13 pm	
Fri 21 Nov	4:43 am	5:07 am	6:30 pm	6:54 pm	rises 1:00 am	sets 1:09 pm	
Sat 22 Nov	4:42 am	5:07 am	6:30 pm	6:55 pm	rises 1:33 am	sets 2:03 pm	
Sun 23 Nov	4:42 am	5:07 am	6:31 pm	6:56 pm	rises 2:05 am	sets 2:57 pm	
Mon 24 Nov	4:42 am	5:07 am	6:32 pm	6:57 pm	rises 2:38 am	sets 3:51 pm	
Tue 25 Nov	4:42 am	5:07 am	6:32 pm	6:57 pm	rises 3:12 am	sets 4:45 pm	
Wed 26 Nov	4:42 am	5:06 am	6:33 pm	6:58 pm	rises 3:50 am	sets 5:40 pm	
Thu 27 Nov	4:42 am	5:06 am	6:34 pm	6:59 pm	rises 4:32 am	sets 6:35 pm	new
Fri 28 Nov	4:41 am	5:06 am	6:35 pm	7:00 pm	rises 5:17 am	sets 7:28 pm	
Sat 29 Nov	4:41 am	5:06 am	6:35 pm	7:00 pm	rises 6:07 am	sets 8:19 pm	
Sun 30 Nov	4:41 am	5:06 am	6:36 pm	7:01 pm	rises 6:59 am	sets 9:05 pm	

POLOKWANE 2008	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
					rises	sets	
Mon 1 Dec	4:41 am	5:06 am	6:37 pm	7:02 pm	rises 7:53 am	sets 9:47 pm	
Tue 2 Dec	4:41 am	5:06 am	6:37 pm	7:03 pm	rises 8:47 am	sets 10:26 pm	
Wed 3 Dec	4:41 am	5:07 am	6:38 pm	7:03 pm	rises 9:41 am	sets 11:01 pm	
Thu 4 Dec	4:42 am	5:07 am	6:39 pm	7:04 pm	rises 10:34 am	sets 11:34 pm	
Fri 5 Dec	4:42 am	5:07 am	6:39 pm	7:05 pm	rises 11:28 am	---	1 <sup>st</sup> qtr
Sat 6 Dec	4:42 am	5:07 am	6:40 pm	7:05 pm	sets 0:06 am	rises 12:22 pm	
Sun 7 Dec	4:42 am	5:07 am	6:41 pm	7:06 pm	sets 0:39 am	rises 1:18 pm	
Mon 8 Dec	4:42 am	5:07 am	6:41 pm	7:07 pm	sets 1:13 am	rises 2:17 pm	
Tue 9 Dec	4:42 am	5:08 am	6:42 pm	7:07 pm	sets 1:51 am	rises 3:20 pm	
Wed 10 Dec	4:43 am	5:08 am	6:43 pm	7:08 pm	sets 2:35 am	rises 4:28 pm	
Thu 11 Dec	4:43 am	5:08 am	6:43 pm	7:09 pm	sets 3:25 am	rises 5:39 pm	
Fri 12 Dec	4:43 am	5:08 am	6:44 pm	7:09 pm	sets 4:25 am	rises 6:49 pm	full
Sat 13 Dec	4:43 am	5:09 am	6:45 pm	7:10 pm	sets 5:32 am	rises 7:54 pm	
Sun 14 Dec	4:44 am	5:09 am	6:45 pm	7:11 pm	sets 6:43 am	rises 8:51 pm	
Mon 15 Dec	4:44 am	5:09 am	6:46 pm	7:11 pm	sets 7:53 am	rises 9:40 pm	
Tue 16 Dec	4:44 am	5:10 am	6:46 pm	7:12 pm	sets 9:01 am	rises 10:22 pm	
Wed 17 Dec	4:45 am	5:10 am	6:47 pm	7:12 pm	sets 10:03 am	rises 10:59 pm	
Thu 18 Dec	4:45 am	5:11 am	6:48 pm	7:13 pm	sets 11:02 am	rises 11:33 pm	
Fri 19 Dec	4:46 am	5:11 am	6:48 pm	7:14 pm	sets 11:58 am	---	last qtr
Sat 20 Dec	4:46 am	5:12 am	6:49 pm	7:14 pm	rises 0:06 am	sets 12:52 pm	
Sun 21 Dec	4:47 am	5:12 am	6:49 pm	7:15 pm	rises 0:39 am	sets 1:46 pm	
Mon 22 Dec	4:47 am	5:13 am	6:50 pm	7:15 pm	rises 1:13 am	sets 2:41 pm	
Tue 23 Dec	4:48 am	5:13 am	6:50 pm	7:16 pm	rises 1:50 am	sets 3:35 pm	
Wed 24 Dec	4:48 am	5:14 am	6:50 pm	7:16 pm	rises 2:30 am	sets 4:30 pm	
Thu 25 Dec	4:49 am	5:14 am	6:51 pm	7:16 pm	rises 3:14 am	sets 5:24 pm	
Fri 26 Dec	4:49 am	5:15 am	6:51 pm	7:17 pm	rises 4:02 am	sets 6:15 pm	
Sat 27 Dec	4:50 am	5:15 am	6:52 pm	7:17 pm	rises 4:54 am	sets 7:03 pm	new
Sun 28 Dec	4:50 am	5:16 am	6:52 pm	7:18 pm	rises 5:48 am	sets 7:46 pm	
Mon 29 Dec	4:51 am	5:17 am	6:52 pm	7:18 pm	rises 6:42 am	sets 8:26 pm	
Tue 30 Dec	4:52 am	5:17 am	6:53 pm	7:18 pm	rises 7:36 am	sets 9:02 pm	
Wed 31 Dec	4:52 am	5:18 am	6:53 pm	7:18 pm	rises 8:30 am	sets 9:35 pm	