

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Fri 1 Jan	5:00 am	5:24 am	6:34 pm	6:58 pm	sets 5:49 am	rises 7:24 pm	
Sat 2 Jan	5:01 am	5:25 am	6:35 pm	6:59 pm	sets 6:57 am	rises 8:16 pm	
Sun 3 Jan	5:01 am	5:25 am	6:35 pm	6:59 pm	sets 8:02 am	rises 9:03 pm	
Mon 4 Jan	5:02 am	5:26 am	6:35 pm	6:59 pm	sets 9:04 am	rises 9:46 pm	
Tue 5 Jan	5:03 am	5:27 am	6:36 pm	7:00 pm	sets 10:03 am	rises 10:26 pm	
Wed 6 Jan	5:03 am	5:27 am	6:36 pm	7:00 pm	sets 11:00 am	rises 11:06 pm	
Thu 7 Jan	5:04 am	5:28 am	6:36 pm	7:00 pm	sets 11:56 am	rises 11:47 pm	last qtr
Fri 8 Jan	5:05 am	5:29 am	6:36 pm	7:00 pm	sets 12:51 pm	---	
Sat 9 Jan	5:05 am	5:29 am	6:37 pm	7:00 pm	rises 0:29 am	sets 1:47 pm	
Sun 10 Jan	5:06 am	5:30 am	6:37 pm	7:01 pm	rises 1:14 am	sets 2:43 pm	
Mon 11 Jan	5:07 am	5:30 am	6:37 pm	7:01 pm	rises 2:02 am	sets 3:38 pm	
Tue 12 Jan	5:07 am	5:31 am	6:37 pm	7:01 pm	rises 2:52 am	sets 4:31 pm	
Wed 13 Jan	5:08 am	5:32 am	6:37 pm	7:01 pm	rises 3:45 am	sets 5:20 pm	
Thu 14 Jan	5:09 am	5:32 am	6:37 pm	7:01 pm	rises 4:37 am	sets 6:06 pm	
Fri 15 Jan	5:09 am	5:33 am	6:37 pm	7:01 pm	rises 5:30 am	sets 6:48 pm	new
Sat 16 Jan	5:10 am	5:34 am	6:37 pm	7:01 pm	rises 6:21 am	sets 7:27 pm	
Sun 17 Jan	5:11 am	5:34 am	6:37 pm	7:01 pm	rises 7:10 am	sets 8:03 pm	
Mon 18 Jan	5:11 am	5:35 am	6:37 pm	7:01 pm	rises 7:58 am	sets 8:37 pm	
Tue 19 Jan	5:12 am	5:35 am	6:37 pm	7:01 pm	rises 8:46 am	sets 9:10 pm	
Wed 20 Jan	5:13 am	5:36 am	6:37 pm	7:01 pm	rises 9:33 am	sets 9:43 pm	
Thu 21 Jan	5:13 am	5:37 am	6:37 pm	7:01 pm	rises 10:21 am	sets 10:18 pm	
Fri 22 Jan	5:14 am	5:37 am	6:37 pm	7:01 pm	rises 11:11 am	sets 10:56 pm	
Sat 23 Jan	5:15 am	5:38 am	6:37 pm	7:01 pm	rises 12:04 pm	sets 11:37 pm	1 <sup>st</sup> qtr
Sun 24 Jan	5:15 am	5:39 am	6:37 pm	7:00 pm	rises 1:00 pm	---	
Mon 25 Jan	5:16 am	5:39 am	6:37 pm	7:00 pm	sets 0:24 am	rises 2:00 pm	
Tue 26 Jan	5:16 am	5:40 am	6:37 pm	7:00 pm	sets 1:18 am	rises 3:02 pm	
Wed 27 Jan	5:17 am	5:40 am	6:37 pm	7:00 pm	sets 2:18 am	rises 4:05 pm	
Thu 28 Jan	5:18 am	5:41 am	6:37 pm	7:00 pm	sets 3:23 am	rises 5:04 pm	
Fri 29 Jan	5:18 am	5:41 am	6:36 pm	6:59 pm	sets 4:31 am	rises 5:59 pm	
Sat 30 Jan	5:19 am	5:42 am	6:36 pm	6:59 pm	sets 5:38 am	rises 6:50 pm	full
Sun 31 Jan	5:20 am	5:43 am	6:36 pm	6:59 pm	sets 6:43 am	rises 7:36 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Mon 1 Feb	5:20 am	5:43 am	6:36 pm	6:58 pm	sets 7:46 am	rises 8:19 pm	
Tue 2 Feb	5:21 am	5:44 am	6:35 pm	6:58 pm	sets 8:46 am	rises 9:01 pm	
Wed 3 Feb	5:21 am	5:44 am	6:35 pm	6:58 pm	sets 9:45 am	rises 9:43 pm	
Thu 4 Feb	5:22 am	5:45 am	6:35 pm	6:57 pm	sets 10:43 am	rises 10:26 pm	
Fri 5 Feb	5:22 am	5:45 am	6:34 pm	6:57 pm	sets 11:40 am	rises 11:11 pm	
Sat 6 Feb	5:23 am	5:46 am	6:34 pm	6:57 pm	sets 12:37 pm	rises 11:59 pm	last qtr
Sun 7 Feb	5:23 am	5:46 am	6:34 pm	6:56 pm	sets 1:33 pm	---	
Mon 8 Feb	5:24 am	5:47 am	6:33 pm	6:56 pm	rises 0:49 am	sets 2:27 pm	
Tue 9 Feb	5:25 am	5:47 am	6:33 pm	6:55 pm	rises 1:41 am	sets 3:18 pm	
Wed 10 Feb	5:25 am	5:48 am	6:32 pm	6:55 pm	rises 2:33 am	sets 4:04 pm	
Thu 11 Feb	5:26 am	5:48 am	6:32 pm	6:54 pm	rises 3:25 am	sets 4:47 pm	
Fri 12 Feb	5:26 am	5:49 am	6:31 pm	6:54 pm	rises 4:17 am	sets 5:27 pm	
Sat 13 Feb	5:26 am	5:49 am	6:31 pm	6:53 pm	rises 5:07 am	sets 6:04 pm	
Sun 14 Feb	5:27 am	5:49 am	6:30 pm	6:53 pm	rises 5:55 am	sets 6:38 pm	new
Mon 15 Feb	5:27 am	5:50 am	6:30 pm	6:52 pm	rises 6:43 am	sets 7:12 pm	
Tue 16 Feb	5:28 am	5:50 am	6:29 pm	6:52 pm	rises 7:30 am	sets 7:45 pm	
Wed 17 Feb	5:28 am	5:51 am	6:29 pm	6:51 pm	rises 8:18 am	sets 8:20 pm	
Thu 18 Feb	5:29 am	5:51 am	6:28 pm	6:51 pm	rises 9:07 am	sets 8:56 pm	
Fri 19 Feb	5:29 am	5:51 am	6:28 pm	6:50 pm	rises 9:59 am	sets 9:35 pm	
Sat 20 Feb	5:30 am	5:52 am	6:27 pm	6:49 pm	rises 10:53 am	sets 10:19 pm	
Sun 21 Feb	5:30 am	5:52 am	6:27 pm	6:49 pm	rises 11:49 am	sets 11:09 pm	
Mon 22 Feb	5:30 am	5:53 am	6:26 pm	6:48 pm	rises 12:49 pm	---	1 <sup>st</sup> qtr
Tue 23 Feb	5:31 am	5:53 am	6:25 pm	6:47 pm	sets 0:04 am	rises 1:49 pm	
Wed 24 Feb	5:31 am	5:53 am	6:25 pm	6:47 pm	sets 1:05 am	rises 2:47 pm	
Thu 25 Feb	5:32 am	5:54 am	6:24 pm	6:46 pm	sets 2:09 am	rises 3:43 pm	
Fri 26 Feb	5:32 am	5:54 am	6:23 pm	6:45 pm	sets 3:14 am	rises 4:35 pm	
Sat 27 Feb	5:32 am	5:54 am	6:23 pm	6:45 pm	sets 4:20 am	rises 5:23 pm	
Sun 28 Feb	5:33 am	5:55 am	6:22 pm	6:44 pm	sets 5:23 am	rises 6:08 pm	full

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Mon 1 Mar	5:33 am	5:55 am	6:21 pm	6:43 pm	sets 6:25 am	rises 6:51 pm	
Tue 2 Mar	5:33 am	5:55 am	6:21 pm	6:43 pm	sets 7:26 am	rises 7:34 pm	
Wed 3 Mar	5:34 am	5:56 am	6:20 pm	6:42 pm	sets 8:26 am	rises 8:18 pm	
Thu 4 Mar	5:34 am	5:56 am	6:19 pm	6:41 pm	sets 9:26 am	rises 9:04 pm	
Fri 5 Mar	5:34 am	5:56 am	6:18 pm	6:40 pm	sets 10:26 am	rises 9:52 pm	
Sat 6 Mar	5:34 am	5:56 am	6:18 pm	6:40 pm	sets 11:24 am	rises 10:43 pm	
Sun 7 Mar	5:35 am	5:57 am	6:17 pm	6:39 pm	sets 12:20 pm	rises 11:35 pm	last qtr
Mon 8 Mar	5:35 am	5:57 am	6:16 pm	6:38 pm	sets 1:13 pm	---	
Tue 9 Mar	5:35 am	5:57 am	6:15 pm	6:37 pm	rises 0:28 am	sets 2:01 pm	
Wed 10 Mar	5:36 am	5:57 am	6:15 pm	6:36 pm	rises 1:21 am	sets 2:46 pm	
Thu 11 Mar	5:36 am	5:58 am	6:14 pm	6:36 pm	rises 2:12 am	sets 3:26 pm	
Fri 12 Mar	5:36 am	5:58 am	6:13 pm	6:35 pm	rises 3:02 am	sets 4:04 pm	
Sat 13 Mar	5:36 am	5:58 am	6:12 pm	6:34 pm	rises 3:51 am	sets 4:39 pm	
Sun 14 Mar	5:37 am	5:58 am	6:12 pm	6:33 pm	rises 4:39 am	sets 5:13 pm	
Mon 15 Mar	5:37 am	5:59 am	6:11 pm	6:33 pm	rises 5:27 am	sets 5:47 pm	new
Tue 16 Mar	5:37 am	5:59 am	6:10 pm	6:32 pm	rises 6:15 am	sets 6:21 pm	
Wed 17 Mar	5:37 am	5:59 am	6:09 pm	6:31 pm	rises 7:04 am	sets 6:57 pm	
Thu 18 Mar	5:38 am	5:59 am	6:08 pm	6:30 pm	rises 7:55 am	sets 7:36 pm	
Fri 19 Mar	5:38 am	5:59 am	6:08 pm	6:29 pm	rises 8:48 am	sets 8:19 pm	
Sat 20 Mar	5:38 am	6:00 am	6:07 pm	6:29 pm	rises 9:44 am	sets 9:06 pm	
Sun 21 Mar	5:38 am	6:00 am	6:06 pm	6:28 pm	rises 10:42 am	sets 9:59 pm	
Mon 22 Mar	5:38 am	6:00 am	6:05 pm	6:27 pm	rises 11:41 am	sets 10:56 pm	
Tue 23 Mar	5:39 am	6:00 am	6:04 pm	6:26 pm	rises 12:38 pm	sets 11:57 pm	1 <sup>st</sup> qtr
Wed 24 Mar	5:39 am	6:01 am	6:04 pm	6:25 pm	rises 1:33 pm	---	
Thu 25 Mar	5:39 am	6:01 am	6:03 pm	6:25 pm	sets 1:00 am	rises 2:24 pm	
Fri 26 Mar	5:39 am	6:01 am	6:02 pm	6:24 pm	sets 2:03 am	rises 3:12 pm	
Sat 27 Mar	5:39 am	6:01 am	6:01 pm	6:23 pm	sets 3:05 am	rises 3:57 pm	
Sun 28 Mar	5:40 am	6:01 am	6:00 pm	6:22 pm	sets 4:06 am	rises 4:40 pm	
Mon 29 Mar	5:40 am	6:02 am	6:00 pm	6:21 pm	sets 5:06 am	rises 5:23 pm	
Tue 30 Mar	5:40 am	6:02 am	5:59 pm	6:21 pm	sets 6:07 am	rises 6:07 pm	full
Wed 31 Mar	5:40 am	6:02 am	5:58 pm	6:20 pm	sets 7:07 am	rises 6:53 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Thu 1 Apr	5:40 am	6:02 am	5:57 pm	6:19 pm	sets 8:08 am	rises 7:41 pm	
Fri 2 Apr	5:41 am	6:02 am	5:56 pm	6:18 pm	sets 9:09 am	rises 8:32 pm	
Sat 3 Apr	5:41 am	6:02 am	5:56 pm	6:17 pm	sets 10:07 am	rises 9:25 pm	
Sun 4 Apr	5:41 am	6:03 am	5:55 pm	6:17 pm	sets 11:03 am	rises 10:19 pm	
Mon 5 Apr	5:41 am	6:03 am	5:54 pm	6:16 pm	sets 11:54 am	rises 11:13 pm	
Tue 6 Apr	5:41 am	6:03 am	5:53 pm	6:15 pm	sets 12:41 pm	---	last qtr
Wed 7 Apr	5:41 am	6:03 am	5:53 pm	6:14 pm	rises 0:05 am	sets 1:23 pm	
Thu 8 Apr	5:42 am	6:03 am	5:52 pm	6:14 pm	rises 0:56 am	sets 2:02 pm	
Fri 9 Apr	5:42 am	6:04 am	5:51 pm	6:13 pm	rises 1:46 am	sets 2:38 pm	
Sat 10 Apr	5:42 am	6:04 am	5:50 pm	6:12 pm	rises 2:34 am	sets 3:13 pm	
Sun 11 Apr	5:42 am	6:04 am	5:50 pm	6:11 pm	rises 3:22 am	sets 3:46 pm	
Mon 12 Apr	5:42 am	6:04 am	5:49 pm	6:11 pm	rises 4:09 am	sets 4:21 pm	
Tue 13 Apr	5:43 am	6:05 am	5:48 pm	6:10 pm	rises 4:58 am	sets 4:56 pm	
Wed 14 Apr	5:43 am	6:05 am	5:47 pm	6:09 pm	rises 5:49 am	sets 5:35 pm	new
Thu 15 Apr	5:43 am	6:05 am	5:47 pm	6:09 pm	rises 6:43 am	sets 6:17 pm	
Fri 16 Apr	5:43 am	6:05 am	5:46 pm	6:08 pm	rises 7:39 am	sets 7:03 pm	
Sat 17 Apr	5:43 am	6:05 am	5:45 pm	6:07 pm	rises 8:37 am	sets 7:55 pm	
Sun 18 Apr	5:44 am	6:06 am	5:45 pm	6:07 pm	rises 9:36 am	sets 8:52 pm	
Mon 19 Apr	5:44 am	6:06 am	5:44 pm	6:06 pm	rises 10:33 am	sets 9:51 pm	
Tue 20 Apr	5:44 am	6:06 am	5:43 pm	6:05 pm	rises 11:29 am	sets 10:53 pm	
Wed 21 Apr	5:44 am	6:06 am	5:43 pm	6:05 pm	rises 12:20 pm	sets 11:54 pm	1 <sup>st</sup> qtr
Thu 22 Apr	5:45 am	6:07 am	5:42 pm	6:04 pm	rises 1:08 pm	---	
Fri 23 Apr	5:45 am	6:07 am	5:41 pm	6:04 pm	sets 0:55 am	rises 1:52 pm	
Sat 24 Apr	5:45 am	6:07 am	5:41 pm	6:03 pm	sets 1:54 am	rises 2:35 pm	
Sun 25 Apr	5:45 am	6:07 am	5:40 pm	6:02 pm	sets 2:53 am	rises 3:16 pm	
Mon 26 Apr	5:45 am	6:08 am	5:39 pm	6:02 pm	sets 3:51 am	rises 3:58 pm	
Tue 27 Apr	5:46 am	6:08 am	5:39 pm	6:01 pm	sets 4:50 am	rises 4:43 pm	
Wed 28 Apr	5:46 am	6:08 am	5:38 pm	6:01 pm	sets 5:51 am	rises 5:29 pm	full
Thu 29 Apr	5:46 am	6:09 am	5:38 pm	6:00 pm	sets 6:51 am	rises 6:19 pm	
Fri 30 Apr	5:46 am	6:09 am	5:37 pm	6:00 pm	sets 7:51 am	rises 7:12 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Sat 1 May	5:47 am	6:09 am	5:37 pm	5:59 pm	sets 8:49 am	rises 8:07 pm	
Sun 2 May	5:47 am	6:09 am	5:36 pm	5:59 pm	sets 9:43 am	rises 9:02 pm	
Mon 3 May	5:47 am	6:10 am	5:36 pm	5:58 pm	sets 10:33 am	rises 9:56 pm	
Tue 4 May	5:47 am	6:10 am	5:35 pm	5:58 pm	sets 11:18 am	rises 10:48 pm	
Wed 5 May	5:48 am	6:10 am	5:35 pm	5:57 pm	sets 11:58 am	rises 11:39 pm	
Thu 6 May	5:48 am	6:11 am	5:34 pm	5:57 pm	sets 12:36 pm	---	last qtr
Fri 7 May	5:48 am	6:11 am	5:34 pm	5:56 pm	rises 0:27 am	sets 1:11 pm	
Sat 8 May	5:49 am	6:11 am	5:33 pm	5:56 pm	rises 1:15 am	sets 1:45 pm	
Sun 9 May	5:49 am	6:12 am	5:33 pm	5:56 pm	rises 2:02 am	sets 2:18 pm	
Mon 10 May	5:49 am	6:12 am	5:33 pm	5:55 pm	rises 2:50 am	sets 2:54 pm	
Tue 11 May	5:49 am	6:12 am	5:32 pm	5:55 pm	rises 3:40 am	sets 3:31 pm	
Wed 12 May	5:50 am	6:13 am	5:32 pm	5:55 pm	rises 4:33 am	sets 4:12 pm	
Thu 13 May	5:50 am	6:13 am	5:31 pm	5:54 pm	rises 5:28 am	sets 4:57 pm	
Fri 14 May	5:50 am	6:13 am	5:31 pm	5:54 pm	rises 6:27 am	sets 5:48 pm	new
Sat 15 May	5:51 am	6:14 am	5:31 pm	5:54 pm	rises 7:27 am	sets 6:44 pm	
Sun 16 May	5:51 am	6:14 am	5:30 pm	5:53 pm	rises 8:26 am	sets 7:44 pm	
Mon 17 May	5:51 am	6:14 am	5:30 pm	5:53 pm	rises 9:24 am	sets 8:47 pm	
Tue 18 May	5:52 am	6:15 am	5:30 pm	5:53 pm	rises 10:17 am	sets 9:49 pm	
Wed 19 May	5:52 am	6:15 am	5:30 pm	5:53 pm	rises 11:06 am	sets 10:50 pm	
Thu 20 May	5:52 am	6:15 am	5:29 pm	5:52 pm	rises 11:51 am	sets 11:49 pm	
Fri 21 May	5:53 am	6:16 am	5:29 pm	5:52 pm	rises 12:33 pm	---	1 <sup>st</sup> qtr
Sat 22 May	5:53 am	6:16 am	5:29 pm	5:52 pm	sets 0:47 am	rises 1:14 pm	
Sun 23 May	5:53 am	6:16 am	5:29 pm	5:52 pm	sets 1:44 am	rises 1:55 pm	
Mon 24 May	5:54 am	6:17 am	5:29 pm	5:52 pm	sets 2:41 am	rises 2:37 pm	
Tue 25 May	5:54 am	6:17 am	5:28 pm	5:52 pm	sets 3:39 am	rises 3:22 pm	
Wed 26 May	5:54 am	6:17 am	5:28 pm	5:52 pm	sets 4:38 am	rises 4:10 pm	
Thu 27 May	5:54 am	6:18 am	5:28 pm	5:51 pm	sets 5:38 am	rises 5:01 pm	
Fri 28 May	5:55 am	6:18 am	5:28 pm	5:51 pm	sets 6:36 am	rises 5:55 pm	full
Sat 29 May	5:55 am	6:19 am	5:28 pm	5:51 pm	sets 7:32 am	rises 6:50 pm	
Sun 30 May	5:55 am	6:19 am	5:28 pm	5:51 pm	sets 8:24 am	rises 7:45 pm	
Mon 31 May	5:56 am	6:19 am	5:28 pm	5:51 pm	sets 9:11 am	rises 8:39 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Tue 1 Jun	5:56 am	6:20 am	5:28 pm	5:51 pm	sets 9:54 am	rises 9:30 pm	
Wed 2 Jun	5:56 am	6:20 am	5:28 pm	5:51 pm	sets 10:32 am	rises 10:20 pm	
Thu 3 Jun	5:57 am	6:20 am	5:28 pm	5:51 pm	sets 11:08 am	rises 11:08 pm	
Fri 4 Jun	5:57 am	6:21 am	5:28 pm	5:51 pm	sets 11:43 am	rises 11:55 pm	
Sat 5 Jun	5:57 am	6:21 am	5:28 pm	5:51 pm	sets 12:16 pm	---	last qtr
Sun 6 Jun	5:58 am	6:21 am	5:28 pm	5:51 pm	rises 0:42 am	sets 12:50 pm	
Mon 7 Jun	5:58 am	6:22 am	5:28 pm	5:51 pm	rises 1:31 am	sets 1:26 pm	
Tue 8 Jun	5:58 am	6:22 am	5:28 pm	5:51 pm	rises 2:22 am	sets 2:05 pm	
Wed 9 Jun	5:59 am	6:22 am	5:28 pm	5:51 pm	rises 3:15 am	sets 2:48 pm	
Thu 10 Jun	5:59 am	6:23 am	5:28 pm	5:52 pm	rises 4:12 am	sets 3:37 pm	
Fri 11 Jun	5:59 am	6:23 am	5:28 pm	5:52 pm	rises 5:12 am	sets 4:31 pm	
Sat 12 Jun	6:00 am	6:23 am	5:28 pm	5:52 pm	rises 6:13 am	sets 5:31 pm	new
Sun 13 Jun	6:00 am	6:24 am	5:28 pm	5:52 pm	rises 7:13 am	sets 6:34 pm	
Mon 14 Jun	6:00 am	6:24 am	5:28 pm	5:52 pm	rises 8:09 am	sets 7:38 pm	
Tue 15 Jun	6:00 am	6:24 am	5:29 pm	5:52 pm	rises 9:01 am	sets 8:42 pm	
Wed 16 Jun	6:01 am	6:24 am	5:29 pm	5:52 pm	rises 9:49 am	sets 9:43 pm	
Thu 17 Jun	6:01 am	6:25 am	5:29 pm	5:53 pm	rises 10:33 am	sets 10:42 pm	
Fri 18 Jun	6:01 am	6:25 am	5:29 pm	5:53 pm	rises 11:14 am	sets 11:39 pm	
Sat 19 Jun	6:01 am	6:25 am	5:29 pm	5:53 pm	rises 11:55 am	---	1 <sup>st</sup> qtr
Sun 20 Jun	6:02 am	6:25 am	5:29 pm	5:53 pm	sets 0:36 am	rises 12:37 pm	
Mon 21 Jun	6:02 am	6:26 am	5:30 pm	5:53 pm	sets 1:33 am	rises 1:20 pm	
Tue 22 Jun	6:02 am	6:26 am	5:30 pm	5:54 pm	sets 2:31 am	rises 2:05 pm	
Wed 23 Jun	6:02 am	6:26 am	5:30 pm	5:54 pm	sets 3:29 am	rises 2:54 pm	
Thu 24 Jun	6:03 am	6:26 am	5:30 pm	5:54 pm	sets 4:27 am	rises 3:46 pm	
Fri 25 Jun	6:03 am	6:26 am	5:31 pm	5:54 pm	sets 5:23 am	rises 4:41 pm	
Sat 26 Jun	6:03 am	6:27 am	5:31 pm	5:55 pm	sets 6:16 am	rises 5:36 pm	full
Sun 27 Jun	6:03 am	6:27 am	5:31 pm	5:55 pm	sets 7:05 am	rises 6:30 pm	
Mon 28 Jun	6:03 am	6:27 am	5:31 pm	5:55 pm	sets 7:49 am	rises 7:22 pm	
Tue 29 Jun	6:03 am	6:27 am	5:32 pm	5:55 pm	sets 8:30 am	rises 8:13 pm	
Wed 30 Jun	6:03 am	6:27 am	5:32 pm	5:56 pm	sets 9:07 am	rises 9:01 pm	

<b>HARARE 2010</b>	<b>TWILIGHT STARTS</b>	<b>SUN RISES</b>	<b>SUN SETS</b>	<b>TWILIGHT ENDS</b>	<b>MOON</b>		
Thu 1 Jul	6:04 am	6:27 am	5:32 pm	5:56 pm	sets 9:41 am	rises 9:49 pm	
Fri 2 Jul	6:04 am	6:27 am	5:33 pm	5:56 pm	sets 10:15 am	rises 10:35 pm	
Sat 3 Jul	6:04 am	6:27 am	5:33 pm	5:56 pm	sets 10:48 am	rises 11:23 pm	
Sun 4 Jul	6:04 am	6:27 am	5:33 pm	5:57 pm	sets 11:23 am	---	last qtr
Mon 5 Jul	6:04 am	6:27 am	5:33 pm	5:57 pm	rises 0:12 am	sets noon	
Tue 6 Jul	6:04 am	6:27 am	5:34 pm	5:57 pm	rises 1:03 am	sets 12:40 pm	
Wed 7 Jul	6:04 am	6:28 am	5:34 pm	5:58 pm	rises 1:58 am	sets 1:25 pm	
Thu 8 Jul	6:04 am	6:28 am	5:34 pm	5:58 pm	rises 2:55 am	sets 2:16 pm	
Fri 9 Jul	6:04 am	6:27 am	5:35 pm	5:58 pm	rises 3:56 am	sets 3:13 pm	
Sat 10 Jul	6:04 am	6:27 am	5:35 pm	5:59 pm	rises 4:56 am	sets 4:15 pm	
Sun 11 Jul	6:04 am	6:27 am	5:35 pm	5:59 pm	rises 5:55 am	sets 5:20 pm	new
Mon 12 Jul	6:04 am	6:27 am	5:36 pm	5:59 pm	rises 6:50 am	sets 6:26 pm	
Tue 13 Jul	6:04 am	6:27 am	5:36 pm	5:59 pm	rises 7:41 am	sets 7:30 pm	
Wed 14 Jul	6:04 am	6:27 am	5:36 pm	6:00 pm	rises 8:28 am	sets 8:32 pm	
Thu 15 Jul	6:04 am	6:27 am	5:37 pm	6:00 pm	rises 9:12 am	sets 9:31 pm	
Fri 16 Jul	6:04 am	6:27 am	5:37 pm	6:00 pm	rises 9:54 am	sets 10:30 pm	
Sat 17 Jul	6:03 am	6:27 am	5:37 pm	6:01 pm	rises 10:36 am	sets 11:28 pm	
Sun 18 Jul	6:03 am	6:27 am	5:38 pm	6:01 pm	rises 11:19 am	---	1 <sup>st</sup> qtr
Mon 19 Jul	6:03 am	6:26 am	5:38 pm	6:01 pm	sets 0:26 am	rises 12:04 pm	
Tue 20 Jul	6:03 am	6:26 am	5:38 pm	6:02 pm	sets 1:24 am	rises 12:52 pm	
Wed 21 Jul	6:03 am	6:26 am	5:39 pm	6:02 pm	sets 2:22 am	rises 1:42 pm	
Thu 22 Jul	6:03 am	6:26 am	5:39 pm	6:02 pm	sets 3:18 am	rises 2:35 pm	
Fri 23 Jul	6:02 am	6:25 am	5:39 pm	6:02 pm	sets 4:12 am	rises 3:29 pm	
Sat 24 Jul	6:02 am	6:25 am	5:40 pm	6:03 pm	sets 5:01 am	rises 4:23 pm	
Sun 25 Jul	6:02 am	6:25 am	5:40 pm	6:03 pm	sets 5:47 am	rises 5:16 pm	
Mon 26 Jul	6:02 am	6:25 am	5:40 pm	6:03 pm	sets 6:28 am	rises 6:07 pm	full
Tue 27 Jul	6:01 am	6:24 am	5:41 pm	6:04 pm	sets 7:06 am	rises 6:56 pm	
Wed 28 Jul	6:01 am	6:24 am	5:41 pm	6:04 pm	sets 7:42 am	rises 7:44 pm	
Thu 29 Jul	6:01 am	6:24 am	5:41 pm	6:04 pm	sets 8:16 am	rises 8:31 pm	
Fri 30 Jul	6:00 am	6:23 am	5:42 pm	6:04 pm	sets 8:49 am	rises 9:18 pm	
Sat 31 Jul	6:00 am	6:23 am	5:42 pm	6:05 pm	sets 9:23 am	rises 10:06 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Sun 1 Aug	6:00 am	6:22 am	5:42 pm	6:05 pm	sets 9:58 am	rises 10:55 pm	
Mon 2 Aug	5:59 am	6:22 am	5:42 pm	6:05 pm	sets 10:36 am	rises 11:47 pm	
Tue 3 Aug	5:59 am	6:22 am	5:43 pm	6:05 pm	sets 11:18 am	---	last qtr
Wed 4 Aug	5:58 am	6:21 am	5:43 pm	6:06 pm	rises 0:42 am	sets 12:05 pm	
Thu 5 Aug	5:58 am	6:21 am	5:43 pm	6:06 pm	rises 1:40 am	sets 12:58 pm	
Fri 6 Aug	5:58 am	6:20 am	5:44 pm	6:06 pm	rises 2:39 am	sets 1:56 pm	
Sat 7 Aug	5:57 am	6:20 am	5:44 pm	6:06 pm	rises 3:38 am	sets 2:59 pm	
Sun 8 Aug	5:57 am	6:19 am	5:44 pm	6:07 pm	rises 4:34 am	sets 4:04 pm	
Mon 9 Aug	5:56 am	6:19 am	5:44 pm	6:07 pm	rises 5:28 am	sets 5:09 pm	
Tue 10 Aug	5:56 am	6:18 am	5:45 pm	6:07 pm	rises 6:17 am	sets 6:14 pm	new
Wed 11 Aug	5:55 am	6:18 am	5:45 pm	6:07 pm	rises 7:03 am	sets 7:16 pm	
Thu 12 Aug	5:55 am	6:17 am	5:45 pm	6:07 pm	rises 7:48 am	sets 8:17 pm	
Fri 13 Aug	5:54 am	6:16 am	5:45 pm	6:08 pm	rises 8:31 am	sets 9:18 pm	
Sat 14 Aug	5:53 am	6:16 am	5:46 pm	6:08 pm	rises 9:15 am	sets 10:18 pm	
Sun 15 Aug	5:53 am	6:15 am	5:46 pm	6:08 pm	rises 10:01 am	sets 11:17 pm	
Mon 16 Aug	5:52 am	6:15 am	5:46 pm	6:08 pm	rises 10:49 am	---	1 <sup>st</sup> qtr
Tue 17 Aug	5:52 am	6:14 am	5:46 pm	6:08 pm	sets 0:16 am	rises 11:39 am	
Wed 18 Aug	5:51 am	6:13 am	5:46 pm	6:09 pm	sets 1:14 am	rises 12:32 pm	
Thu 19 Aug	5:50 am	6:13 am	5:47 pm	6:09 pm	sets 2:08 am	rises 1:25 pm	
Fri 20 Aug	5:50 am	6:12 am	5:47 pm	6:09 pm	sets 2:59 am	rises 2:19 pm	
Sat 21 Aug	5:49 am	6:11 am	5:47 pm	6:09 pm	sets 3:45 am	rises 3:12 pm	
Sun 22 Aug	5:49 am	6:11 am	5:47 pm	6:09 pm	sets 4:28 am	rises 4:03 pm	
Mon 23 Aug	5:48 am	6:10 am	5:47 pm	6:09 pm	sets 5:06 am	rises 4:53 pm	
Tue 24 Aug	5:47 am	6:09 am	5:48 pm	6:10 pm	sets 5:43 am	rises 5:41 pm	full
Wed 25 Aug	5:46 am	6:09 am	5:48 pm	6:10 pm	sets 6:17 am	rises 6:28 pm	
Thu 26 Aug	5:46 am	6:08 am	5:48 pm	6:10 pm	sets 6:51 am	rises 7:15 pm	
Fri 27 Aug	5:45 am	6:07 am	5:48 pm	6:10 pm	sets 7:24 am	rises 8:02 pm	
Sat 28 Aug	5:44 am	6:06 am	5:48 pm	6:10 pm	sets 7:59 am	rises 8:51 pm	
Sun 29 Aug	5:44 am	6:06 am	5:48 pm	6:10 pm	sets 8:36 am	rises 9:42 pm	
Mon 30 Aug	5:43 am	6:05 am	5:49 pm	6:10 pm	sets 9:16 am	rises 10:35 pm	
Tue 31 Aug	5:42 am	6:04 am	5:49 pm	6:11 pm	sets 10:00 am	rises 11:30 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Wed 1 Sep	5:41 am	6:03 am	5:49 pm	6:11 pm	sets 10:49 am	---	last qtr
Thu 2 Sep	5:41 am	6:02 am	5:49 pm	6:11 pm	rises 0:27 am	sets 11:43 am	
Fri 3 Sep	5:40 am	6:02 am	5:49 pm	6:11 pm	rises 1:24 am	sets 12:42 pm	
Sat 4 Sep	5:39 am	6:01 am	5:49 pm	6:11 pm	rises 2:20 am	sets 1:44 pm	
Sun 5 Sep	5:38 am	6:00 am	5:49 pm	6:11 pm	rises 3:13 am	sets 2:48 pm	
Mon 6 Sep	5:37 am	5:59 am	5:50 pm	6:11 pm	rises 4:03 am	sets 3:52 pm	
Tue 7 Sep	5:37 am	5:58 am	5:50 pm	6:12 pm	rises 4:51 am	sets 4:55 pm	
Wed 8 Sep	5:36 am	5:58 am	5:50 pm	6:12 pm	rises 5:37 am	sets 5:58 pm	new
Thu 9 Sep	5:35 am	5:57 am	5:50 pm	6:12 pm	rises 6:21 am	sets 7:00 pm	
Fri 10 Sep	5:34 am	5:56 am	5:50 pm	6:12 pm	rises 7:06 am	sets 8:02 pm	
Sat 11 Sep	5:33 am	5:55 am	5:50 pm	6:12 pm	rises 7:53 am	sets 9:04 pm	
Sun 12 Sep	5:33 am	5:54 am	5:50 pm	6:12 pm	rises 8:41 am	sets 10:05 pm	
Mon 13 Sep	5:32 am	5:53 am	5:51 pm	6:12 pm	rises 9:32 am	sets 11:05 pm	
Tue 14 Sep	5:31 am	5:53 am	5:51 pm	6:12 pm	rises 10:26 am	---	
Wed 15 Sep	5:30 am	5:52 am	5:51 pm	6:13 pm	sets 0:02 am	rises 11:20 am	1 <sup>st</sup> qtr
Thu 16 Sep	5:29 am	5:51 am	5:51 pm	6:13 pm	sets 0:55 am	rises 12:15 pm	
Fri 17 Sep	5:28 am	5:50 am	5:51 pm	6:13 pm	sets 1:43 am	rises 1:08 pm	
Sat 18 Sep	5:27 am	5:49 am	5:51 pm	6:13 pm	sets 2:27 am	rises 2:00 pm	
Sun 19 Sep	5:27 am	5:48 am	5:51 pm	6:13 pm	sets 3:06 am	rises 2:50 pm	
Mon 20 Sep	5:26 am	5:47 am	5:52 pm	6:13 pm	sets 3:43 am	rises 3:38 pm	
Tue 21 Sep	5:25 am	5:47 am	5:52 pm	6:13 pm	sets 4:18 am	rises 4:25 pm	
Wed 22 Sep	5:24 am	5:46 am	5:52 pm	6:14 pm	sets 4:52 am	rises 5:12 pm	
Thu 23 Sep	5:23 am	5:45 am	5:52 pm	6:14 pm	sets 5:26 am	rises 6:00 pm	full
Fri 24 Sep	5:22 am	5:44 am	5:52 pm	6:14 pm	sets 6:01 am	rises 6:48 pm	
Sat 25 Sep	5:22 am	5:43 am	5:52 pm	6:14 pm	sets 6:37 am	rises 7:38 pm	
Sun 26 Sep	5:21 am	5:42 am	5:52 pm	6:14 pm	sets 7:16 am	rises 8:31 pm	
Mon 27 Sep	5:20 am	5:42 am	5:53 pm	6:14 pm	sets 7:59 am	rises 9:25 pm	
Tue 28 Sep	5:19 am	5:41 am	5:53 pm	6:14 pm	sets 8:46 am	rises 10:20 pm	
Wed 29 Sep	5:18 am	5:40 am	5:53 pm	6:15 pm	sets 9:38 am	rises 11:16 pm	
Thu 30 Sep	5:17 am	5:39 am	5:53 pm	6:15 pm	sets 10:34 am	---	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Fri 1 Oct	5:16 am	5:38 am	5:53 pm	6:15 pm	rises 0:11 am	sets 11:33 am	last qtr
Sat 2 Oct	5:16 am	5:37 am	5:53 pm	6:15 pm	rises 1:03 am	sets 12:33 pm	
Sun 3 Oct	5:15 am	5:37 am	5:54 pm	6:15 pm	rises 1:53 am	sets 1:35 pm	
Mon 4 Oct	5:14 am	5:36 am	5:54 pm	6:16 pm	rises 2:40 am	sets 2:36 pm	
Tue 5 Oct	5:13 am	5:35 am	5:54 pm	6:16 pm	rises 3:25 am	sets 3:37 pm	
Wed 6 Oct	5:12 am	5:34 am	5:54 pm	6:16 pm	rises 4:10 am	sets 4:39 pm	
Thu 7 Oct	5:12 am	5:33 am	5:54 pm	6:16 pm	rises 4:54 am	sets 5:41 pm	new
Fri 8 Oct	5:11 am	5:33 am	5:55 pm	6:17 pm	rises 5:40 am	sets 6:44 pm	
Sat 9 Oct	5:10 am	5:32 am	5:55 pm	6:17 pm	rises 6:29 am	sets 7:47 pm	
Sun 10 Oct	5:09 am	5:31 am	5:55 pm	6:17 pm	rises 7:20 am	sets 8:49 pm	
Mon 11 Oct	5:08 am	5:30 am	5:55 pm	6:17 pm	rises 8:14 am	sets 9:49 pm	
Tue 12 Oct	5:08 am	5:30 am	5:56 pm	6:18 pm	rises 9:10 am	sets 10:45 pm	
Wed 13 Oct	5:07 am	5:29 am	5:56 pm	6:18 pm	rises 10:06 am	sets 11:37 pm	
Thu 14 Oct	5:06 am	5:28 am	5:56 pm	6:18 pm	rises 11:01 am	---	1 <sup>st</sup> qtr
Fri 15 Oct	5:05 am	5:27 am	5:56 pm	6:18 pm	sets 0:23 am	rises 11:54 am	
Sat 16 Oct	5:05 am	5:27 am	5:57 pm	6:19 pm	sets 1:04 am	rises 12:45 pm	
Sun 17 Oct	5:04 am	5:26 am	5:57 pm	6:19 pm	sets 1:43 am	rises 1:34 pm	
Mon 18 Oct	5:03 am	5:25 am	5:57 pm	6:19 pm	sets 2:18 am	rises 2:21 pm	
Tue 19 Oct	5:02 am	5:25 am	5:57 pm	6:20 pm	sets 2:52 am	rises 3:08 pm	
Wed 20 Oct	5:02 am	5:24 am	5:58 pm	6:20 pm	sets 3:26 am	rises 3:55 pm	
Thu 21 Oct	5:01 am	5:23 am	5:58 pm	6:20 pm	sets 4:01 am	rises 4:44 pm	
Fri 22 Oct	5:00 am	5:23 am	5:58 pm	6:21 pm	sets 4:37 am	rises 5:34 pm	
Sat 23 Oct	5:00 am	5:22 am	5:59 pm	6:21 pm	sets 5:15 am	rises 6:26 pm	full
Sun 24 Oct	4:59 am	5:21 am	5:59 pm	6:21 pm	sets 5:57 am	rises 7:20 pm	
Mon 25 Oct	4:58 am	5:21 am	5:59 pm	6:22 pm	sets 6:44 am	rises 8:16 pm	
Tue 26 Oct	4:58 am	5:20 am	6:00 pm	6:22 pm	sets 7:35 am	rises 9:12 pm	
Wed 27 Oct	4:57 am	5:20 am	6:00 pm	6:23 pm	sets 8:29 am	rises 10:07 pm	
Thu 28 Oct	4:57 am	5:19 am	6:00 pm	6:23 pm	sets 9:27 am	rises 10:59 pm	
Fri 29 Oct	4:56 am	5:19 am	6:01 pm	6:23 pm	sets 10:27 am	rises 11:49 pm	
Sat 30 Oct	4:56 am	5:18 am	6:01 pm	6:24 pm	sets 11:26 am	---	last qtr
Sun 31 Oct	4:55 am	5:18 am	6:02 pm	6:24 pm	rises 0:35 am	sets 12:25 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Mon 1 Nov	4:54 am	5:17 am	6:02 pm	6:25 pm	rises 1:19 am	sets 1:24 pm	
Tue 2 Nov	4:54 am	5:17 am	6:03 pm	6:25 pm	rises 2:02 am	sets 2:23 pm	
Wed 3 Nov	4:54 am	5:16 am	6:03 pm	6:26 pm	rises 2:45 am	sets 3:23 pm	
Thu 4 Nov	4:53 am	5:16 am	6:03 pm	6:26 pm	rises 3:29 am	sets 4:24 pm	
Fri 5 Nov	4:53 am	5:15 am	6:04 pm	6:27 pm	rises 4:16 am	sets 5:26 pm	
Sat 6 Nov	4:52 am	5:15 am	6:04 pm	6:27 pm	rises 5:05 am	sets 6:29 pm	new
Sun 7 Nov	4:52 am	5:15 am	6:05 pm	6:28 pm	rises 5:58 am	sets 7:31 pm	
Mon 8 Nov	4:51 am	5:14 am	6:05 pm	6:28 pm	rises 6:54 am	sets 8:31 pm	
Tue 9 Nov	4:51 am	5:14 am	6:06 pm	6:29 pm	rises 7:52 am	sets 9:25 pm	
Wed 10 Nov	4:51 am	5:14 am	6:06 pm	6:29 pm	rises 8:49 am	sets 10:15 pm	
Thu 11 Nov	4:50 am	5:13 am	6:07 pm	6:30 pm	rises 9:44 am	sets 10:59 pm	
Fri 12 Nov	4:50 am	5:13 am	6:07 pm	6:30 pm	rises 10:37 am	sets 11:39 pm	
Sat 13 Nov	4:50 am	5:13 am	6:08 pm	6:31 pm	rises 11:27 am	---	1 <sup>st</sup> qtr
Sun 14 Nov	4:49 am	5:12 am	6:08 pm	6:31 pm	sets 0:16 am	rises 12:15 pm	
Mon 15 Nov	4:49 am	5:12 am	6:09 pm	6:32 pm	sets 0:51 am	rises 1:02 pm	
Tue 16 Nov	4:49 am	5:12 am	6:09 pm	6:33 pm	sets 1:25 am	rises 1:49 pm	
Wed 17 Nov	4:49 am	5:12 am	6:10 pm	6:33 pm	sets 1:59 am	rises 2:37 pm	
Thu 18 Nov	4:48 am	5:12 am	6:10 pm	6:34 pm	sets 2:34 am	rises 3:26 pm	
Fri 19 Nov	4:48 am	5:12 am	6:11 pm	6:34 pm	sets 3:12 am	rises 4:18 pm	
Sat 20 Nov	4:48 am	5:11 am	6:12 pm	6:35 pm	sets 3:53 am	rises 5:11 pm	
Sun 21 Nov	4:48 am	5:11 am	6:12 pm	6:36 pm	sets 4:38 am	rises 6:07 pm	full
Mon 22 Nov	4:48 am	5:11 am	6:13 pm	6:36 pm	sets 5:28 am	rises 7:05 pm	
Tue 23 Nov	4:48 am	5:11 am	6:13 pm	6:37 pm	sets 6:23 am	rises 8:01 pm	
Wed 24 Nov	4:48 am	5:11 am	6:14 pm	6:38 pm	sets 7:21 am	rises 8:55 pm	
Thu 25 Nov	4:48 am	5:11 am	6:15 pm	6:38 pm	sets 8:21 am	rises 9:46 pm	
Fri 26 Nov	4:48 am	5:11 am	6:15 pm	6:39 pm	sets 9:21 am	rises 10:34 pm	
Sat 27 Nov	4:48 am	5:11 am	6:16 pm	6:39 pm	sets 10:20 am	rises 11:18 pm	
Sun 28 Nov	4:48 am	5:11 am	6:16 pm	6:40 pm	sets 11:19 am	---	last qtr
Mon 29 Nov	4:48 am	5:11 am	6:17 pm	6:41 pm	rises 0:01 am	sets 12:16 pm	
Tue 30 Nov	4:48 am	5:11 am	6:18 pm	6:41 pm	rises 0:42 am	sets 1:14 pm	

HARARE 2010	TWILIGHT STARTS	SUN RISES	SUN SETS	TWILIGHT ENDS	MOON		
Wed 1 Dec	4:48 am	5:12 am	6:18 pm	6:42 pm	rises 1:24 am	sets 2:12 pm	
Thu 2 Dec	4:48 am	5:12 am	6:19 pm	6:43 pm	rises 2:08 am	sets 3:12 pm	
Fri 3 Dec	4:48 am	5:12 am	6:19 pm	6:43 pm	rises 2:55 am	sets 4:13 pm	
Sat 4 Dec	4:48 am	5:12 am	6:20 pm	6:44 pm	rises 3:45 am	sets 5:14 pm	
Sun 5 Dec	4:48 am	5:12 am	6:21 pm	6:45 pm	rises 4:40 am	sets 6:15 pm	new
Mon 6 Dec	4:49 am	5:13 am	6:21 pm	6:45 pm	rises 5:36 am	sets 7:12 pm	
Tue 7 Dec	4:49 am	5:13 am	6:22 pm	6:46 pm	rises 6:34 am	sets 8:04 pm	
Wed 8 Dec	4:49 am	5:13 am	6:22 pm	6:46 pm	rises 7:31 am	sets 8:51 pm	
Thu 9 Dec	4:49 am	5:13 am	6:23 pm	6:47 pm	rises 8:25 am	sets 9:34 pm	
Fri 10 Dec	4:50 am	5:14 am	6:24 pm	6:48 pm	rises 9:17 am	sets 10:13 pm	
Sat 11 Dec	4:50 am	5:14 am	6:24 pm	6:48 pm	rises 10:07 am	sets 10:48 pm	
Sun 12 Dec	4:50 am	5:14 am	6:25 pm	6:49 pm	rises 10:55 am	sets 11:23 pm	
Mon 13 Dec	4:51 am	5:15 am	6:25 pm	6:49 pm	rises 11:42 am	sets 11:57 pm	1 <sup>st</sup> qtr
Tue 14 Dec	4:51 am	5:15 am	6:26 pm	6:50 pm	rises 12:29 pm	---	
Wed 15 Dec	4:51 am	5:15 am	6:27 pm	6:51 pm	sets 0:31 am	rises 1:17 pm	
Thu 16 Dec	4:52 am	5:16 am	6:27 pm	6:51 pm	sets 1:07 am	rises 2:07 pm	
Fri 17 Dec	4:52 am	5:16 am	6:28 pm	6:52 pm	sets 1:46 am	rises 2:59 pm	
Sat 18 Dec	4:53 am	5:17 am	6:28 pm	6:52 pm	sets 2:29 am	rises 3:54 pm	
Sun 19 Dec	4:53 am	5:17 am	6:29 pm	6:53 pm	sets 3:18 am	rises 4:52 pm	
Mon 20 Dec	4:53 am	5:18 am	6:29 pm	6:53 pm	sets 4:11 am	rises 5:49 pm	
Tue 21 Dec	4:54 am	5:18 am	6:30 pm	6:54 pm	sets 5:09 am	rises 6:46 pm	full
Wed 22 Dec	4:54 am	5:19 am	6:30 pm	6:54 pm	sets 6:10 am	rises 7:40 pm	
Thu 23 Dec	4:55 am	5:19 am	6:31 pm	6:55 pm	sets 7:12 am	rises 8:30 pm	
Fri 24 Dec	4:55 am	5:20 am	6:31 pm	6:55 pm	sets 8:13 am	rises 9:16 pm	
Sat 25 Dec	4:56 am	5:20 am	6:32 pm	6:56 pm	sets 9:13 am	rises 10:00 pm	
Sun 26 Dec	4:57 am	5:21 am	6:32 pm	6:56 pm	sets 10:11 am	rises 10:42 pm	
Mon 27 Dec	4:57 am	5:21 am	6:32 pm	6:57 pm	sets 11:09 am	rises 11:24 pm	
Tue 28 Dec	4:58 am	5:22 am	6:33 pm	6:57 pm	sets 12:07 pm	---	last qtr
Wed 29 Dec	4:58 am	5:22 am	6:33 pm	6:57 pm	rises 0:07 am	sets 1:05 pm	
Thu 30 Dec	4:59 am	5:23 am	6:34 pm	6:58 pm	rises 0:51 am	sets 2:04 pm	
Fri 31 Dec	4:59 am	5:23 am	6:34 pm	6:58 pm	rises 1:39 am	sets 3:04 pm	