

Holyday Dates – 2019

All dates & times are using Jerusalem, Israel
as “the center of the earth” (Ezek 38.12)
Universal Reference Point

1. **Passover/First Day of Unleavened Bread – April 19, Friday**
2. **Last Day of Unleavened Bread – April 25, Thursday**
3. **Feast of Firstfruits/Pentecost – June 9, Sunday**
4. **Feast of Trumpets – September 30, Monday**
5. **Day of Atonement – October 9, Wednesday**
6. **Feast of Tabernacles – October 14, Monday**
7. **Last Great Day – October 21, Monday**

The Holydays start at the previous day’s sunset. These Holydays are calculated using the astronomical data from <http://timeanddate.com> using the following major steps:

1. Calculate the Spring Equinox in Jerusalem
2. Find the next New Moon as the first month of the year
3. Find the next sunset in Jerusalem as the first day of year
4. Count to the 14th day as the **Passover**
5. Count to the 20th day as the **Last Day of Unleavened Bread**
6. Count 50 days from the morning after the Sabbath (Sunday) during the 14-20th days as the **Feast of Firstfruits/Pentecost** on a Sunday
7. Count to the 7th New Moon (confirm exact day with sunset times)
8. Find the next sunset in Jerusalem as the first day of the 7th month as the **Feast of Trumpets**
9. Count to the 10th day as the **Day of Atonement**
10. Count to the 15th day as the **Feast of Tabernacles**
11. Count to the 22nd day as the **Last Great Day**

Note: The governing paradigm for these Holyday calculations is to use the created astronomical clock in the sky with the sun ruling the day and the moon ruling the night and the seasons (Gen 1:16; Ps 136:7-9; 104:19), and just as the hour and minute and second hands of a wrist watch, the season (hour-hand) must be set/completed first, then the month (minute-hand), and then the day (second-hand) in order to set the proper time for events to occur. This is why we use the **next** new moon the AFTER the equinox (season) to determine the **first month**, and why we use the **next** sunset AFTER the new moon occurs to determine the **first day** of the month.

Also, because the Creator actually starts the days at sunset as recorded in Genesis with the “evening” and then “morning” being one day (Gen 1:5, 9, 8, 13, 19, 31), please note that for the dates shown for the days of the holydays, realize that the holyday actually begins at the sunset of the previous day’s date.

1. Calculate the Spring Equinox in **Jerusalem** under **Sun & Moon, Sun Calculator**
<https://www.timeanddate.com/sun/israel/jerusalem?month=3&year=2019>

2019	Sunrise/Sunset		Daylength	
Mar	Sunrise	Sunset	Length	Difference
15	5:49 am → (92°)	5:46 pm ← (268°)	11:56:54	+1:57
16	5:48 am → (92°)	5:47 pm ← (269°)	11:58:51	+1:57
17	5:47 am → (91°)	5:48 pm ← (269°)	12:00:48	+1:57

The **Spring Season** begins at the Spring Equinox, which begins in Jerusalem on the day whose "**Daylength**" is closest to **12 hours**, which above is **3/17**, which starts at the previous day's sunset.

2. Now find the first New Moon in Jerusalem **after** the above Spring Equinox date and time. This will start the first month of God's calendar year.
<https://www.timeanddate.com/moon/phases/israel/jerusalem?year=2019>

Lunation	New Moon	
1188	Jan 6	3:28 am
1189	Feb 4	11:03 pm
1190	Mar 6	6:03 pm
1191	Apr 5	11:50 am

So, from the above chart, the first **New Moon** is on **April 5** at **11:15 am**.

3. Now find the **very next sunset** in Jerusalem that occurs **after** the above New Moon date and time. This begins the **First Day** of God's calendar for the year.

<https://www.timeanddate.com/sun/israel/jerusalem?month=4&year=2019>

2019	Sunrise/Sunset		Dayl
Apr	Sunrise	Sunset	Length
1	6:28 am → (84°)	6:58 pm ← (276°)	12:30:03
2	6:27 am → (84°)	6:59 pm ← (276°)	12:31:59
3	6:25 am → (83°)	6:59 pm ← (277°)	12:33:54
4	6:24 am → (83°)	7:00 pm ← (277°)	12:35:50
5	6:23 am → (82°)	7:01 pm ← (278°)	12:37:45
6	6:22 am → (82°)	7:01 pm ← (278°)	12:39:40

So, from above chart, that **very next sunset** occurs on **April 5 at 7:01PM**. That sunset begins the **First Day** of God's Sacred Calendar Year, with day portion being on **April 6**.

4. To determine the date for **Passover (HOLIDAY 1)**, count **14 days** from and including **April 6**. This takes us to a **Passover on Friday April 19** (which begins at previous sunset).

<https://www.timeanddate.com/calendar/?year=2019>

Calendar for Year 2019 (United States)

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5						1	2						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31	24	25	26	27	28	24	25	26	27	28	29	30				
													31							
5:●	14:●	21:○	27:●	4:●	12:●	19:○	26:●	6:●	14:●	20:○	28:●									

April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6			1	2	3	4							1	
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30	26	27	28	29	30	31	23	24	25	26	27	28	29					
													30							
5:●	12:●	19:○	26:●	4:●	11:●	18:○	26:●	3:●	10:●	17:○	25:●									

5. Then count **7 days**, starting on and including **Passover (HOLYDAY 1)**, to the **Last Day of Unleavened Bread (HOLYDAY 2)** on **Thursday April 25**, which completes the Passover/Days of Unleavened Bread Feast that lasts for exactly 7 days.
<https://www.timeanddate.com/calendar/?year=2019>

Calendar for Year 2019 (United States)

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5						1	2						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30
														31						
5:● 14:○ 21:○ 27:●							4:● 12:● 19:○ 26:●							6:● 14:● 20:○ 28:●						

April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6				1	2	3	4							1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						
5:● 12:● 19:○ 26:●							4:● 11:● 18:○ 26:●							3:● 10:● 17:○ 25:●						

6. Then, to determine the date for **Pentecost (HOLYDAY 3)**, count **50 days** from and including the morning after the Sabbath (a Sunday) that occurs during that 7 days of the Passover/Days of Unleavened Bread Feast to get to the Sunday that is **Pentecost/Feast of Firstfruits**. So, the Sunday that occurs during those 7 days is **Sunday, April 21**, which is **Day 1**. **50 days** later is **Pentecost Sunday, June 9 (HOLYDAY 3)**.

<https://www.timeanddate.com/calendar/?year=2019>

Calendar for Year 2019 (United States)

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5						1	2						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30
														31						
5:●	14:●	21:○	27:●				4:●	12:●	19:○	26:●				6:●	14:●	20:○	28:●			

April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6			1	2	3	4							1	
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						
5:●	12:●	19:○	26:●				4:●	11:●	18:○	26:●				3:●	10:●	17:○	25:●			

7. Then count from the **1st New Moon** to the **7th New Moon** to find the date for the **Feast of Trumpets (HOLYDAY 4)**.

<https://www.timeanddate.com/calendar/?year=2019>

April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6			1	2	3	4							1	
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30	26	27	28	29	30	31	23	24	25	26	27	28	29					
														30						
5:●	12:○	19:○	26:○	4:●	11:○	18:○	26:○	3:●	10:○	17:○	25:○									

July							August							September						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31	25	26	27	28	29	30	31	29	30								
2:●	9:○	16:○	24:○	31:●	7:○	15:○	23:○	30:●	5:○	14:○	21:○	28:●								

October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5					1	2	1	2	3	4	5	6	7	
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
27	28	29	30	31	24	25	26	27	28	29	30	29	30	31						
5:○	13:○	21:○	27:●	4:○	12:○	19:○	26:●	4:○	12:○	18:○	26:●									

From above chart, with **First New Moon** being on **April 5**, it **appears** that the **7th New Moon** occurs on **September 28**, but we need to check for the **exact day** as shown below, because we do not want to be a day off!

So, we will use the chart below to see that the **7th New Moon** in Jerusalem, Israel, for this year occurs on **Saturday, September 28** at **9:26 pm**.

<https://www.timeanddate.com/moon/phases/israel/jerusalem?year=2019>

Moon Phases for Jerusalem, Israel in 2019

Lunation	New Moon		First Quarter
1188	Jan 6	3:28 am	Jan 14
1189	Feb 4	11:03 pm	Feb 13
1190	Mar 6	6:03 pm	Mar 14
1191	Apr 5	11:50 am	Apr 12
1192	May 5	1:45 am	May 12
1193	Jun 3	1:01 pm	Jun 10
1194	Jul 2	10:16 pm	Jul 9
1195	Aug 1	6:11 am	Aug 7
1196	Aug 30	1:37 pm	Sep 6
1197	Sep 28	9:26 pm	Oct 5

Therefore, the **very next sunset** that occurs **after** the above date and time begins the **7th New Moon day**, the **Feast of Trumpets**. So, from the chart below, that **very next sunset** occurs on **Sunday, September 29** at **6:27 pm**, with the **Day** portion of **Feast of Trumpets (HOLYDAY 4)** being on **Monday, September 30**.

<https://www.timeanddate.com/sun/israel/jerusalem?month=9&year=2019>

2019	Sunrise/Sunset	
Sep	Sunrise	Sunset
▼ 22	6:26 am → (89°)	6:36 pm ← (271°)
▼ 23	6:27 am → (89°)	6:35 pm ← (270°)
▼ 24	6:28 am → (90°)	6:33 pm ← (270°)
▼ 25	6:28 am → (90°)	6:32 pm ← (269°)
▼ 26	6:29 am → (91°)	6:31 pm ← (269°)
▼ 27	6:30 am → (91°)	6:29 pm ← (269°)
▼ 28	6:30 am → (92°)	6:28 pm ← (268°)
▼ 29	6:31 am → (92°)	6:27 pm ← (268°)
▼ 30	6:31 am → (93°)	6:25 pm ← (267°)

8. Then, to find the **Day of Atonement (HOLYDAY 5)**, we count 10 days from and including **September 30** to **Wednesday, October 9**.

<https://www.timeanddate.com/calendar/?year=2019>

July							August							September						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28	29	30	31	29	30					
2:●	9:●	16:○	24:●	31:●			7:●	15:○	23:●	30:●				5:●	14:○	21:●	28:●			

October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5					1	2	1	2	3	4	5	6	7	
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31				
5:●	13:○	21:●	27:●				4:●	12:○	19:●	26:●				4:●	12:○	18:●	26:●			

9. To find the **Feast of Tabernacles (HOLYDAY 6)** we count 5 more days to find the 15th day, which is on **Monday, October 14**.

<https://www.timeanddate.com/calendar/?year=2019>

July							August							September						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28	29	30	31	29	30					
2:●	9:●	16:○	24:●	31:●			7:●	15:○	23:●	30:●				5:●	14:○	21:●	28:●			

October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5					1	2	1	2	3	4	5	6	7	
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31				
5:●	13:○	21:●	27:●				4:●	12:○	19:●	26:●				4:●	12:○	18:●	26:●			

