

## ***Finding the Equinox and Jerusalem Time Data***

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In our article [Calendar Intercalation – When and How?](#) we showed that in order to maintain uniformity throughout the world, sundown Jerusalem time was the delineation we use to provide the timing for our default intercalation system. Finding this sundown Jerusalem time information, coupled with the timing of the Vernal Equinox of any given year will determine when to begin the new year with this default system.

### **Where Do I Go to See When the Vernal Equinox Takes Place?**

If you don't have a sundial, the precise timing is easy enough to look up on the internet or in an almanac. UTC (Coordinated Universal Time) or GMT (Greenwich Mean Time) is usually used. Some of the previously available .gov data has simply vanished, so for internet access, we recommend using:

<https://www.timeanddate.com/calendar/seasons.html?year=2000&n=110>

This listing automatically puts the equinox data in Jerusalem time, and takes into account whether or not Jerusalem is in daylight savings time. If you are using an almanac, you will need to convert the UTC or GMT data to Jerusalem timing. (After all, Jerusalem is the apple of God's eye where He chose to put His Name; not Greenwich, England.) This is done by adding 2 hours if it is standard Israel time or 3 hours if it is daylight savings time.

According to [timeanddate.com](https://www.timeanddate.com), the data for 2021 daylight savings time in Jerusalem begins on March 26, and ends on October 31. It can change from one year to the next. The data page for this information is:

<https://www.timeanddate.com/time/change/israel/jerusalem>

Once we know the day and time of the equinox in Jerusalem, then we need to know what time sundown occurs that day.

### **How Do I Find the Sunset Jerusalem Time Data?**

Sunset data for Jerusalem can be found at:

<https://www.timeanddate.com/sun/@293196>

To recap:

In order to determine the timing of the equinox, use the links shown above to determine when the equinox occurs OR if you are using an almanac that lists the time of the equinox in UTC or GMT, you will need to convert to Jerusalem time. For this conversion: if it is daylight savings time in Jerusalem, add 2 hours. If it is still standard Israel time, add 3 hours.

Then determine sunset time in Jerusalem. If the equinox occurs after sundown, it is considered to be the next day. (For instance – after sundown on Tuesday would be considered as Wednesday).

Then, per our previous article, ***Calendar Intercalation – When and How?***, three different scenarios can occur. To recap this, we will reenter this information below as well. These three scenarios are listed here, along with the way to determine the new year being spelled out for each one:

**IF** the Vernal Equinox occurs prior to the completion of the 364<sup>th</sup> day of the year, the new year cannot begin until the first weekday 4 after the equinox. (Due to the mathematical functioning of complete 7-day cycles, there is a phenomenon that is inherently embedded within this calendar. The last day of every calendar year falls on a weekday 3.) Since the 364<sup>th</sup> day of the Zadokite calendar is always a weekday 3 (Tuesday), the new year would begin the following day, which is always a weekday 4.

**IF** the equinox occurs prior to sundown Jerusalem time **ON** the weekday 4 that follows the 364<sup>th</sup> day of the old year, then that day would be the first day of the new year. This was likely the alignment that occurred in the actual week of creation to BEGIN the tracking of time.

**IF** the equinox has not yet occurred by the sundown that concludes the weekday 4 that follows the 364<sup>th</sup> day of the year, then an extra week is added to the year that is ending. (There must ALWAYS be complete weeks in a calendar year to uphold the sacred flow of sevens within any given year.) Accordingly, when the extra week is added, it will be a full 53-week year, and the first day of the new year will be the following weekday 4.

That's it folks. Remember that you only have to wade into these waters once a year. Once the proper start to the year is established, the calendar unfolds naturally, and it is smooth sailing for the next 52 weeks. It is really cut and dried. The little details are just to be sure you know the PRECISE timing to begin the year when the timing of the Vernal Equinox is borderline.

For as long as Abba deems possible, our website will continue to offer printed calendars each year. However, knowing that there may be a day when (for one reason or another) this is no longer possible, we did not want our readers to be down-stream without a paddle. So - we have done all of the research and systematically recorded the multiple streams of this data through the turn of the century in 2100. All of the information you need to generate your own calendar is provided in the appendices of our book – along with a blank calendar template that can be reproduced each year to record the new dates for the upcoming year.

All of the Zadokite and American Gregorian calendar schemas are also provided in the book, along with a list of the years that apply to each Gregorian schema. This will allow you to convert your Zadokite calendar information to a template for the Gregorian calendar year for convenient daily use. With all of this information at your fingertips, everything is in place to produce a calendar for each new year through the turn of the century in 2100.

**If you have some printed blank copies of the calendar template and our book in hand, you have absolutely all you need to make your own calendar for each year, even if we lose internet access or electrical power.** (Preprinting extra copies of the template for future use may be advisable in case our time to make copies is limited. That is the only thing you will need to reproduce for future years.)

Once you have the book, you can make your own calendars immediately instead of ordering the printed calendar if you prefer. We just want you to be able to have the option to go either route for as long as we are able to provide the printed versions, and to rest in the assurance that you will be able to carry on if or when we can't.

**Note:** The compilation of data in our Appendices entailed a huge amount of grueling work, so please respect the copyright restrictions relative to this portion of the book. It is an asset of the book that is intended for use by only those who purchase the book.

We pray you will be blessed as you work with this masterpiece of Yah's design!

Psalms 90:12

(12) So teach us to number our days, that we may apply our hearts unto wisdom.