

## **A COMPARISON OF MOLADS OF TISHRI AND REAL NEW MOONS 1**

### **FOR THE PERIOD OF 1900 - 2020 A.D.**

The present Jewish calendar for every year is determined by calculating "the Molad of Tishri" (meaning the supposed new moon conjunction of the Seventh Month) by using a set of calculations that go back to the Greek astronomer Hipparchus in the 140's B.C. Once the Molad of Tishri for a year has been established, then the day of the week for that molad is evaluated against the 4 Postponement Rules, which are designed to avoid having the autumn Holy Days fall on inconvenient days of the week, and the date of Tishri 1, the Holy Day of Trumpets, is then established. From that date the start of the year, Nisan 1, is then established, by always placing Nisan 1 exactly 177 days before Tishri 1. With this information all the other annual Feasts and Holy Days are then determined.

[If you wish to see the exact procedure, with all the calculations involved, for establishing the Jewish calendar, go to the TUTORIAL section of this directory.]

It is well-known that the Molad of Tishri is mostly quite inaccurate in determining the time of the actual new moon conjunctions, though it very occasionally does get to be within one hour of the time of the real new moon conjunction. But typically the time of the Molad of Tishri may be anything from 4 hours BEFORE the real new moon conjunction to as late as over 15 hours AFTER the real new moon conjunction. The application of the Jewish calendar Postponement Rules has nothing whatsoever to do with whether the time of the molad precedes or follows the time of the real new moon conjunction. Those rules cater exclusively to upholding certain traditions pertaining to specific days of the week. They have no foundation in astronomical requirements for a correct calendar.

The Table below presents the following information for every year in the 121-year period from 1900 to 2020 A.D.:

1. The exact time of the Molad of Tishri.
2. The date of Tishri 1 in the Jewish calendar. This date is determined after the Molad of Tishri has been evaluated against the 4 Postponement Rules of that calendar. It can be either the same day as the Molad or one day after the Molad day or two days after the Molad day.
3. The exact time of the new moon conjunction for Tishri in local Jerusalem time, which is 2 hours 21 minutes ahead of Greenwich Mean Time. This information is taken from the "Astro Calendar" feature of the ONLINE BIBLE, which is produced by Larry Pierce.
4. The date of Nisan 1 in the Jewish calendar.
5. The exact time of the new moon conjunction for Nisan in local Jerusalem time. This information is also taken from the "Astro Calendar" feature of the ONLINE BIBLE.
6. An evaluation of the Jewish calendar dates against the real new moon data.

### **THE EVALUATION OF THIS DATA**

1) All the times in the data are already presented in terms of LOCAL JERUSALEM TIME, which differs by 21 minutes from the Jerusalem "time zone" time, and by 2 hours and 21 minutes from Greenwich Mean Time.

2) For the Molad of Tishri, the times are presented in the format "hh:mm:ss" and then either as "a.m." or as "p.m.". The seconds are included here (rounded off to the nearest second) because the molad calculations produce such detailed results.

3) In the table below days are reckoned from midnight to midnight. Thus the "a.m." and "p.m." designations. This is purely for convenience and for clarity.

4) However, in evaluating this data, days are counted as starting and ending at sunset. As long as the actual new moon times for the spring are NOT in the period from 6:10 p.m. to 6:33 p.m., and for the autumn they are not in the period from 5:30 p.m. to 6:10 p.m., then it is always safe to work with 6:00 p.m. being the time of sunset at that time of year, and therefore with 6:00 p.m. having been the start of a new day.

But when the actual new moon times fall into the periods mentioned above, THEN we need to establish the REAL sunset time in Jerusalem for that particular day, to be quite certain whether a new moon conjunction was still in the last few minutes of the end of one day, or whether it only took place in the first few minutes of the next day. This borderline situation arises only very occasionally, and in those occasional cases a close examination will establish the correct day, in sunset to sunset terms, for the new moon conjunction.

For accurate sunset times for Jerusalem check the directory "JERUSALEM SUNSET TIMES".

4) Every year in the 121-year period under examination is evaluated for the following things:

A) Is THE MOLAD OF TISHRI on the new moon day, or before the new moon day, or after the new moon day?

B) Is TISHRI 1 on the new moon day, or one day after the new moon day, or two days after the new moon day?

[COMMENT: Tishri 1 is never on the day before the new moon day, even though the molad may be on the day before the new moon day. This is because the molad is very seldom more than 4 hours before the new moon time; so when the real new moon conjunction is at the start of a new day, just after sunset, then the molad is highly unlikely to be earlier than 2:00 p.m. before that same sunset, and a 12:00 noon time or later will always require a postponement to the next day. The earliest Molad of Tishri time before the actual lunar conjunction that I have come across is for 5 B.C., where the molad is October 1 at 5:56:13 a.m. and the actual lunar conjunction was on October 1 at 11:36 a.m., about 5 hours and 40 minutes after the molad time. But mostly an early molad is less than 4 hours ahead of the time of the conjunction.]

C) Is NISAN 1 on the new moon day, or before the new moon day, or one day after the new moon day, or two days after the new moon day?

D) Did THE JEWISH YEAR start in the spring, or did it start in the winter?

E) Were POSTPONEMENTS applied or were they not applied?

F) A SUMMARY STATEMENT for the year is then presented.

Now let's look at the data.

THE DATA:

**YEAR: 1900**

MOLAD OF TISHRI:

SEPTEMBER 24, at 5:00:30 a.m

TISHRI 1:

SEPTEMBER 24

ACTUAL 7TH NEW MOON:

SEPTEMBER 23, at 10:17 p.m.

NISAN 1:

MARCH 31

ACTUAL 1ST NEW MOON:

MARCH 30, at 10:52 p.m.

EVALUATION OF DATA FOR 1900:

- 1) The Molad of Tishri was over 7 hours AFTER the new moon, but still on the same day as the new moon (10:17 p.m. is part of September 24 in sunset to sunset reckoning).
- 2) Tishri 1 was ON the day of the new moon conjunction, with Tishri 1 having started about 4 hours BEFORE the conjunction even took place (Tishri 1 started around 6:00 p.m. on September 23).
- 3) Nisan 1 was also ON the actual new moon day.
- 4) This Jewish year started in the spring.
- 5) No postponements were applied for this year.
- 6) For 1900 the annual Feasts and Holy Days would have been observed based on starting both these months ON the actual days of the new moon conjunctions.

**YEAR: 1901**

MOLAD OF TISHRI:

SEPTEMBER 13, at 1:49:10 p.m.

TISHRI 1:

SEPTEMBER 14

ACTUAL 7TH NEW MOON:

SEPTEMBER 12, at 11:39 p.m.

NISAN 1:

MARCH 21

ACTUAL 1ST NEW MOON:

MARCH 21, at 3:13 p.m.

EVALUATION OF DATA FOR 1901:

- 1) The Molad of Tishri was over 14 hours AFTER the new moon, but still on the same day as the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) In 1901 the spring equinox was on March 21 at 9:45 a.m. Local Jerusalem Time, so the actual new moon conjunction occurred just over 5 hours AFTER the start of spring. However, by starting Nisan 1 at sunset on March 20, it meant that the Jewish year started just over 15 hours BEFORE the end of winter. This is a borderline situation that may require a more in-depth evaluation before a decision is reached, taking all the different options into consideration.
- 5) The Jewish calendar invoked a one day postponement, without which it would have started the year almost 40 hours before the end of winter.
- 6) For 1901 the annual Feasts and Holy Days would have been observed based IN THE SPRING ON the new moon day, and based IN THE AUTUMN on one day AFTER the new moon day.

**YEAR: 1902**

MOLAD OF TISHRI:

OCTOBER 2, at 11:21:53 a.m.

TISHRI 1:

OCTOBER 2

ACTUAL 7TH NEW MOON:

OCTOBER 1, at 7:29 p.m.

NISAN 1:

APRIL 8

ACTUAL 1ST NEW MOON:

APRIL 8, at 4:11 p.m.

EVALUATION OF DATA FOR 1902:

- 1) The Molad of Tishri was almost 14 hours after the new moon, but still on the same day.
- 2) Tishri 1 was also ON the new moon day.
- 3) Nisan 1 was also ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1902 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction.

**YEAR: 1903**

MOLAD OF TISHRI:

SEPTEMBER 21, at 8:10:33 p.m.

TISHRI 1:

SEPTEMBER 22

ACTUAL 7TH NEW MOON:

SEPTEMBER 21, at 6:51 a.m.

NISAN 1:

MARCH 29

ACTUAL 1ST NEW MOON:

MARCH 29, at 3:47 a.m.

EVALUATION OF DATA FOR 1903:

- 1) The Molad of Tishri was over 13 hours after the new moon, with the result that the Molad of Tishri was one day AFTER the new moon day.

2) Tishri 1 was also one day AFTER the new moon day.

3) Nisan 1 was ON the new moon day.

4) The year started in the spring.

5) No postponements were enacted.

6) For 1903 the annual Feasts and Holy Days would have been observed based IN THE SPRING ON the new moon day, and based IN THE AUTUMN on one day AFTER the new moon day.

**YEAR: 1904**

MOLAD OF TISHRI:

SEPTEMBER 10, at 4:59:13 a.m.

TISHRI 1:

SEPTEMBER 10

ACTUAL 7TH NEW MOON:

SEPTEMBER 9, at 11:09 p.m.

NISAN 1:

MARCH 17

ACTUAL 1ST NEW MOON:

MARCH 17, at 8:00 a.m.

EVALUATION OF DATA FOR 1904:

1) The Molad of Tishri was almost 6 hours after the new moon, but still on the same day as the new moon.

2) Tishri 1 was ON the new moon day.

3) Nisan 1 was ON the new moon day.

4) However, the year was started in the winter, before March 21. The following new moon should correctly have been used to start the year.

5) No postponements were enacted.

6) For 1904 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction. But the year really should have started with the following new moon, the first new moon in the spring.

**YEAR: 1905**

MOLAD OF TISHRI:

SEPTEMBER 29, at 2:31:57 a.m.

TISHRI 1:

SEPTEMBER 30

ACTUAL 7TH NEW MOON:

SEPTEMBER 29, at 00:19 a.m.

NISAN 1:

APRIL 6

ACTUAL 1ST NEW MOON:

APRIL 5, at 1:45 a.m.

EVALUATION OF DATA FOR 1905:

- 1) The Molad of Tishri was over 2 hours after the new moon, but still on the correct day.
- 2) Tishri 1 was on the day AFTER the new moon.
- 3) Nisan 1 was on the day AFTER the new moon.
- 4) The year was started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1905 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunction.

**YEAR: 1906**

MOLAD OF TISHRI:

SEPTEMBER 18, at 11:20:37 a.m.

TISHRI 1:

SEPTEMBER 20

ACTUAL 7TH NEW MOON:

SEPTEMBER 18, at 2:53 p.m.

NISAN 1:

MARCH 27

ACTUAL 1ST NEW MOON:

MARCH 25, at 2:15 a.m.

EVALUATION OF DATA FOR 1906:

- 1) The Molad of Tishri was over 3 hours before the new moon, but still on the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.
- 5) A two day postponement was applied to the Molad date.
- 6) For 1906 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunction.

**YEAR: 1907**

MOLAD OF TISHRI:

SEPTEMBER 7, at 8:09:17 p.m.

TISHRI 1:

SEPTEMBER 9

ACTUAL 7TH NEW MOON:

SEPTEMBER 7, at 11:23 p.m.

NISAN 1:

MARCH 16

ACTUAL 1ST NEW MOON:

MARCH 14, at 8:27 a.m.

EVALUATION OF DATA FOR 1907:

- 1) The Molad of Tishri was over 3 hours before the new moon, but still on the new moon day.



- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1907 the annual Feasts and Holy Days would all have been observed based on starting Nisan two days after the new moon day, and then starting Tishri only one day after the new moon day. On top of that the whole year should have started one new moon later, and not in the winter.

**YEAR: 1908**

**MOLAD OF TISHRI:**

SEPTEMBER 25, at 5:42:00 p.m.

**TISHRI 1:**

SEPTEMBER 26

**ACTUAL 7TH NEW MOON:**

SEPTEMBER 25, at 5:19 p.m.

**NISAN 1:**

APRIL 2

**ACTUAL 1ST NEW MOON:**

APRIL 1, at 7:25 a.m.

**EVALUATION OF DATA FOR 1908:**

- 1) The new moon on September 25 was definitely before sunset. The Molad of Tishri was only 23 minutes after the real new moon conjunction, and still on the same day as the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1908 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunction.

**YEAR: 1909**

MOLAD OF TISHRI:

SEPTEMBER 15, at 2:30:40 a.m.

TISHRI 1:

SEPTEMBER 16

ACTUAL 7TH NEW MOON:

SEPTEMBER 14, at 5:29 p.m.

NISAN 1:

MARCH 23

ACTUAL 1ST NEW MOON:

MARCH 21, at 10:33 p.m.

EVALUATION OF DATA FOR 1909:

- 1) The Molad of Tishri was 9 hours after the new moon, and one day after the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring, with the new moon having taken place about 14 hours after the spring equinox.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1909 the annual Feasts and Holy Days would have been observed based on starting Nisan one day after the new moon day, and starting Tishri two days after the new moon day.

**YEAR: 1910**

MOLAD OF TISHRI:

OCTOBER 4, at 00:03:23 a.m.

TISHRI 1:

OCTOBER 4

ACTUAL 7TH NEW MOON:

OCTOBER 3, at 10:52 a.m.

NISAN 1:

APRIL 10

ACTUAL 1ST NEW MOON:

APRIL 9, at 11:47 p.m.

EVALUATION OF DATA FOR 1910:

- 1) The Molad of Tishri was over 13 hours after the new moon, and it was also one day after the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was actually ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) ) For 1910 the annual Feasts and Holy Days would have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day.

**YEAR:        1911**

MOLAD OF TISHRI:

SEPTEMBER 23, at 8:52:03 a.m.

TISHRI 1:

SEPTEMBER 23

ACTUAL 7TH NEW MOON:

SEPTEMBER 22, at 4:57 p.m.

NISAN 1:

MARCH 30

ACTUAL 1ST NEW MOON:

MARCH 30, at 2:59 p.m.

EVALUATION OF DATA FOR 1911:

- 1) The Molad of Tishri was almost 16 hours after the new moon, and it was also one day after the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was actually ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) ) For 1911 the annual Feasts and Holy Days would have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day.

**YEAR: 1912**

MOLAD OF TISHRI:

SEPTEMBER 11, at 5:40:43 p.m.

TISHRI 1:

SEPTEMBER 12

ACTUAL 7TH NEW MOON:

SEPTEMBER 11, at 6:09 a.m.

NISAN 1:

MARCH 19

ACTUAL 1ST NEW MOON:

MARCH 19, at 0029 a.m.

EVALUATION OF DATA FOR 1912:

- 1) The Molad of Tishri was over 11 hours after the new moon, but still on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was actually ON the new moon day.
- 4) The year started in the winter, before the spring equinox.

5) A one day postponement was applied to the Molad date.

6) For 1912 the annual Feasts and Holy Days would have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day. However, the whole year should have started one new moon later, in the spring.

**YEAR: 1913**

MOLAD OF TISHRI:

SEPTEMBER 30, at 3:13:27 p.m.

TISHRI 1:

OCTOBER 2

ACTUAL 7TH NEW MOON:

SEPTEMBER 30, at 7:17 a.m.

NISAN 1:

APRIL 8

ACTUAL 1ST NEW MOON:

APRIL 6, at 8:09 p.m.

EVALUATION OF DATA FOR 1913:

1) The Molad of Tishri was almost 8 hours after the new moon, but still on the new moon day.

2) Tishri 1 was two days AFTER the new moon day.

3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the spring.

5) A two day postponement was applied to the Molad date.

6) For 1913 the annual Feasts and Holy Days would have been observed based on starting Nisan one day after the new moon day, and starting Tishri two days after the new moon day.

**YEAR: 1914**

MOLAD OF TISHRI:

SEPTEMBER 20, at 00:02:07 a.m.

TISHRI 1:

SEPTEMBER 21

ACTUAL 7TH NEW MOON:

SEPTEMBER 19, at 11:53 p.m.

NISAN 1:

MARCH 28

ACTUAL 1ST NEW MOON:

MARCH 26, at 8:30 p.m.

EVALUATION OF DATA FOR 1914:

- 1) The Molad of Tishri was only about 7 minutes after the new moon, and still on the new moon day. This is one of the closest Molad times we will find.
- 2) Tishri 1 was one day AFTER the new moon day
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1914 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunction.

**YEAR: 1915**

MOLAD OF TISHRI:

SEPTEMBER 9, at 8:50:47 a.m.

TISHRI 1:

SEPTEMBER 9

ACTUAL 7TH NEW MOON:

SEPTEMBER 9, at 1:11 p.m.

NISAN 1:

MARCH 16

ACTUAL 1ST NEW MOON:

MARCH 15, at 10:04 p.m.

EVALUATION OF DATA FOR 1915:

- 1) The Molad of Tishri was over 4 hours before the new moon, and still on the same day as the new moon.
- 2) Tishri 1 was ON new moon day.
- 3) Nisan 1 was ON new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1915 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction. But the year really should have started with the following new moon, the first new moon in the spring.

**YEAR:        1916**

MOLAD OF TISHRI:

SEPTEMBER 27, at 6:23:30 a.m.

TISHRI 1:

SEPTEMBER 28

ACTUAL 7TH NEW MOON:

SEPTEMBER 27, at 9:53 a.m.

NISAN 1:

APRIL 4

ACTUAL 1ST NEW MOON:

APRIL 2, at 6:43 p.m.

EVALUATION OF DATA FOR 1916:

- 1) The Molad of Tishri was over 3 hours before the new moon, and still on the same day as the new moon.

- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1916 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunction.

**YEAR: 1917**

**MOLAD OF TISHRI:**

SEPTEMBER 16, at 3:12:10 p.m.

**TISHRI 1:**

SEPTEMBER 17

**ACTUAL 7TH NEW MOON:**

SEPTEMBER 16, at 12:48 p.m.

**NISAN 1:**

MARCH 24

**ACTUAL 1ST NEW MOON:**

MARCH 23, at 6:27 a.m.

**EVALUATION OF DATA FOR 1917:**

- 1) The Molad of Tishri was over 2 hours after the new moon, but still on the same day as the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1917 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunction.



**YEAR: 1918**

MOLAD OF TISHRI:

SEPTEMBER 6, at 00:00:50 a.m.

TISHRI 1:

SEPTEMBER 7

ACTUAL 7TH NEW MOON:

SEPTEMBER 5, at 1:03 p.m.

NISAN 1:

MARCH 14

ACTUAL 1ST NEW MOON:

MARCH 12, at 10:14 p.m.

EVALUATION OF DATA FOR 1918:

- 1) The Molad of Tishri was almost 11 hours after the new moon, and it was on the day following the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1918 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction. But the year really should have started with the following new moon, the first new moon in the spring.

**YEAR: 1919**

MOLAD OF TISHRI:

SEPTEMBER 24, at 9:33:33 p.m.

TISHRI 1:

SEPTEMBER 25

ACTUAL 7TH NEW MOON:

SEPTEMBER 24, at 6:53 a.m.

NISAN 1:

APRIL 1

ACTUAL 1ST NEW MOON:

MARCH 31, at 11:26 p.m.

EVALUATION OF DATA FOR 1919:

- 1) The Molad of Tishri was over 14 hours after the new moon, and it was on the day following the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the day of the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1919 the annual Feasts and Holy Days would have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day.

**YEAR:        1920**

MOLAD OF TISHRI:

SEPTEMBER 13, at 6:22:13 a.m.

TISHRI 1:

SEPTEMBER 13

ACTUAL 7TH NEW MOON:

SEPTEMBER 12, at 3:12 p.m.

NISAN 1:

MARCH 20

ACTUAL 1ST NEW MOON:

MARCH 20, at 1:17 p.m.

EVALUATION OF DATA FOR 1920:

- 1) The Molad of Tishri was over 15 hours after the new moon, and it was on the day following the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the day of the new moon day.
- 4) In 1920 the spring equinox was on March 21 at 00:21 a.m. Jerusalem time. So the Jewish year which started at sunset on March 19 started in the winter.
- 5) No postponements were enacted.
- 6) For 1920 the annual Feasts and Holy Days would have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day. But the year should really have started with the following new moon, the first one in the spring.

**YEAR:        1921**

MOLAD OF TISHRI:

OCTOBER 2, at 3:54:57 a.m.

TISHRI 1:

OCTOBER 3

ACTUAL 7TH NEW MOON:

OCTOBER 1, at 2:46 p.m.

NISAN 1:

APRIL 9

ACTUAL 1ST NEW MOON:

APRIL 8, at 11:26 a.m.

EVALUATION OF DATA FOR 1921:

- 1) The Molad of Tishri was over 13 hours after the new moon, and it was on the day following the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.

6) For 1921 the annual Feasts and Holy Days would have been observed based on starting Nisan one day after the new moon day, and starting Tishri two days after the new moon day.

**YEAR: 1922**

MOLAD OF TISHRI:

SEPTEMBER 21, at 12:43:37 p.m.

TISHRI 1:

SEPTEMBER 23

ACTUAL 7TH NEW MOON:

SEPTEMBER 21, at 6:59 a.m.

NISAN 1:

MARCH 30

ACTUAL 1ST NEW MOON:

MARCH 28, at 3:24 p.m.

EVALUATION OF DATA FOR 1922:

- 1) The Molad of Tishri was over 5 hours after the new moon, but it was on the day of the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.
- 5) A two day postponement was applied to the Molad date.

6) For 1922 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunction.

**YEAR: 1923**

MOLAD OF TISHRI:

SEPTEMBER 10, at 9:32:17 p.m.

TISHRI 1:

SEPTEMBER 11

ACTUAL 7TH NEW MOON:

SEPTEMBER 10, at 11:13 p.m.

NISAN 1:

MARCH 18

ACTUAL 1ST NEW MOON:

MARCH 17, at 3:12 p.m.

EVALUATION OF DATA FOR 1923:

- 1) The Molad of Tishri was one and one half hours before the new moon, and it was on the day of the new moon.
- 2) Tishri 1 was ON the day of the new moon.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1923 the annual Feasts and Holy Days would have been observed based on starting Nisan one day after the new moon day, and starting Tishri on the new moon day. But the year should really have started with the following new moon, the first one in the spring.

**YEAR:        1924**

MOLAD OF TISHRI:

SEPTEMBER 28, at 7:05:00 p.m.

TISHRI 1:

SEPTEMBER 29

ACTUAL 7TH NEW MOON:

SEPTEMBER 28, at 10:35 p.m.

NISAN 1:

APRIL 5

ACTUAL 1ST NEW MOON:

APRIL 4, at 9:39 a.m.

EVALUATION OF DATA FOR 1924:

- 1) The Molad of Tishri was over 3 hours before the new moon, and it was on the day of the new moon.
- 2) Tishri 1 was ON the day of the new moon.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1924 the annual Feasts and Holy Days would have been observed based on starting Nisan one day after the new moon day, and starting Tishri on the new moon day.

**YEAR:           1925**

MOLAD OF TISHRI:

SEPTEMBER 18, at 3:53:40 a.m.

TISHRI 1:

SEPTEMBER 19

ACTUAL 7TH NEW MOON:

SEPTEMBER 18, at 6:33 a.m.

NISAN 1:

MARCH 26

ACTUAL 1ST NEW MOON:

MARCH 24, at 4:25 p.m.

EVALUATION OF DATA FOR 1925:

- 1) The Molad of Tishri was over 2 hours before the new moon, but still on the same day as the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1925 the annual Feasts and Holy Days would have been observed based on starting Nisan two days after the new moon day, and starting Tishri one day after the new moon day.

**YEAR: 1926**

MOLAD OF TISHRI:

SEPTEMBER 7, at 12:42:20 p.m.

TISHRI 1:

SEPTEMBER 9

ACTUAL 7TH NEW MOON:

SEPTEMBER 7, at 8:05 a.m.

NISAN 1:

MARCH 16

ACTUAL 1ST NEW MOON:

MARCH 14, at 5:42 a.m.

EVALUATION OF DATA FOR 1926:

1) The Molad of Tishri was over 4 hours after the new moon, but it was on the day of the new moon.

2) Tishri 1 was two days AFTER the new moon day.

3) Nisan 1 was two days AFTER the new moon day.

4) The year started in the winter.

5) A two day postponement was applied to the Molad date.

6) For 1926 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1927**

MOLAD OF TISHRI:

SEPTEMBER 26, at 10:15:03 a.m.

TISHRI 1:

SEPTEMBER 27

ACTUAL 7TH NEW MOON:

SEPTEMBER 26, at 00:31 a.m.

NISAN 1:

APRIL 3

ACTUAL 1ST NEW MOON:

APRIL 2, at 6:46 a.m.

EVALUATION OF DATA FOR 1927:

- 1) The Molad of Tishri was almost 10 hours after the new moon, but still on the same day as the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1927 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1928**

MOLAD OF TISHRI:

SEPTEMBER 14, at 7:03:43 p.m.

TISHRI 1:

SEPTEMBER 15

ACTUAL 7TH NEW MOON:

SEPTEMBER 14, at 3:40 a.m.

NISAN 1:

MARCH 22



ACTUAL 1ST NEW MOON:

MARCH 21, at 10:51 p.m.

EVALUATION OF DATA FOR 1928:

- 1) The Molad of Tishri was over 15 hours after the new moon, and it was on the day following the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1928 the annual Feasts and Holy Days would have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day.

**YEAR: 1929**

MOLAD OF TISHRI:

OCTOBER 3, at 4:36:27 p.m.

TISHRI 1:

OCTOBER 5

ACTUAL 7TH NEW MOON:

OCTOBER 3, at 00:39 a.m.

NISAN 1:

APRIL 11

ACTUAL 1ST NEW MOON:

APRIL 9, at 10:54 p.m.

EVALUATION OF DATA FOR 1929:

- 1) The Molad of Tishri was almost 16 hours after the new moon, and it was on the day of the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the spring.

5) A two day postponement was applied to the Molad date.

6) For 1929 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction.

**YEAR: 1930**

MOLAD OF TISHRI:

SEPTEMBER 23, at 1:25:07 a.m.

TISHRI 1:

SEPTEMBER 23

ACTUAL 7TH NEW MOON:

SEPTEMBER 22, at 2:02 p.m.

NISAN 1:

MARCH 30

ACTUAL 1ST NEW MOON:

MARCH 30, at 8:08 a.m.

EVALUATION OF DATA FOR 1930:

1) The Molad of Tishri was over 11 hours after the new moon, and it was on the day after the new moon.

2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was ON the new moon day.

4) The year started in the spring.

5) No postponements were enacted.

6) For 1930 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon conjunction.

**YEAR: 1931**

MOLAD OF TISHRI:

SEPTEMBER 12, at 10:13:47 a.m.

TISHRI 1:

SEPTEMBER 12

ACTUAL 7TH NEW MOON:

SEPTEMBER 12, at 6:46 a.m.

NISAN 1:

MARCH 19

ACTUAL 1ST NEW MOON:

MARCH 19, at 10:11 a.m.

EVALUATION OF DATA FOR 1931:

- 1) The Molad of Tishri was over 3 hours after the new moon, but still on the same day.
- 2) Tishri 1 was also ON the new moon day.
- 3) Nisan 1 was also ON the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1931 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1932**

MOLAD OF TISHRI:

SEPTEMBER 30, at 7:46:30 a.m.

TISHRI 1:

OCTOBER 1

ACTUAL 7TH NEW MOON:

SEPTEMBER 30, at 7:49 a.m.

NISAN 1:

APRIL 7

ACTUAL 1ST NEW MOON:

APRIL 6, at 3:43 a.m.

EVALUATION OF DATA FOR 1932:

- 1) The Molad of Tishri was within 3 minutes of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1932 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1933**

MOLAD OF TISHRI:

SEPTEMBER 19, at 4:35:10 p.m.

TISHRI 1:

SEPTEMBER 21

ACTUAL 7TH NEW MOON:

SEPTEMBER 19, at 8:40 p.m.

NISAN 1:

MARCH 28

ACTUAL 1ST NEW MOON:

MARCH 26, at 5:43 a.m.

EVALUATION OF DATA FOR 1933:

- 1) The Molad of Tishri was over 4 hours before the new moon, and it was also on the day BEFORE the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was two days AFTER the new moon day.

4) The year started in the spring.

5) A two day postponement was applied to the Molad date.

6) For 1933 the annual Feasts and Holy Days would all have been observed based on starting Nisan two days after the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1934**

MOLAD OF TISHRI:

SEPTEMBER 9, at 1:23:50 a.m.

TISHRI 1:

SEPTEMBER 10

ACTUAL 7TH NEW MOON:

SEPTEMBER 9, at 2:39 a.m.

NISAN 1:

MARCH 16

ACTUAL 1ST NEW MOON:

MARCH 15, at 2:51 a.m.

EVALUATION OF DATA FOR 1934:

1) The Molad of Tishri was just over an hour before the new moon.

2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the winter.

5) A one day postponement was applied to the Molad date.

6) For 1934 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1935**

MOLAD OF TISHRI:

SEPTEMBER 27, at 10:56:33 p.m.

TISHRI 1:

SEPTEMBER 28

ACTUAL 7TH NEW MOON:

SEPTEMBER 27, at 7:50 p.m.

NISAN 1:

APRIL 4

ACTUAL 1ST NEW MOON:

APRIL 3, at 2:32 p.m.

EVALUATION OF DATA FOR 1935:

- 1) The Molad of Tishri was about 3 hours after the new moon, but still on the same day.
- 2) Tishri 1 was ON the day of the new moon.
- 3) Nisan 1 was on the day AFTER the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1935 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon day, and starting Tishri on the new moon day.

**YEAR: 1936**

MOLAD OF TISHRI:

SEPTEMBER 16, at 7:45:13 a.m.

TISHRI 1:

SEPTEMBER 17

ACTUAL 7TH NEW MOON:

SEPTEMBER 15, at 8:02 p.m.

NISAN 1:

MARCH 24

ACTUAL 1ST NEW MOON:

MARCH 23, at 6:34 a.m.

EVALUATION OF DATA FOR 1936:

- 1) The Molad of Tishri was over 11 hours after the new moon, but still on the same day.
- 2) Tishri 1 was on the day AFTER the new moon day.
- 3) Nisan 1 was on the day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1936 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1937**

MOLAD OF TISHRI:

SEPTEMBER 5, at 4:33:53 p.m.

TISHRI 1:

SEPTEMBER 6

ACTUAL 7TH NEW MOON:

SEPTEMBER 5, at 1:13 a.m.

NISAN 1:

MARCH 13

ACTUAL 1ST NEW MOON:

MARCH 12, at 9:52 p.m.

EVALUATION OF DATA FOR 1937:

- 1) The Molad of Tishri was over 15 hours after the new moon, but still on the same day.
- 2) Tishri 1 was on the day AFTER the new moon day.

3) Nisan 1 was ON the new moon day.

4) The year started in the winter.

5) A one day postponement was applied to the Molad date.

6) For 1937 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day. But the year really should have started with the following new moon, the first new moon in the spring.

**YEAR: 1938**

MOLAD OF TISHRI:

SEPTEMBER 24, at 2:06:37 p.m.

TISHRI 1:

SEPTEMBER 26

ACTUAL 7TH NEW MOON:

SEPTEMBER 23, at 10:53 p.m.

NISAN 1:

APRIL 2

ACTUAL 1ST NEW MOON:

MARCH 31, at 9:13 p.m.

EVALUATION OF DATA FOR 1938:

1) The Molad of Tishri was over 15 hours after the new moon, but still on the new moon day.

2) Tishri 1 was two days AFTER the new moon day.

3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the spring.

5) A two day postponement was applied to the Molad date.

6) For 1938 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction.

**YEAR: 1939**



MOLAD OF TISHRI:

SEPTEMBER 13, at 10:55:17 p.m.

TISHRI 1:

SEPTEMBER 14

ACTUAL 7TH NEW MOON:

SEPTEMBER 13, at 1:42 p.m.

NISAN 1:

MARCH 21

ACTUAL 1ST NEW MOON:

MARCH 21, at 4:10 a.m.

EVALUATION OF DATA FOR 1939:

- 1) The Molad of Tishri was over 9 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1939 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the new moon day, and starting Tishri one day after the new moon day.

COMMENT: In 1939 the spring equinox was on March 21 at 2:50 p.m. local Jerusalem time. This was over 10 hours AFTER the new moon conjunction. Also, March 21 would have started at about 6:00 p.m. on March 20, or almost 21 hours before the end of winter. So the new moon on M arch 21 was still in the winter, and March 21 itself also started in the winter. For the year 1939 the following new moon should really have been chosen as the start of the year.

**YEAR: 1940**

MOLAD OF TISHRI:

OCTOBER 1, at 8:28:00 p.m.

TISHRI 1:

OCTOBER 3

ACTUAL 7TH NEW MOON:

OCTOBER 1, at 3:01 p.m.

NISAN 1:

APRIL 9

ACTUAL 1ST NEW MOON:

APRIL 7, at 10:39 p.m.

EVALUATION OF DATA FOR 1940:

- 1) The Molad of Tishri was over 5 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1940 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction.

**YEAR: 1941**

MOLAD OF TISHRI:

SEPTEMBER 21, at 5:16:40 a.m.

TISHRI 1:

SEPTEMBER 22

ACTUAL 7TH NEW MOON:

SEPTEMBER 21, at 6:58 a.m.

NISAN 1:

MARCH 29

ACTUAL 1ST NEW MOON:

MARCH 27, at 10:36 p.m.

EVALUATION OF DATA FOR 1941:

- 1) The Molad of Tishri was less than 2 hours before the new moon, but still on the same day.
- 2) Tishri 1 was on the day AFTER the new moon day.
- 3) Nisan 1 was on the day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1941 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1942**

**MOLAD OF TISHRI:**

SEPTEMBER 10, at 2:05:20 p.m.

**TISHRI 1:**

SEPTEMBER 12

**ACTUAL 7TH NEW MOON:**

SEPTEMBER 10, at 6:11 p.m.

**NISAN 1:**

MARCH 19

**ACTUAL 1ST NEW MOON:**

MARCH 17, at 2:13 a.m.

**EVALUATION OF DATA FOR 1942:**

**THIS IS THE CLOSEST TO A REAL BORDERLINE CASE WE ARE LIKELY TO ENCOUNTER!**

On September 10 in 1942 sunset at Jerusalem (35.2 degrees East and 31.8 degrees North) was at 5:53 p.m. time zone time, which is equal to 6:14 p.m. (i.e. 5:53 plus 21 minutes) Local Jerusalem Time. So on September 10 in 1942 the lunar conjunction occurred about 3 minutes BEFORE sunset.

- 1) The Molad of Tishri was over 4 hours before the new moon, but it was still (just barely) on the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.

4) The year started in the winter.

5) A two day postponement was applied to the Molad date.

6) For 1942 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunctions. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1943**

MOLAD OF TISHRI:

SEPTEMBER 29, at 11:38:03 a.m.

TISHRI 1:

SEPTEMBER 30

ACTUAL 7TH NEW MOON:

SEPTEMBER 29, at 1:48 p.m.

NISAN 1:

APRIL 6

ACTUAL 1ST NEW MOON:

APRIL 5, at 00:16 a.m.

EVALUATION OF DATA FOR 1943:

1) The Molad of Tishri was over 2 hours before the new moon and it was on the new moon day.

2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1943 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1944**

MOLAD OF TISHRI:

SEPTEMBER 17, at 8:26:43 p.m.

TISHRI 1:

SEPTEMBER 18

ACTUAL 7TH NEW MOON:

SEPTEMBER 17, at 2:58 p.m.

NISAN 1:

MARCH 25

ACTUAL 1ST NEW MOON:

MARCH 24, at 1:58 p.m.

EVALUATION OF DATA FOR 1944:

- 1) The Molad of Tishri was over 5 hours after the new moon and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1944 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1945**

MOLAD OF TISHRI:

SEPTEMBER 7, at 5:15:23 a.m.

TISHRI 1:

SEPTEMBER 8

ACTUAL 7TH NEW MOON:

SEPTEMBER 6, at 4:04 p.m.

NISAN 1:

MARCH 15

ACTUAL 1ST NEW MOON:

MARCH 14, at 6:12 a.m.

EVALUATION OF DATA FOR 1945:

- 1) The Molad of Tishri was over 13 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1945 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR:        1946**

MOLAD OF TISHRI:

SEPTEMBER 26, at 2:48:07 a.m.

TISHRI 1:

SEPTEMBER 26

ACTUAL 7TH NEW MOON:

SEPTEMBER 25, at 11:05 a.m.

NISAN 1:

APRIL 2

ACTUAL 1ST NEW MOON:

APRIL 2, at 6:59 a.m.

EVALUATION OF DATA FOR 1946:

- 1) The Molad of Tishri was over 15 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.

4) The year started in the spring.

5) No postponements were enacted.

6) For 1946 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1947**

MOLAD OF TISHRI:

SEPTEMBER 15, at 11:36:47 a.m.

TISHRI 1:

SEPTEMBER 15

ACTUAL 7TH NEW MOON:

SEPTEMBER 14, at 9:48 p.m.

NISAN 1:

MARCH 22

ACTUAL 1ST NEW MOON:

MARCH 22, at 6:55 p.m.

EVALUATION OF DATA FOR 1947:

1) The Molad of Tishri was over 13 hours after the new moon, but still on the day of the new moon.

2) Tishri 1 was ON the new moon day.

3) Nisan 1 was one day BEFORE the new moon day.

4) The year started in the spring.

5) No postponements were enacted.

6) For 1947 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day before the new moon conjunction and starting Tishri one day of the new moon conjunction.

**YEAR: 1948**

MOLAD OF TISHRI:

OCTOBER 3, at 9:03:57 a.m.

TISHRI 1:

OCTOBER 4

ACTUAL 7TH NEW MOON:

OCTOBER 2, at 10:02 p.m.

NISAN 1:

APRIL 10

ACTUAL 1ST NEW MOON:

APRIL 9, at 3:37 p.m.

EVALUATION OF DATA FOR 1948:

- 1) The Molad of Tishri was over 11 hours after the new moon, but it was still on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1948 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR:        1949**

MOLAD OF TISHRI:

SEPTEMBER 22, at 5:58:10 p.m.

TISHRI 1:

SEPTEMBER 24

ACTUAL 7TH NEW MOON:

SEPTEMBER 22, at 2:41 p.m.

NISAN 1:

MARCH 31



ACTUAL 1ST NEW MOON:

MARCH 29, at 5:31 p.m.

EVALUATION OF DATA FOR 1949:

On September 22 sunset in Jerusalem is at 5:56 p.m. This means that the molad was about 2 minutes after sunset, and therefore part of September 23.

- 1) The Molad of Tishri was over 3 hours after the new moon, and just barely on the day after the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.
- 5) A two day postponement was applied to the Molad date, because the Jewish calendar counts days starting at 6:00 p.m., but in practice this amounted to only a one day postponement because September 22 had in fact concluded about 2 minutes before the time of the molad.
- 6) For 1949 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunctions.

**YEAR:        1950**

MOLAD OF TISHRI:

SEPTEMBER 12, at 2:46:50 a.m.

TISHRI 1:

SEPTEMBER 12

ACTUAL 7TH NEW MOON:

SEPTEMBER 12, at 5:48 a.m.

NISAN 1:

MARCH 19

ACTUAL 1ST NEW MOON:

MARCH 18, at 5:42 p.m.

EVALUATION OF DATA FOR 1950:

- 1) The Molad of Tishri was 3 hours before the new moon, and it was on the new moon day.

- 2) Tishri 1 was ON the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1950 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri on the day of the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR:        1951**

MOLAD OF TISHRI:

OCTOBER 1, at 00:19:33 a.m.

TISHRI 1:

OCTOBER 1

ACTUAL 7TH NEW MOON:

OCTOBER 1, at 4:15 a.m.

NISAN 1:

APRIL 7

ACTUAL 1ST NEW MOON:

APRIL 6, at 1:14 p.m.

EVALUATION OF DATA FOR 1951:

- 1) The Molad of Tishri was almost 4 hours before the new moon, and it was on the new moon day.
- 2) Tishri 1 was ON the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1951 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri on the day of the new moon conjunction.

**YEAR: 1952**

MOLAD OF TISHRI:

SEPTEMBER 19, at 9:08:13 a.m.

TISHRI 1:

SEPTEMBER 20

ACTUAL 7TH NEW MOON:

SEPTEMBER 19, at 9:42 a.m.

NISAN 1:

MARCH 27

ACTUAL 1ST NEW MOON:

MARCH 25, at 10:35 p.m.

EVALUATION OF DATA FOR 1952:

- 1) The Molad of Tishri was within 34 minutes of the new moon, and on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1952 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1953**

MOLAD OF TISHRI:

SEPTEMBER 8, at 5:56:53 p.m.

TISHRI 1:

SEPTEMBER 10

ACTUAL 7TH NEW MOON:

SEPTEMBER 8, at 10:08 a.m.

NISAN 1:

MARCH 17

ACTUAL 1ST NEW MOON:

MARCH 15, at 1:26 p.m.

EVALUATION OF DATA FOR 1953:

On September 8 sunset in Jerusalem (local time) is at 6:15 p.m., so the molad was well before sunset.

- 1) The Molad of Tishri was over 7 hours after the new moon, and still on the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the winter.
- 5) A two day postponement was applied to the Molad date.
- 6) For 1953 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunctions. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1954**

MOLAD OF TISHRI:

SEPTEMBER 27, at 3:29:37 p.m.

TISHRI 1:

SEPTEMBER 28

ACTUAL 7TH NEW MOON:

SEPTEMBER 27, at 3:10 a.m.

NISAN 1:

APRIL 4

ACTUAL 1ST NEW MOON:

APRIL 3, at 2:46 p.m.

EVALUATION OF DATA FOR 1954:

- 1) The Molad of Tishri was over 12 hours after the new moon, but it was still on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1954 the annual Feasts and Holy Days would all have been observed based on starting both these months one day after the new moon conjunctions.

**YEAR: 1955**

**MOLAD OF TISHRI:**

SEPTEMBER 17, at 00:18:17 a.m.

**TISHRI 1:**

SEPTEMBER 17

**ACTUAL 7TH NEW MOON:**

SEPTEMBER 16, at 8:39 a.m.

**NISAN 1:**

MARCH 24

**ACTUAL 1ST NEW MOON:**

MARCH 24, at 6:03 a.m.

**EVALUATION OF DATA FOR 1955:**

- 1) The Molad of Tishri was over 15 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1955 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1956**

MOLAD OF TISHRI:

SEPTEMBER 5, at 9:06:57 a.m.

TISHRI 1:

SEPTEMBER 6

ACTUAL 7TH NEW MOON:

SEPTEMBER 4, at 9:17 p.m.

NISAN 1:

MARCH 13

ACTUAL 1ST NEW MOON:

MARCH 12, at 3:58 p.m.

EVALUATION OF DATA FOR 1956:

- 1) The Molad of Tishri was over 11 hours after the new moon, but still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1956 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1957**

MOLAD OF TISHRI:

SEPTEMBER 24, at 6:39:40 a.m.

TISHRI 1:

SEPTEMBER 26

ACTUAL 7TH NEW MOON:

SEPTEMBER 23, at 9:39 p.m.

NISAN 1:

APRIL 2

ACTUAL 1ST NEW MOON:

MARCH 31, at 11:40 a.m.

EVALUATION OF DATA FOR 1957:

- 1) The Molad of Tishri was 9 hours after the new moon, and still on the day of the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.
- 5) A two day postponement was applied to the Molad date.
- 6) For 1957 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunctions.

**YEAR: 1958**

MOLAD OF TISHRI:

SEPTEMBER 13, at 3:28:20 p.m.

TISHRI 1:

SEPTEMBER 15

ACTUAL 7TH NEW MOON:

SEPTEMBER 13, at 2:22 p.m.

NISAN 1:

MARCH 22

ACTUAL 1ST NEW MOON:

MARCH 20, at 12:10 p.m.

EVALUATION OF DATA FOR 1958:

- 1) The Molad of Tishri was about 1 hour after the new moon, and on the day of the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A two day postponement was applied to the Molad date.
- 6) For 1958 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction.

NOTE! The first new moon this year was actually still in the winter. But because of a two day postponement the year itself only started in the spring. In the next cycle, exactly 19 years later (i.e. 1977), the first new moon will again be in the winter, and then the year will also start in the winter because in 1977 no postponements are applied. So it is a totally unplanned coincidence that this year (1958) did not also start in the winter. [In 1958 the spring equinox was on March 21 at 5:27 a.m. local Jerusalem time, over 17 hours after the new moon used for the first month.]

**YEAR: 1959**

MOLAD OF TISHRI:

OCTOBER 2, at 1:01:03 p.m.

TISHRI 1:

OCTOBER 3

ACTUAL 7TH NEW MOON:

OCTOBER 2, at 2:50 p.m.

NISAN 1:

APRIL 9

ACTUAL 1ST NEW MOON:

APRIL 8, at 5:51 a.m.

EVALUATION OF DATA FOR 1959:

- 1) The Molad of Tishri was over 1 hour before the new moon, on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.



4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1959 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 1960**

MOLAD OF TISHRI:

SEPTEMBER 20, at 9:49:43 p.m.

TISHRI 1:

SEPTEMBER 22

ACTUAL 7TH NEW MOON:

SEPTEMBER 21, at 1:32 a.m.

NISAN 1:

MARCH 29

ACTUAL 1ST NEW MOON:

MARCH 27, at 9:59 a.m.

EVALUATION OF DATA FOR 1960:

1) The Molad of Tishri was over 3 hours before the new moon, and on the day of the new moon.

2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was two days AFTER the new moon day.

4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1960 the annual Feasts and Holy Days would all have been observed based on starting Nisan two days after the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1961**

MOLAD OF TISHRI:

SEPTEMBER 10, at 6:38:23 a.m.

TISHRI 1:

SEPTEMBER 11

ACTUAL 7TH NEW MOON:

SEPTEMBER 10, at 5:09 a.m.

NISAN 1:

MARCH 18

ACTUAL 1ST NEW MOON:

MARCH 16, at 9:12 p.m.

EVALUATION OF DATA FOR 1961:

- 1) The Molad of Tishri was over 1 hour after the new moon, but still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1961 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1962**

MOLAD OF TISHRI:

SEPTEMBER 29, at 4:11:07 a.m.

TISHRI 1:

SEPTEMBER 29

ACTUAL 7TH NEW MOON:

SEPTEMBER 28, at 10:00 p.m.

NISAN 1:

APRIL 5

ACTUAL 1ST NEW MOON:

APRIL 4, at 10:06 p.m.

EVALUATION OF DATA FOR 1962:

- 1) The Molad of Tishri was over 6 hours after the new moon, but still on the same day.
- 2) Tishri 1 was also ON the new moon day.
- 3) Nisan 1 was also ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1962 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction.

**YEAR: 1963**

MOLAD OF TISHRI:

SEPTEMBER 18, at 12:59:47 p.m.

TISHRI 1:

SEPTEMBER 19

ACTUAL 7TH NEW MOON:

SEPTEMBER 17, at 11:11 p.m.

NISAN 1:

MARCH 26

ACTUAL 1ST NEW MOON:

MARCH 25, at 2:30 p.m.

EVALUATION OF DATA FOR 1963:

- 1) The Molad of Tishri was over 13 hours after the new moon, but still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1963 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 1964**

MOLAD OF TISHRI:

SEPTEMBER 6, at 9:48:27 p.m.

TISHRI 1:

SEPTEMBER 7

ACTUAL 7TH NEW MOON:

SEPTEMBER 6, at 6:54 a.m.

NISAN 1:

MARCH 14

ACTUAL 1ST NEW MOON:

MARCH 14, at 4:36 a.m.

EVALUATION OF DATA FOR 1964:

1) The Molad of Tishri was almost 15 hours after the new moon, and it was on the day after the new moon.

2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was ON the new moon day.

4) The year started in the winter.

5) No postponements were enacted.

6) For 1964 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1965**

MOLAD OF TISHRI:

SEPTEMBER 25, at 7:21:10 p.m.

TISHRI 1:

SEPTEMBER 27

ACTUAL 7TH NEW MOON:

SEPTEMBER 25, at 5:38 a.m.

NISAN 1:

APRIL 3

ACTUAL 1ST NEW MOON:

APRIL 2, at 2:43 a.m.

EVALUATION OF DATA FOR 1965:

- 1) The Molad of Tishri was over 13 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1965 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction.

**YEAR:        1966**

MOLAD OF TISHRI:

SEPTEMBER 15, at 4:09:50 a.m.

TISHRI 1:

SEPTEMBER 15

ACTUAL 7TH NEW MOON:

SEPTEMBER 14, at 9:33 p.m.

NISAN 1:

MARCH 22

ACTUAL 1ST NEW MOON:

MARCH 22, at 7:08 a.m.

EVALUATION OF DATA FOR 1966:

- 1) The Molad of Tishri was over 6 hours after the new moon, but still on the same day.
- 2) Tishri 1 was also ON the new moon day.
- 3) Nisan 1 was also ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1966 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction.

**YEAR:        1967**

MOLAD OF TISHRI:

OCTOBER 4, at 1:42:33 a.m.

TISHRI 1:

OCTOBER 5

ACTUAL 7TH NEW MOON:

OCTOBER 3, at 10:44 p.m.

NISAN 1:

APRIL 11

ACTUAL 1ST NEW MOON:

APRIL 10, at 00:41 a.m.

EVALUATION OF DATA FOR 1967:

- 1) The Molad of Tishri was about 3 hours after the new moon, but still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1967 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 1968**

MOLAD OF TISHRI:

SEPTEMBER 22, at 10:31:13 a.m.

TISHRI 1:

SEPTEMBER 23

ACTUAL 7TH NEW MOON:

SEPTEMBER 22, at 1:27 p.m.

NISAN 1:

MARCH 30

ACTUAL 1ST NEW MOON:

MARCH 29, at 1:10 a.m.

EVALUATION OF DATA FOR 1968:

1) The Molad of Tishri was about 3 hours before the new moon, but still on the day of the new moon.

2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1968 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 1969**

MOLAD OF TISHRI:

SEPTEMBER 11, at 7:19:53 p.m.

TISHRI 1:

SEPTEMBER 13

ACTUAL 7TH NEW MOON:

SEPTEMBER 11, at 10:15 p.m.

NISAN 1:

MARCH 20

ACTUAL 1ST NEW MOON:

MARCH 18, at 7:14 a.m.

EVALUATION OF DATA FOR 1969:

In 1969 the spring equinox was on March 20 at 9:29 p.m. local Jerusalem time. That was the first part of March 21. So Nisan 1, which started on the evening of March 19, was in the winter. And the new moon of Nisan was over two days into winter.

- 1) The Molad of Tishri was about 3 hours before the new moon, and it was on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1969 the annual Feasts and Holy Days would all have been observed based on starting Nisan two days after the new moon conjunction and starting Tishri one day after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR:        1970**

MOLAD OF TISHRI:

SEPTEMBER 30, at 4:52:37 p.m.

TISHRI 1:

OCTOBER 1

ACTUAL 7TH NEW MOON:



SEPTEMBER 30, at 4:51 p.m.

NISAN 1:

APRIL 7

ACTUAL 1ST NEW MOON:

APRIL 6, at 6:31 a.m.

EVALUATION OF DATA FOR 1970:

- 1) The Molad of Tishri was only about one minute after the new moon, and clearly on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1970 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR:        1971**

MOLAD OF TISHRI:

SEPTEMBER 20, at 1:41:17 a.m.

TISHRI 1:

SEPTEMBER 20

ACTUAL 7TH NEW MOON:

SEPTEMBER 19, at 5:03 p.m.

NISAN 1:

MARCH 27

ACTUAL 1ST NEW MOON:

MARCH 26, at 9:44 p.m.

EVALUATION OF DATA FOR 1971:

- 1) The Molad of Tishri was over 8 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1971 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR:        1972**

**MOLAD OF TISHRI:**

SEPTEMBER 8, at 10:29:57 a.m.

**TISHRI 1:**

SEPTEMBER 9

**ACTUAL 7TH NEW MOON:**

SEPTEMBER 7, at 7:49 p.m.

**NISAN 1:**

MARCH 16

**ACTUAL 1ST NEW MOON:**

MARCH 15, at 1:55 p.m.

**EVALUATION OF DATA FOR 1972:**

- 1) The Molad of Tishri was over 14 hours after the new moon, and still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1972 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1973**

MOLAD OF TISHRI:

SEPTEMBER 27, at 8:02:40 a.m.

TISHRI 1:

SEPTEMBER 27

ACTUAL 7TH NEW MOON:

SEPTEMBER 26, at 4:13 p.m.

NISAN 1:

APRIL 3

ACTUAL 1ST NEW MOON:

APRIL 3, at 2:06 p.m.

EVALUATION OF DATA FOR 1973:

- 1) The Molad of Tishri was almost 16 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1973 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1974**

MOLAD OF TISHRI:

SEPTEMBER 16, at 4:51:20 p.m.

TISHRI 1:

SEPTEMBER 17

ACTUAL 7TH NEW MOON:

SEPTEMBER 16, at 5:05 a.m.

NISAN 1:

MARCH 24

ACTUAL 1ST NEW MOON:

MARCH 23, at 11:45 p.m.

EVALUATION OF DATA:

- 1) The Molad of Tishri was almost 12 hours after the new moon, and it was on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1974 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1975**

MOLAD OF TISHRI:

SEPTEMBER 6, at 1:40:00 a.m.

TISHRI 1:

SEPTEMBER 6

ACTUAL 7TH NEW MOON:

SEPTEMBER 5, at 9:38 p.m.

NISAN 1:

MARCH 13

ACTUAL 1ST NEW MOON:

MARCH 13, at 2:08 a.m.

EVALUATION OF DATA FOR 1975:

- 1) The Molad of Tishri was 4 hours after the new moon, but still on the same day.
- 2) Tishri 1 was also ON the new moon day.
- 3) Nisan 1 was also ON the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1975 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR:        1976**

**MOLAD OF TISHRI:**

SEPTEMBER 23, at 11:12:43 p.m.

**TISHRI 1:**

SEPTEMBER 25

**ACTUAL 7TH NEW MOON:**

SEPTEMBER 23, at 10:15 p.m.

**NISAN 1:**

APRIL 1

**ACTUAL 1ST NEW MOON:**

MARCH 30, at 7:29 p.m.

**EVALUATION OF DATA FOR 1976:**

- 1) The Molad of Tishri was nearly 1 hour after the new moon, and still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1976 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 1977**

MOLAD OF TISHRI:

SEPTEMBER 13, at 8:01:23 a.m.

TISHRI 1:

SEPTEMBER 13

ACTUAL 7TH NEW MOON:

SEPTEMBER 13, at 11:41 a.m.

NISAN 1:

MARCH 20

ACTUAL 1ST NEW MOON:

MARCH 19, 8:55 p.m.

EVALUATION OF DATA FOR 1977:

In 1977 the spring equinox was on March 20 at 8:04 p.m. local Jerusalem time, which was the first part of March 21.

- 1) The Molad of Tishri was over 3 hours before the new moon, but still on the same day.
- 2) Tishri 1 was also ON the new moon day.
- 3) Nisan 1 was also ON the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1977 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1978**

MOLAD OF TISHRI:

OCTOBER 2, at 5:34:07 a.m.

TISHRI 1:

OCTOBER 2

ACTUAL 7TH NEW MOON:

OCTOBER 2, at 8:59 a.m.

NISAN 1:

APRIL 8

ACTUAL 1ST NEW MOON:

APRIL 7, at 5:38 p.m.

EVALUATION OF DATA FOR 1978:

- 1) The Molad of Tishri was over 2 hours before the new moon, and it was on the day of the new moon.
- 2) Tishri 1 was ON the new moon day.
- 3) Nisan 1 was one day after the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1978 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the day of the new moon conjunction and starting Tishri on the day of the new moon conjunction.

**YEAR:        1979**

MOLAD OF TISHRI:

SEPTEMBER 21, at 2:22:46 p.m.

TISHRI 1:

SEPTEMBER 22

ACTUAL 7TH NEW MOON:

SEPTEMBER 21, at 12:06 p.m.

NISAN 1:

MARCH 29

ACTUAL 1ST NEW MOON:

MARCH 28, at 5:21 a.m.

EVALUATION OF DATA FOR 1979:

- 1) The Molad of Tishri was over 2 hours after the new moon, and still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1979 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 1980**

MOLAD OF TISHRI:

SEPTEMBER 9, at 11:11:27 p.m.

TISHRI 1:

SEPTEMBER 11

ACTUAL 7TH NEW MOON:

SEPTEMBER 9, at 12:21 p.m.

NISAN 1:

MARCH 18

ACTUAL 1ST NEW MOON:

MARCH 16, at 9:17 p.m.

EVALUATION OF DATA FOR 1980:

- 1) The Molad of Tishri was over 11 hours after the new moon, and it was on the day after the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.



5) A one day postponement was applied to the Molad date.

6) For 1980 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1981**

MOLAD OF TISHRI:

SEPTEMBER 28, at 8:44:10 p.m.

TISHRI 1:

SEPTEMBER 29

ACTUAL 7TH NEW MOON:

SEPTEMBER 28, at 6:28 a.m.

NISAN 1:

APRIL 5

ACTUAL 1ST NEW MOON:

APRIL 4, at 10:41 p.m.

EVALUATION OF DATA FOR 1981:

- 1) The Molad of Tishri was over 12 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1981 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1982**

MOLAD OF TISHRI:

SEPTEMBER 18, at 5:32:50 a.m.

TISHRI 1:

SEPTEMBER 18

ACTUAL 7TH NEW MOON:

SEPTEMBER 17, at 2:29 p.m.

NISAN 1:

MARCH 25

ACTUAL 1ST NEW MOON:

MARCH 25, at 12:39 p.m.

EVALUATION OF DATA FOR 1982:

- 1) The Molad of Tishri was over 15 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1982 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1983**

MOLAD OF TISHRI:

SEPTEMBER 7, at 2:21:30 p.m.

TISHRI 1:

SEPTEMBER 8

ACTUAL 7TH NEW MOON:

SEPTEMBER 7, at 4:56 a.m.

NISAN 1:

MARCH 15

ACTUAL 1ST NEW MOON:

MARCH 14, at 8:05 p.m.

EVALUATION OF DATA FOR 1983:

- 1) The Molad of Tishri was over 9 hours after the new moon, and it was on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1983 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1984**

MOLAD OF TISHRI:

SEPTEMBER 25, at 11:54:13 a.m.

TISHRI 1:

SEPTEMBER 27

ACTUAL 7TH NEW MOON:

SEPTEMBER 25, at 5:31 a.m.

NISAN 1:

APRIL 3

ACTUAL 1ST NEW MOON:

APRIL 1, at 2:30 p.m.

EVALUATION OF DATA FOR 1984:

- 1) The Molad of Tishri was over 6 hours after the new moon, and still on the day of the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.

5) A two day postponement was applied to the Molad date.

6) For 1984 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunctions.

**YEAR: 1985**

MOLAD OF TISHRI:

SEPTEMBER 14, at 8:42:53 p.m.

TISHRI 1:

SEPTEMBER 16

ACTUAL 7TH NEW MOON:

SEPTEMBER 14, at 9:39 p.m.

NISAN 1:

MARCH 23

ACTUAL 1ST NEW MOON:

MARCH 21, at 2:20 p.m.

EVALUATION OF DATA FOR 1985:

1) The Molad of Tishri was almost 1 hour before the new moon, and it was on the new moon day.

2) Tishri 1 was one day AFTER the new moon day.

3) Nisan 1 was two days AFTER the new moon day.

4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1985 the annual Feasts and Holy Days would all have been observed based on starting Nisan two days after the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1986**

MOLAD OF TISHRI:

OCTOBER 3, at 6:15:37 p.m.

TISHRI 1:

OCTOBER 4

ACTUAL 7TH NEW MOON:

OCTOBER 3, at 9:14 p.m.

NISAN 1:

APRIL 10

ACTUAL 1ST NEW MOON:

APRIL 9, at 8:30 a.m.

EVALUATION OF DATA FOR 1986:

- 1) The Molad of Tishri was 3 hours before the new moon, and it was on the day of the new moon.
- 2) Tishri 1 was ON the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1986 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day after the new moon conjunction and starting Tishri on the day of the new moon conjunction.

**YEAR: 1987**

MOLAD OF TISHRI:

SEPTEMBER 23, at 3:04:17 a.m.

TISHRI 1:

SEPTEMBER 24

ACTUAL 7TH NEW MOON:

SEPTEMBER 23, at 5:27 a.m.

NISAN 1:

MARCH 31

ACTUAL 1ST NEW MOON:

MARCH 29, at 3:08 p.m.

EVALUATION OF DATA FOR 1987:

- 1) The Molad of Tishri was over 2 hours before the new moon, and it was on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1987 the annual Feasts and Holy Days would all have been observed based on starting Nisan two days after the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 1988**

MOLAD OF TISHRI:

SEPTEMBER 11, at 11:52:57 a.m.

TISHRI 1:

SEPTEMBER 12

ACTUAL 7TH NEW MOON:

SEPTEMBER 11, at 7:09 a.m.

NISAN 1:

MARCH 19

ACTUAL 1ST NEW MOON:

MARCH 18, at 4:24 a.m.

EVALUATION OF DATA FOR 1988:

- 1) The Molad of Tishri was over 4 hours after the new moon, and still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.

6) For 1988 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1989**

MOLAD OF TISHRI:

SEPTEMBER 30, at 9:25:40 a.m.

TISHRI 1:

SEPTEMBER 30

ACTUAL 7TH NEW MOON:

SEPTEMBER 30, at 00:07 a.m.

NISAN 1:

APRIL 6

ACTUAL 1ST NEW MOON:

APRIL 6, at 5:54 a.m.

EVALUATION OF DATA FOR 1989:

- 1) The Molad of Tishri was 9 hours after the new moon, but still on the same day.
- 2) Tishri 1 was also ON the new moon day.
- 3) Nisan 1 was also ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.

6) For 1989 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction.

**YEAR: 1990**

MOLAD OF TISHRI:

SEPTEMBER 19, at 6:14:20 p.m.

TISHRI 1:

SEPTEMBER 20

ACTUAL 7TH NEW MOON:

SEPTEMBER 19, at 3:05 a.m.

NISAN 1:

MARCH 27

ACTUAL 1ST NEW MOON:

MARCH 26, at 10:09 p.m.

EVALUATION OF DATA FOR 1990:

- 1) The Molad of Tishri was over 15 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the spring.
- 5) No postponements were enacted.
- 6) For 1990 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri on the day after the new moon conjunction.

**YEAR: 1991**

MOLAD OF TISHRI:

SEPTEMBER 9, at 3:03:00 a.m.

TISHRI 1:

SEPTEMBER 9

ACTUAL 7TH NEW MOON:

SEPTEMBER 8, at 1:20 p.m.

NISAN 1:

MARCH 16

ACTUAL 1ST NEW MOON:

MARCH 16, at 10:32 a.m.



#### EVALUATION OF DATA FOR 1991:

- 1) The Molad of Tishri was almost 14 hours after the new moon, and it was on the day after the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 1991 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri on the day after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1992**

**MOLAD OF TISHRI:**

SEPTEMBER 27, at 00:35:43 a.m.

**TISHRI 1:**

SEPTEMBER 28

**ACTUAL 7TH NEW MOON:**

SEPTEMBER 26, at 1:00 p.m.

**NISAN 1:**

APRIL 4

**ACTUAL 1ST NEW MOON:**

APRIL 3, at 7:23 a.m.

#### EVALUATION OF DATA FOR 1992:

- 1) The Molad of Tishri was over 11 hours after the new moon, and it was on the day after the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.

5) A one day postponement was applied to the Molad date.

6) For 1992 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction.

**YEAR: 1993**

MOLAD OF TISHRI:

SEPTEMBER 16, at 9:24:23 a.m.

TISHRI 1:

SEPTEMBER 16

ACTUAL 7TH NEW MOON:

SEPTEMBER 16, at 5:30 a.m.

NISAN 1:

MARCH 23

ACTUAL 1ST NEW MOON:

MARCH 23, at 9:35 a.m.

EVALUATION OF DATA FOR 1993:

1) The Molad of Tishri was almost 4 hours after the new moon, but still on the same day.

2) Tishri 1 was also ON the new moon day.

3) Nisan 1 was also ON the new moon day.

4) The year started in the spring.

5) No postponements were enacted.

6) For 1993 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction.

**YEAR: 1994**

MOLAD OF TISHRI:

SEPTEMBER 5, at 6:13:03 p.m.

TISHRI 1:

SEPTEMBER 6

ACTUAL 7TH NEW MOON:

SEPTEMBER 5, at 8:52 p.m.

NISAN 1:

MARCH 13

ACTUAL 1ST NEW MOON:

MARCH 12, at 9:26 a.m.

EVALUATION OF DATA FOR 1994:

On September 5 sunset at Jerusalem was at 6:19 p.m. local Jerusalem time. So the molad was in fact still on September 5, even though the Jewish calendar calculations counted that molad as the first part of September 6. This means that the actual molad time was on the day BEFORE the new moon conjunction, since 6:13 p.m. and 8:52 p.m. are on different sides of 6:19 p.m.

1) The Molad of Tishri was less than 3 hours before the new moon, but it was in fact on the day BEFORE the new moon.

2) Tishri 1 was ON the new moon day.

3) Nisan 1 was one day AFTER the new moon day.

4) The year started in the winter.

5) No postponements were enacted; the molad was simply attributed to the wrong day.

6) For 1994 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day after the new moon conjunction and starting Tishri on the day of the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1995**

MOLAD OF TISHRI:

SEPTEMBER 24, at 3:45:47 p.m.

TISHRI 1:

SEPTEMBER 25

ACTUAL 7TH NEW MOON:

SEPTEMBER 24, at 7:14 p.m.

NISAN 1:

APRIL 1

ACTUAL 1ST NEW MOON:

MARCH 31, at 4:30 a.m.

EVALUATION OF DATA FOR 1995:

- 1) The Molad of Tishri was less than 3 hours before the new moon, and it was in fact on the day BEFORE the new moon.
- 2) Tishri 1 was ON the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date
- 6) For 1995 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day after the new moon conjunction and starting Tishri on the day of the new moon conjunction.

**YEAR: 1996**

MOLAD OF TISHRI:

SEPTEMBER 13, at 00:34:27 a.m.

TISHRI 1:

SEPTEMBER 14

ACTUAL 7TH NEW MOON:

SEPTEMBER 13, at 1:27 a.m.

NISAN 1:

MARCH 21

ACTUAL 1ST NEW MOON:

MARCH 19, at 1:06 p.m.

EVALUATION OF DATA:

In 1996 the equinox was on March 20 at 10:24 a.m. local Jerusalem time. Thus the new moon itself was still in the winter, but through a postponement the first month started at sunset on March 20, less than 8 hours after the equinox. That new moon was really too early and the year should have started with the next new moon.

- 1) The Molad of Tishri was less than 1 hour before the new moon, and it was on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year theoretically started in the spring, but the first new moon was still in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1996 the annual Feasts and Holy Days would all have been observed based on starting Nisan two days after the new moon conjunction and starting Tishri one day after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 1997**

MOLAD OF TISHRI:

OCTOBER 1, at 10:07:10 p.m.

TISHRI 1:

OCTOBER 2

ACTUAL 7TH NEW MOON:

OCTOBER 1, at 7:12 p.m.

NISAN 1:

APRIL 8

ACTUAL 1ST NEW MOON:

APRIL 7, at 1:23 p.m.

EVALUATION OF DATA FOR 1997:

- 1) The Molad of Tishri was less than 3 hours after the new moon, and it was on the new moon day.
- 2) Tishri 1 was ON the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.

5) No postponements were enacted.

6) For 1997 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day after the new moon conjunction and starting Tishri on the day of the new moon conjunction.

**YEAR: 1998**

MOLAD OF TISHRI:

SEPTEMBER 21, at 6:55:50 a.m.

TISHRI 1:

SEPTEMBER 21

ACTUAL 7TH NEW MOON:

SEPTEMBER 20, at 7:22 p.m.

NISAN 1:

MARCH 28

ACTUAL 1ST NEW MOON:

MARCH 28, at 5:34 a.m.

EVALUATION OF DATA FOR 1998:

1) The Molad of Tishri was almost 12 hours after the new moon, but still on the same day.

2) Tishri 1 was also ON the new moon day.

3) Nisan 1 was also ON the new moon day.

4) The year started in the spring.

5) No postponements were enacted.

6) For 1998 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction.

**YEAR: 1999**

MOLAD OF TISHRI:

SEPTEMBER 10, at 3:44:30 p.m.

TISHRI 1:

SEPTEMBER 11

ACTUAL 7TH NEW MOON:

SEPTEMBER 10, at 00:22 a.m.

NISAN 1:

MARCH 18

ACTUAL 1ST NEW MOON:

MARCH 17, at 9:09 p.m.

EVALUATION OF DATA FOR 1999:

- 1) The Molad of Tishri was over 15 hours after the new moon, but still on the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.
- 4) The year started in the winter.
- 5) A one day postponement was applied to the Molad date.
- 6) For 1999 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri on the day after the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR:        2000**

MOLAD OF TISHRI:

SEPTEMBER 28, at 1:17:13 p.m.

TISHRI 1:

SEPTEMBER 30

ACTUAL 7TH NEW MOON:

SEPTEMBER 27, at 10:13 p.m.

NISAN 1:

APRIL 6

ACTUAL 1ST NEW MOON:

APRIL 4, at 8:34 p.m.

EVALUATION OF DATA FOR 2000:

- 1) The Molad of Tishri was over 15 hours after the new moon, but it was still on the new moon day.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A two day postponement was applied to the Molad date.
- 6) For 2000 the annual Feasts and Holy Days would all have been observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction.

**YEAR: 2001**

MOLAD OF TISHRI:

SEPTEMBER 17, at 10:05:53 p.m.

TISHRI 1:

SEPTEMBER 18

ACTUAL 7TH NEW MOON:

SEPTEMBER 17, at 12:47 p.m.

NISAN 1:

MARCH 25

ACTUAL 1ST NEW MOON:

MARCH 25, at 3:43 a.m.

EVALUATION OF DATA FOR 2001:

- 1) The Molad of Tishri was over 9 hours after the new moon, and it was on the day after the new moon day.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was ON the new moon day.



4) The year started in the spring.

5) No postponements were enacted.

6) For 2001 the annual Feasts and Holy Days would all have been observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 2002**

MOLAD OF TISHRI:

SEPTEMBER 7, at 6:54:33 a.m.

TISHRI 1:

SEPTEMBER 7

ACTUAL 7TH NEW MOON:

SEPTEMBER 7, at 5:30 a.m.

NISAN 1:

MARCH 14

ACTUAL 1ST NEW MOON:

MARCH 14, at 4:24 a.m.

EVALUATION OF DATA FOR 2002:

1) The Molad of Tishri was over 1 hour after the new moon, but still on the same day.

2) Tishri 1 was also ON the new moon day.

3) Nisan 1 was also ON the new moon day.

4) The year started in the winter.

5) No postponements were enacted.

6) For 2002 the annual Feasts and Holy Days would all have been observed based on starting both these months ON the actual day of the new moon conjunction. But the year should really have started with the following new moon, the first one in the spring.

**YEAR: 2003**

MOLAD OF TISHRI:

SEPTEMBER 26, at 4:27:17 a.m.

TISHRI 1:

SEPTEMBER 27

ACTUAL 7TH NEW MOON:

SEPTEMBER 26, at 5:28 a.m.

NISAN 1:

APRIL 3

ACTUAL 1ST NEW MOON:

APRIL 1, at 9:40 p.m.

EVALUATION OF DATA FOR 2003:

- 1) The Molad of Tishri was 1 hour before the new moon, and still on the day of the new moon.
- 2) Tishri 1 was one day AFTER the new moon day.
- 3) Nisan 1 was one day AFTER the new moon day.
- 4) The year started in the spring.
- 5) A one day postponement was applied to the Molad date.
- 6) For 2003 the annual Feasts and Holy Days would all have been observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 2004**

MOLAD OF TISHRI:

SEPTEMBER 14, at 1:04:50 p.m.

TISHRI 1:

SEPTEMBER 16

ACTUAL 7TH NEW MOON:

SEPTEMBER 14, at 4:48 p.m.

NISAN 1:

MARCH 23

ACTUAL 1ST NEW MOON:

MARCH 21, at 1:04 p.m.

EVALUATION OF DATA FOR 2004:

- 1) The Molad of Tishri was over 3 hours before the new moon, and still on the day of the new moon.
- 2) Tishri 1 was two days AFTER the new moon day.
- 3) Nisan 1 was two days AFTER the new moon day.
- 4) The year started in the spring.
- 5) A two day postponement was applied to the Molad date.
- 6) For 2004 the annual Feasts and Holy Days would all have been observed based on starting both these months two days AFTER the actual day of the new moon conjunctions.

**YEAR: 2005**

MOLAD OF TISHRI:

OCTOBER 3, at 10:48:40 a.m.

TISHRI 1:

OCTOBER 4

ACTUAL 7TH NEW MOON:

OCTOBER 3, at 12:47 p.m.

NISAN 1:

APRIL 10

ACTUAL 1ST NEW MOON:

APRIL 8, at 10:54 p.m.

EVALUATION OF DATA FOR 2005:

- 1) The Molad of Tishri will be 2 hours before the new moon, and still on the day of the new moon.
- 2) Tishri 1 will be one day AFTER the new moon day.
- 3) Nisan 1 will one day AFTER the new moon day.
- 4) The year will start in the spring.

5) A one day postponement will be applied to the Molad date.

6) For 2005 the annual Feasts and Holy Days will all be observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 2006**

MOLAD OF TISHRI:

SEPTEMBER 22, at 7:37:20 p.m.

TISHRI 1:

SEPTEMBER 23

ACTUAL 7TH NEW MOON:

SEPTEMBER 22, at 2:05 p.m.

NISAN 1:

MARCH 30

ACTUAL 1ST NEW MOON:

MARCH 29, at 12:37 p.m.

EVALUATION OF DATA FOR 2006:

1) The Molad of Tishri will be over 5 hours after the new moon, and it will be on the day after the new moon.

2) Tishri 1 will be one day AFTER the new moon day.

3) Nisan 1 will be one day AFTER the new moon day.

4) The year will start in the spring.

5) No postponements will be enacted.

6) For 2006 the annual Feasts and Holy Days will all be observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 2007**

MOLAD OF TISHRI:

SEPTEMBER 12, at 4:26:00 a.m.

TISHRI 1:

SEPTEMBER 13

ACTUAL 7TH NEW MOON:

SEPTEMBER 11, at 3:04 p.m.

NISAN 1:

MARCH 20

ACTUAL 1ST NEW MOON:

MARCH 19, at 5:03 a.m.

EVALUATION OF DATA FOR 2007:

In 2007 the equinox will be on March 21 at 2:28 a.m. local Jerusalem time. So Nisan 1, which will start at sunset on March 19, will still be in the winter.

1) The Molad of Tishri will be over 13 hours after the new moon, and it will be on the day after the new moon day.

2) Tishri 1 will be two days AFTER the new moon day.

3) Nisan 1 will be one day AFTER the new moon day.

4) The year will start in the winter.

5) A one day postponement will be applied to the Molad date.

6) For 2007 the annual Feasts and Holy Days will all be observed based on starting Nisan one day after the new moon conjunction and starting Tishri two days after the new moon conjunction. But the year should really start with the following new moon, the first one in the spring.

**YEAR: 2008**

MOLAD OF TISHRI:

SEPTEMBER 30, at 1:58:43 a.m.

TISHRI 1:

SEPTEMBER 30

ACTUAL 7TH NEW MOON:

SEPTEMBER 29, at 10:32 a.m.

NISAN 1:

APRIL 6

ACTUAL 1ST NEW MOON:

APRIL 6, at 6:15 a.m.

EVALUATION OF DATA FOR 2008:

- 1) The Molad of Tishri will be over 15 hours after the new moon, and it will be on the day after the new moon day.
- 2) Tishri 1 will be one day AFTER the new moon day.
- 3) Nisan 1 will be ON the new moon day.
- 4) The year will start in the spring.
- 5) No postponements will be enacted.
- 6) For 2008 the annual Feasts and Holy Days will all be observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR: 2009**

MOLAD OF TISHRI:

SEPTEMBER 19, at 10:47:23 a.m.

TISHRI 1:

SEPTEMBER 19

ACTUAL 7TH NEW MOON:

SEPTEMBER 18, at 9:03 p.m.

NISAN 1:

MARCH 26

ACTUAL 1ST NEW MOON:

MARCH 26, at 6:27 p.m.

EVALUATION OF DATA FOR 2009:

On March 26 the sun will set at 6:16 p.m. local Jerusalem time (possible error of up to 2 minutes). This means that the new moon conjunction at 6:27 p.m. on March 26 will in fact be within the first hour of

MARCH 27, counting days from sunset to sunset. Nisan 1 will start at sunset on March 25, over 24 hours BEFORE the actual new moon conjunction.

- 1) The Molad of Tishri will be over 13 hours after the new moon, but it will still be on the new moon day.
- 2) Tishri 1 will be ON the new moon day.
- 3) Nisan 1 will be ONE DAY BEFORE the new moon day.
- 4) The year will start in the spring.
- 5) No postponements will be enacted.
- 6) For 2009 the annual Feasts and Holy Days will all be observed based on starting Nisan one day BEFORE the new moon conjunction and starting Tishri on the day of the new moon conjunction.

**YEAR: 2010**

MOLAD OF TISHRI:

SEPTEMBER 8, at 7:36:03 p.m.

TISHRI 1:

SEPTEMBER 9

ACTUAL 7TH NEW MOON:

SEPTEMBER 8, at 12:49 p.m.

NISAN 1:

MARCH 16

ACTUAL 1ST NEW MOON:

MARCH 15, at 11:22 p.m.

EVALUATION OF DATA FOR 2010:

- 1) The Molad of Tishri will be over 6 hours after the new moon, and it will be on the day after the new moon day.
- 2) Tishri 1 will be one day AFTER the new moon day.
- 3) Nisan 1 will be ON the new moon day.
- 4) The year will start in the WINTER.
- 5) No postponements will be enacted.

6) For 2010 the annual Feasts and Holy Days will all be observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction. But the year should really start with the following new moon, the first one in the spring.

**YEAR: 2011**

MOLAD OF TISHRI:

SEPTEMBER 27, at 5:08:47 p.m.

TISHRI 1:

SEPTEMBER 29

ACTUAL 7TH NEW MOON:

SEPTEMBER 27, at 1:28 p.m.

NISAN 1:

APRIL 5

ACTUAL 1ST NEW MOON:

APRIL 3, at 4:52 p.m.

EVALUATION OF DATA for 2011:

- 1) The Molad of Tishri will be over 3 hours after the new moon, and still on the day of the new moon.
- 2) Tishri 1 will be two days AFTER the new moon day.
- 3) Nisan 1 will be two days AFTER the new moon day.
- 4) The year will start in the spring.
- 5) A two day postponement will be applied to the Molad date.

6) For 2011 the annual Feasts and Holy Days will all be observed based on starting both these months two days AFTER the actual day of the new moon conjunctions.

**YEAR: 2012**

MOLAD OF TISHRI:

SEPTEMBER 16, at 1:57:27 a.m.

TISHRI 1:



SEPTEMBER 17

ACTUAL 7TH NEW MOON:

SEPTEMBER 16, at 4:29 a.m.

NISAN 1:

MARCH 24

ACTUAL 1ST NEW MOON:

MARCH 22, at 4:58 p.m.

EVALUATION OF DATA FOR 2012:

- 1) The Molad of Tishri will be over 2 hours before the new moon, and it will be on the day of the new moon day.
- 2) Tishri 1 will be one day AFTER the new moon day.
- 3) Nisan 1 will be two days AFTER the new moon day.
- 4) The year will start in the spring.
- 5) A one day postponement will be applied to the Molad date.
- 6) For 2012 the annual Feasts and Holy Days will all be observed based on starting Nisan two days after the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR:        2013**

MOLAD OF TISHRI:

SEPTEMBER 5, at 10:46:07 a.m.

TISHRI 1:

SEPTEMBER 5

ACTUAL 7TH NEW MOON:

SEPTEMBER 5, at 1:55 p.m.

NISAN 1:

MARCH 12

ACTUAL 1ST NEW MOON:

MARCH 11, at 10:13 p.m.

EVALUATION OF DATA FOR 2013:

- 1) The Molad of Tishri will be over 3 hours before the new moon, but still on the same day.
- 2) Tishri 1 will also be ON the new moon day.
- 3) Nisan 1 will also be ON the new moon day.
- 4) The year started in the winter.
- 5) No postponements were enacted.
- 6) For 2013 the annual Feasts and Holy Days will all be observed based on starting both these months ON the actual day of the new moon conjunction. But the year should really start with the following new moon, the first one in the spring.

**YEAR: 2014**

MOLAD OF TISHRI:

SEPTEMBER 24, at 8:18:50 a.m.

TISHRI 1:

SEPTEMBER 25

ACTUAL 7TH NEW MOON:

SEPTEMBER 24, at 8:32 a.m.

NISAN 1:

APRIL 1

ACTUAL 1ST NEW MOON:

MARCH 30, at 9:07 p.m.

EVALUATION OF DATA FOR 2014:

- 1) The Molad of Tishri will be within 14 minutes of the new moon, and it will be on the day of the new moon.
- 2) Tishri 1 will be one day AFTER the new moon day.
- 3) Nisan 1 will be one day AFTER the new moon day.
- 4) The year will start in the spring.

5) A one day postponement will be applied to the Molad date.

6) For 2014 the annual Feasts and Holy Days will all be observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 2015**

MOLAD OF TISHRI:

SEPTEMBER 13, at 5:07:30 p.m.

TISHRI 1:

SEPTEMBER 14

ACTUAL 7TH NEW MOON:

SEPTEMBER 13, at 9:01 a.m.

NISAN 1:

MARCH 21

ACTUAL 1ST NEW MOON:

MARCH 20, at 11:57 a.m.

EVALUATION OF DATA FOR 2015:

In 2015 the equinox will be on March 21 at 1:06 a.m. local Jerusalem time. That is over 13 hours AFTER the new moon, and about 7 hours AFTER the Jewish calendar will start Nisan 1 at sunset on March 20.

1) The Molad of Tishri will be over 8 hours after the new moon, and it will be on the day of the new moon.

2) Tishri 1 will be one day AFTER the new moon day.

3) Nisan 1 will be one day AFTER the new moon day.

4) The year will start in the winter.

5) A one day postponement will be applied to the Molad date.

6) For 2015 the annual Feasts and Holy Days will all be observed based on starting both these months one day AFTER the actual day of the new moon conjunctions. But the year should really start with the following new moon, the first one in the spring.

**YEAR: 2016**

MOLAD OF TISHRI:

OCTOBER 1, at 2:40:13 p.m.

TISHRI 1:

OCTOBER 3

ACTUAL 7TH NEW MOON:

OCTOBER 1, at 2:32 a.m.

NISAN 1:

APRIL 9

ACTUAL 1ST NEW MOON:

APRIL 7, at 1:44 p.m.

EVALUATION OF DATA FOR 2016:

- 1) The Molad of Tishri will be over 12 hours after the new moon, and still on the day of the new moon.
- 2) Tishri 1 will be two days AFTER the new moon day.
- 3) Nisan 1 will be two days AFTER the new moon day.
- 4) The year will start in the spring.
- 5) A two day postponement will be applied to the Molad date.
- 6) For 2016 the annual Feasts and Holy Days will all be observed based on starting both these months two days AFTER the actual day of the new moon conjunctions.

**YEAR: 2017**

MOLAD OF TISHRI:

SEPTEMBER 20, at 11:08:37 p.m.

TISHRI 1:

SEPTEMBER 21

ACTUAL 7TH NEW MOON:

SEPTEMBER 20, at 7:49 a.m.

NISAN 1:

MARCH 28

ACTUAL 1ST NEW MOON:

MARCH 28, at 5:18 a.m.

EVALUATION OF DATA FOR 2017:

- 1) The Molad of Tishri will be over 15 hours after the new moon, and it will be on the day after the new moon day.
- 2) Tishri 1 will be one day AFTER the new moon day.
- 3) Nisan 1 will be ON the new moon day.
- 4) The year will start in the spring.
- 5) No postponements will be enacted.
- 6) For 2017 the annual Feasts and Holy Days will all be observed based on starting Nisan on the day of the new moon conjunction and starting Tishri one day after the new moon conjunction.

**YEAR:        2018**

MOLAD OF TISHRI:

SEPTEMBER 10, at 8:17:33 a.m.

TISHRI 1:

SEPTEMBER 10

ACTUAL 7TH NEW MOON:

SEPTEMBER 9, at 8:21 p.m.

NISAN 1:

MARCH 17

ACTUAL 1ST NEW MOON:

MARCH 17, at 3:33 p.m.

EVALUATION OF DATA FOR 2018:

- 1) The Molad of Tishri will be almost 12 hours after the new moon, but still on the same day.
- 2) Tishri 1 will also be ON the new moon day.

3) Nisan 1 will also be ON the new moon day.

4) The year started in the winter.

5) No postponements will be enacted.

6) For 2018 the annual Feasts and Holy Days will all be observed based on starting both these months ON the actual day of the new moon conjunction. But the year should really start with the following new moon, the first one in the spring.

**YEAR: 2019**

MOLAD OF TISHRI:

SEPTEMBER 29, at 5:50:17 a.m.

TISHRI 1:

SEPTEMBER 30

ACTUAL 7TH NEW MOON:

SEPTEMBER 28, at 8:47 p.m.

NISAN 1:

APRIL 6

ACTUAL 1ST NEW MOON:

APRIL 5, at 11:11 a.m.

EVALUATION OF DATA FOR 2019:

1) The Molad of Tishri will be over 9 hours after the new moon, and it will be on the day of the new moon.

2) Tishri 1 will be one day AFTER the new moon day.

3) Nisan 1 will be one day AFTER the new moon day.

4) The year will start in the spring.

5) A one day postponement will be applied to the Molad date.

6) For 2019 the annual Feasts and Holy Days will all be observed based on starting both these months one day AFTER the actual day of the new moon conjunctions.

**YEAR: 2020**

MOLAD OF TISHRI:

SEPTEMBER 17, at 2:38:57 p.m.

TISHRI 1:

SEPTEMBER 19

ACTUAL 7TH NEW MOON:

SEPTEMBER 17, at 1:20 p.m.

NISAN 1:

MARCH 26

ACTUAL 1ST NEW MOON:

MARCH 24, at 11:48 a.m.

EVALUATION OF DATA FOR 2020:

- 1) The Molad of Tishri will be over 1 hour after the new moon, and still on the day of the new moon.
- 2) Tishri 1 will be two days AFTER the new moon day.
- 3) Nisan 1 will be two days AFTER the new moon day.
- 4) The year will start in the spring.
- 5) A two day postponement will be applied to the Molad date.
- 6) For 2020 the annual Feasts and Holy Days will all be observed based on starting both these months two days AFTER the actual day of the new moon conjunctions.

That concludes the data for this 121-year period from 1900 to 2020. For a thorough analysis of all this data, go to the directory named DETAILED ANALYSIS OF DATA.

Frank W. Nelte