WORKBOOK FOR CALCULATING THE HEBREW CALENDAR

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INTRODUCTION

As we draw closer to the end times and the Great Tribulation, we know that the world will be increasingly filled with turbulence. There may come a day when we are scattered and persecuted, and will not have access to convenient online Hebrew calendar calculators to determine the Holy Days of God. It might be wise to prepare for this possibility by learning how to calculate the calendar so we can have this skill safely tucked away in our minds.

Another reason to learn to calculate the calendar is that we should be about our Father's business, growing in grace and knowledge. The Bible tells us that we will be kings and priests in the Kingdom of God. Providing the world with the calendar of God's Holy Days will certainly be one of our duties. The newly converted people of the world will be looking to the saints for this knowledge.

The following web site for the Christian Biblical Church of God has a Hebrew calendar calculator that uses the postponements. http://www.cbcg.org/Calendar/index.html

This calculator will be useful in checking the accuracy of your work as you follow the steps in this workbook. Utilize the online calendar calculator and this workbook to calculate the calendar just before the Day of Trumpets each year. Soon, calculating the Hebrew calendar will become as familiar to you as the times tables you learned in elementary school.

STEP I SELECT A STARTING YEAR AND THE YEAR YOU WISH TO CALCULATE.

The starting year should have no postponements and be close to the year you wish to calculate so that you will not have to create a lengthy table.of years in Step II. In order to find the information for your starting year, utilize the online calendar calculator:. http://www.cbcg.org/Calendar/index.html

- 1. In the online calendar, type in a starting year several years before the one you wish to calculate and click 'Get Calendar'.
- 2. Then click 'Trumpets Declaration'. The second line will tell you if this year has any postponements. If it does, go back to the starting screen and enter another year. Do this until you find a year with no postponements. No postponements will simplify the calculations.
- 3. Once you have found a starting year with no postponements, insert the information from the Trumpets Declaration page into the box on the right below and following the example on the left. In the online calendar on the Trumpets Declaration page:
 - A. The Hebrew year number is found at the end of line 4.
 - B. The Gregorian Date of Molad is found on line 1.
 - C. Molad info is found on line 1. 1d = Sunday, 2d = Monday, 3d = Tuesday, 4d = Wednesday, 5d = Thursday, 6d = Friday, 0d = Saturday.
- 4. For the year you wish to calculate, go back to the original screen, type in the year, and enter from the Trumpets Declaration page only the Hebrew year number and corresponding Gregorian year. Everything else you are going to calculate.

EXAMPLE	YOURS
What is the starting point?	What is the starting point?
(Choose a date that has no postponements)	(Choose a date that has no postponements)
1. Hebrew Year Number: 5759	1. Hebrew Year Number:
2. Corresponding Gregorian Year: 1998-1999	2. Corresponding Gregorian Year:
3. Starting Molad occurred at: 2d 12h 1005p	3. Starting Molad occurred at:
4. Day of the week: 2d = Monday	4. Day of the week:
5. Gregorian Date of Molad: 9/21/1998	5. Gregorian Date of Molad:
What is the year you wish to calculate? 6. Hebrew Year Number: 5766	What is the year you wish to calculate? 6. Hebrew Year Number:
7. Corresponding Gregorian Year: 2005-2006	7. Corresponding Gregorian Year:

STEP II FIND THE NUMBER OF MONTHS BETWEEN THE STARTING YEAR AND THE YEAR YOU WISH TO CALCULATE

Enter in the box below on the right the Hebrew years from the starting year to the Hebrew year just BEFORE the one you wish to calculate. Divide each year by 19 and write in the remainder. The remainder will tell you whether the year is a common year with 12 months or a leap year with 13 months.

• Leap years occur in years 3, 6, 8, 11, 14, 17 and 19 of a 19-year cycle

If the year is a common year, insert 12 months. If a Leap year, insert 13 months.

Then total up the number of months between your starting year and ending year. Remember, do not include the ending year in the list. The months of the year just before the one you wish to calculate will bring you to Tishri 1 of the year you want.

EXAME	EXAMPLE		YOURS				
Months are calculated between Hebrew years:		Months are calculated between Hebrew years:					
5759 and 5766.							
YEAR	DIVIDE YEAR	LEAP	MONTHS	YEAR	DIVIDE YEAR	LEAP	MONTHS
	BY 19	YEAR?			BY 19	YEAR?	
5759	303 remainder 2	No	12				
5760	303 remainder 3	Yes	13				
5761	303 remainder 4	No	12				
5762	303 remainder 5	No	12				
5763	303 remainder 6	Yes	13				
5764	303 remainder 7	No	12				
5765	303 remainder 8	Yes	13				
TOTAL MONTHS 87			TOTAL	MONTHS			

STEP III

A.

MULTIPLY THE NUMBER OF MONTHS BY THE LENGTH OF A MOLAD

• A month or Molad is calculated as 29 days, 12 hours, and 793 parts

EXAMPLE	YOURS
793p times 87 = 68,991p	793p times
12h times $87 = 1,044h$	12h times
29d times 87 = 2,523d	29d times

B. ROUND THE SMALLER UNITS INTO THE LARGER UNITS TO FIND THE AMOUNT OF TIME BETWEEN STARTING AND ENDING MOLADS

- For example, 75 minutes would be rounded into 1 hour and 15 minutes.
- There are 1,080 parts in an hour, 24 hours in a day and 7 days in a week.

EXAMPLE	3	YOURS		
Result from Step III A: 2,523d 1,044h 68,991p		Result from Step III A:		
68,991	parts divided by 1,080 parts per hour =		parts divided by 1,080 parts per hour =	
63	hours with remainder		hours with remainder	
951	parts		parts	
1,044	hours plus		hours plus	
63	rounded hours =		rounded hours =	
1,107	hours divided by 24 hours per day =		hours divided by 24 hours per day =	
46	days with remainder		days with remainder	
3	hours		hours	
2,523	days plus		days plus	
46	rounded days =		rounded days =	
2,569	days		days	
• We do no	• We do not yet divide the days by weeks.		• We do not yet divide the days by weeks.	
We now know the amount of time between the		We now know the amount of time between the		
Starting Molad, Year 5759 1998-99		Starting Molad, Year		
and Ending Molad Year 5766 2005-06		and Ending M	Iolad, Year	
2,569d 3h 951p				

STEP IV

A ADD THE AMOUNT OF TIME BETWEEN THE MOLADS FROM STEP III B TO THE STARTING MOLAD IN STEP I TO FIND ONLY THE HOURS AND PARTS OF THE TENTATIVE ENDING MOLAD

EXAMPLE	3	YOURS	
Starting Mo	olad of Year 5759 1998-99	Starting Molad	l of Year
from Step 1	I # 3: 2d 12h 1005p	from Step I # 3	3:
to Ending I	Molad of Year 5766 2005-06	to Ending Molad of Year	
from Step 1	III B: 2,569d 3h 951p	from Step III E	3:
951	ending parts plus		ending parts plus
1,005	starting parts =		starting parts =
1,956	parts		parts

3	ending hours plus		ending hours plus
12	starting hours =		starting hours =
15	hours		hours
• We do no	t yet add the days	• We do not ye	et add the days
Results: 15	5h 1,956p	Results:	
	· -		

B. ROUND THE SMALLER UNITS INTO THE LARGER UNITS TO FIND THE TENTATIVE ENDING MOLAD WITHOUT ROUNDED DAYS

• There are 1,080 parts in an hour, 24 hours in a day and 7 days in a week

EXAMPLE		YOURS	
Result from Step IV A: 15h 1,956p		Result from Step IV A:	
Elapsed d	ays between molads from step III B:	Elapsed days between molads from step III B:	
2,569d			
1,956	parts divided by 1,080 parts per hour =	parts divided by 1,080 parts per hour =	
1	hours with remainder	hours with remainder	
876	parts	parts	
15	hours plus	hours plus	
1	rounded hours =	rounded hours =	
16	hours divided by 24 hours per day =	hours divided by 24 hours per day =	
0	days with remainder	days with remainder	
16	hours	hours	
2,569	days plus	days plus	
0	rounded days =	rounded days =	
2,569	days	days	
Tentative Ending Molad for Year 5766 2005-06 :		Tentative Ending Molad for Year:	
2,569d 16	6h 876p		

C. NOTE THE NUMBER OF DAYS FROM STEP IV B TO LATER DETERMINE THE ENDING GREGORIAN DATE

EXAMPLE	YOURS
Number of days from Step IV B - This number of	Number of days from Step IV B - This number of
days will be necessary to determine the Gregorian	days will be necessary to determine the Gregorian
date for the Year: 5766 2005-06 :	date for the Year:
2,569d	

D. ADD THE STARTING AND ENDING MOLAD DAYS ONLY TO DETERMINE THE ENDING MOLAD DAY OF THE WEEK.

- Days of the week are designated (1) Sunday, (2) Monday, (3) Tuesday, (4) Wednesday, (5) Thursday, (6) Friday, (0) Saturday
- Hours are determined from (0) hour at 6 PM the previous evening.

EXAMPLE	3	YOURS	
Let's now add the days of the starting and ending		Let's now add the days of the starting and ending	
Molads and	I determine the day of the week:	Molads and determine the day of the week:	
Starting Mo	olad of the Year: 5759 1998-99	Starting Molad of the Year	
from Step I	# 3: <u>2d</u> 12h 1,005p	from Step I #	3:
_	lad of Year 5766 2005-06	Ending Mola	
from Step I	V B: 2,569d 3h 951p	from Step IV	B:
2,569	ending days plus		ending days plus
2	starting days =		starting days =
2,571	days divided by 7 days per week =		days divided by 7 days per week =
367	weeks with remainder		weeks with remainder
2	days	days	
• The remainder of days gives us the day of the week		• The remain	der of days gives us the day of the week
for our Mo	lad.	for our Molac	d.
So the resu	lting Tentative ending Molad for the Year	So the resulti	ng Tentative ending Molad for the Year
5766 2005-	06		
with ending days taken from Step IV D and ending		with ending d	lays taken from Step IV D and ending
hours and parts taken from Step IV B is:		hours and par	ts taken from Step IV B is:
2d 16h 876	бр		
That is: Monday in the 16th hour (10AM)		That is:	
and 876 parts, with 2,569 elapsed days.			

STEP V APPLY THE RULES OF POSTPONEMENT

A.

RULE 1: MOLAD ZAKEIN

When the Molad of Tishri occurs at or after noon (18 hours 0 parts) the declaration of Tishri 1 is advanced to the next day.

EXAMPLE	YOURS
Our Molad for year: 5766 2005-06	Our Molad for year:
From Step 4D: 2d 16h 876p	From Step 4D:
Our Molad occurs at 16h .	Our Molad occurs at:
So it is not	So it
a Molad Zakein	a Molad Zakein
Tishri 1 is Tentative Molad: 2d 16h 876p	Tishri 1 is Tentative Molad:

B. RULE 2: LO A DU ROSH

If the Molad of Tishri occurs on a Sunday, Wednesday, or Friday, the declaration of Tishri 1 is postponed a day. If Molad Zakein places Tishri 1 on one of these days, it is postponed a second day.

EXAMPLE	YOURS
Our Molad for year: 5766 2005-06	Our Molad for year:

From Step 4D or previous rule: 2d 16h 876p	From Step 4D or previous rule:
Our Molad occurs on: Monday (2)d	Our Molad occurs on:
So it is not	So it
a Lo A Du Rosh	a Lo A Du Rosh
Tishri 1 is Tentative Molad: 2d 16h 876p	Tishri 1 is Tentative Molad:
•	

C.

RULE 3: GATARAD

When the Molad of Tishri of a common year falls on a Tuesday at or after 9 hours 204 parts, the declaration of Tishri 1 is advanced to Wednesday. The application of Rule 2, Lo A Du Rosh advances the declaration one more day to Thursday.

Note also that this rule is not combined with Rule 1 Molad Zakein. If Molad Zakein applies to the current year, Gatarad is unnecessary. Gatarad applies only to molads between 9h 204p and 17h 1079p

- Leap years occur in years 3, 6, 8, 11, 14, 17 and 19 of a 19-year cycle
- To determine the year of the 19-year time cycle, divide the Hebrew year number by 19. See Step II.

EXAMPLE	YOURS	
Our Molad for year: 5766 2005-06	Our Molad for year:	
From Step 4D or previous rule: 2d 16h 876p	From Step 4D or previous rule`:	
Our Hebrew year is: 5766	Our Hebrew year is:	
Divided by 19 Years in cycle = 303 Remainder 9	Divided by 19 Years in cycle =	
So in the 19-year cycle it is year 9	So in the 19-year cycle it is year	
Is it a common year? Yes	Is it a common year?	
Our Molad occurs on the day: Monday (2)d	Our Molad occurs on the day:	
Does Gatarad apply? No	Does Gatarad apply?	
Our Molad occurs at hours and parts: 16h 876p	Our Molad occurs at hours and parts:	
Does Gatarad apply? Yes	Does Gatarad apply?	
Does Rule 1 Lo A Du Rosh apply? No	Does Rule 1 Lo A Du Rosh apply?	
If there are any No answers, it is not a Gatarad.	If there are any No answers, it is not a Gatarad.	
Is it a Gatarad? No	Is it a Gatarad?	
Tishri 1 is Tentative Molad: 2d 16h 876p	Tishri 1 is Tentative Molad:	

D.

RULE 4: BETUTEKAPOT

If the Molad of a common year following a leap year falls on a Monday between 15 hours 589 parts and 18th hour, Tishri 1 is postponed to Tuesday.

This rule is designed to prevent a year from having an invalid length. It prevents a leap-year from having 382 days (too few days) by postponing Tishri 1 of the non-leap year following the leap year.

The rule is applied only if the actual Molad occurs on Monday, not if it is postponed to Monday.

- Leap years occur in years 3, 6, 8, 11, 14, 17 and 19 of a 19-year cycle
- To determine the year of the 19-year time cycle, divide the year number by 19. See Step II.

EXAMPLE	YOURS
Our Molad for year: 5766 2005-06	Our Molad for year:
From Step 4D or previous rule: 2d 16h 876p	From Step 4D or previous rule:
Our Hebrew year is: 5766	Our Hebrew year is:
Divided by 19 Years in cycle = 303 Remainder 9	Divided by 19 Years in cycle =
So in the 19-year cycle it is year 9	So in the 19-year cycle it is year
Is this a common year that follows a leap year? Yes	Is this a common year that follows a leap year?
Our Molad occurs on the day: Monday (2)d	Our Molad occurs on the day:
Does Betutekapot apply? Yes	Does Betutekapot apply?
Our Molad occurs at hour: 16h	Our Molad occurs at hour:
Is this between the 15 th hour 589p and 18 th hour? Yes	Is this between the 15 th hour 589p and 18 th hour?
If there are any No answers, it is not a Betutekapot.	If there are any No answers, it is not a Betutekapot.
Is it a Betutkafot? Yes	Is it a Betutkafot?
Tishri 1 is Tentative Molad: 3d 16h 876p	Tishri 1 is Tentative Molad:
Final Results of Postponement Rules:	Final Results of Postponement Rules:
3d 16h 876p	
Rule 4 Applies	

STEP VI

A. ADD ELAPSED DAYS FROM STEP IV B TO POSTPONEMENT RULE DAYS TO FIND CORRECTED ELAPSED DAYS

EXAMPLE	YOURS
To determine the Gregorian date for Tishri 1 for the year: 5766 2005-06 1 Take the elapsed days calculated in Step IV B, 2,569 days	To determine the Gregorian date for Tishri 1 for the year: 1. Take the elapsed days calculated in Step IV B,
2. Add any additional days triggered by the postponement rules in Step V, (1)d	2. Add any additional days triggered by the postponement rules in Step V,
3. Add this number of days to the date of Tishri 1 for your known Molad from Step I # 5 to find the date of Tishri 1 for the ending year 2005-06. 9/21/1998 + 2,570 elapsed days	3. Add this number of days to the date of Tishri 1 for your known Molad. from Step I # 5 to find the date of Tishri 1 for the ending year.

B. FROM STARTING DATE IN STEP I COUNT THE ELAPSED DAYS FROM STEP VI A TO FIND END DATE OF TISHRI 1.

Utilize the Gregorian calendar generator at http://www.myfreecalendarmaker.com/ to count the number of days in each year.

In Step 1 make sure 'yearly' is selected.

In Step 2 change only the year to the year you want.

In Step 3 click the 'Get my calendar' button.

To save you from excessive counting use the following rules:

- For the first year, start counting from the day after Tishri 1 (Step I # 5) to the end of the year.
- October, November and December have 92 days altogether.
- For in-between years look at February. If February has 28 days, the year is regular and has 365 days. If February has 29 days, then the year is a leap year and has 366 days.
- For the last year, look again at February. if February has 28 days, the days from January I August 31 will be 243 days. f February has 29 days, the days from January 1 August 31 will be 244 days.

EXAMPLE			YOURS		
Gregorian	What to Calculate	Total	Gregorian	What to Calculate	Total
Year		days	Year		days
9/21/1998	Days from Tishri 1 (Step 1 #	101		Days from Tishri 1 (Step 1 #	
	5) to end of year			5) to end of year	
1999	Days in year	365		Days in year	
2000	Days in year	366		Days in year	
2001	Days in year	365		Days in year	
2002	Days in year	365		Days in year	
2003	Days in year	365		Days in year	
2004	Days in year	366		Days in year	
	Total	2293		Total	
	Subtract from elapsed days	2,570		Subtract from elapsed days	
	(Step VI A # 3)			(Step VI A # 3)	
2005	Days from beginning of year	277		Days from beginning of year	
	(Step 1 # 7) to Tishri 1			(Step 1 # 7) to Tishri 1	
Date of Tish	nri 1 for 2005-06		Date of Tis	hri 1 for	
Tuesday, O	october 4, 2005 AD				

C. CONFIRM RESULTS WITH HEBREW CALENDAR CALCULATOR

http://www.cbcg.org/Calendar/index.html

In the online calendar calculator:

Enter the year. Click 'Get Calendar'. Click 'Trumpets Declaration' Copy the information

EXAMPLE	YOURS
Year: 2005-06	Year:
Tentative Molad occurred:	Tentative Molad occurred:
Monday October 3 16h 876p	
Rule 4 applies	
so Final Molad is:	so Final Molad is:
Tuesday, Oct 4, 2005 AD	
Begins civil year 5766	Begins civil year
Trumpets to Trumpets 2005 – 2006 AD	Trumpets to Trumpets:
Year 9	Year
of the cycle	of the cycle
-	

STEP VII

FIND THE LENGTH OF THE YEAR

Now that we have found Tishri 1 for the year we wish to calculate, we must find the length of the year if we wish to construct a calendar. The following four steps will give us the length of the year.

A. ADD SHE'ERITH FROM TABLE A TO THE MOLAD TISHRI OF THE YEAR FROM STEP IV D WHERE THE POSTPONEMENTS WERE NOT YET INCLUDED.

- Adding the She'erith to the Molad of one month, gives us the Molad of the next month.
- Adding the She'erith to the Molad of Tishri of a year gives us the Molad of Tishri of the next year. etc

TABLE A

She'erith of one month	1d 12h 793p
She'erith of common year	4d 8h 876p
She'erith of leap year	5d 21h 589p
She'erith of moon cycle of 19 years	2d 16h 595p

EXAMPLE		YOURS	
	Molad Tishri of yr 5766 2005-06		Molad Tishri of yr
2d 16h 876p	From Step IV D		From Step IV D
	Year 5766		Year
	Is year 9		Is year
	of a 19 year cycle		of a 19 year cycle
	It is a common year		It is a
+ 4d 8h 876p	Add She'erith of common year =		Add She'erith of
6d 24h 1,752p	Tentative Molad of year		Tentative Molad of year
	5767 2006-07		

B. ROUND THE SMALLER UNITS INTO THE LARGER UNITS TO FIND THE AMOUNT OF TIME BETWEEN THE STARTING AND ENDING MOLADS

EXAMP	LE	YOURS	
Result from Step VII A: 6d 24h 1,752p		Result from Step VII A:	
1,752	parts divided by 1,080 parts per hour =	parts divided by 1,080 parts per hour =	
1	hours with remainder	hours with remainder	
672	parts	parts	
24	hours plus	hours plus	
1	rounded hour =	rounded hour =	
25	hours divided by 24 hours per day =	hours divided by 24 hours per day =	
1	days with remainder	days with remainder	
1	hours	hours	
6	days plus	days plus	
1	rounded days =	rounded days =	
7	days divided by 7 days per week =	days divided by 7 days per week =	
1	week with remainder	week with remainder	
0	days	days	

We now know the amount of time between the	We now know the amount of time between the
Starting Molad, Year 5766 2005-06	Starting Molad, Year
and Ending Molad Year 5767 2006-07	and Ending Molad, Year
0d 1h 672p	

C.

APPLY THE POSTPONEMENTS TO THE ENDING MOLAD TISHRI FROM STEP VII B

RULE 1: MOLAD ZAKEIN

When the Molad of Tishri occurs at or after noon (18 hours 0 parts) the declaration of Tishri 1 is advanced to the next day.

EXAMPLE	YOURS
Our Molad for year: 5767 2006-07	Our Molad for year:
From Step VII B: 0d 1h 672p	From Step VII B:
Our Molad occurs at 1h.	Our Molad occurs at:
So it is not	So it
a Molad Zakein	a Molad Zakein
Tishri 1 is Tentative Molad: 0d 1h 672p	Tishri 1 is Tentative Molad:
•	

RULE 2: LO A DU ROSH

If the Molad of Tishri occurs on a Sunday, Wednesday, or Friday, the declaration of Tishri 1 is postponed a day. If Molad Zakein places Tishri 1 on one of these days, it is postponed a second day.

EXAMPLE	YOURS
Our Molad for Year 5767 2006-07	Our Molad for Year:
From Step VII B or previous rule: 0d 1h 672p	From Step VII B or previous rule:
Our Molad occurs on: Saturday (0)d	Our Molad occurs on:
So it is not	So it
a Lo A Du Rosh	a Lo A Du Rosh
Tishri 1 is Tentative Molad: 0d 1h 672p	Tishri 1 is Tentative Molad:
•	

RULE 3: GATARAD

When the Molad of Tishri of a common year falls on a Tuesday at or after 9 hours 204 parts, the declaration of Tishri 1 is advanced to Wednesday. The application of Rule 2, Lo A Du Rosh advances the declaration one more day to Thursday.

Note also that this rule is not combined with Rule 1 Molad Zakein. If Molad Zakein applies to the current year, Gatarad is unnecessary. Gatarad applies only to molads between 9h 204p and 17h 1079p

- Leap years occur in years 3, 6, 8, 11, 14, 17 and 19 of a 19-year cycle
- To determine the year of the 19-year time cycle, divide the Hebrew year number by 19. See Step II.

EXAMPLE	YOURS
Our Molad for year: 5767 2006-07	Our Molad for year:
From Step VII B or previous rule: 0d 1h 672p	From Step VII B or previous rule:

Our Hebrew year is: 5767 Our Hebrew year is: Divided by 19 Years in cycle = 303 Remainder 10 Divided by 19 Years in cycle = So in the 19-year cycle it is year 10 So in the 19-year cycle it is year Is it a common year? Yes Is it a common year? Our Molad occurs on the day: Saturday (0)d Our Molad occurs on the day: Does Gatarad apply? No Does Gatarad apply? Our Molad occurs at hours and parts: 1h 672p Our Molad occurs at hours and parts: Does Gatarad apply? No Does Gatarad apply? Does Rule 1 Lo A Du Rosh apply? No Does Rule 1 Lo A Du Rosh apply? If there are any No answers, it is not a Gatarad. If there are any No answers, it is not a Gatarad. Is it a Gatarad? No Is it a Gatarad? Tishri 1 is Tentative Molad: Tishri 1 is Tentative Molad: **0d 1h 672p**

RULE 4: BETUTEKAPOT

If the Molad of a common year following a leap year falls on a Monday between 15 hours 589 parts and 18th hour, Tishri 1 is postponed to Tuesday.

This rule is designed to prevent a year from having an invalid length. It prevents a leap-year from having 382 days (too few days) by postponing Tishri 1 of the non-leap year following the leap year.

The rule is applied only if the actual Molad occurs on Monday, not if it is postponed to Monday.

- Leap years occur in years 3, 6, 8, 11, 14, 17 and 19 of a 19-year cycle
- To determine the year of the 19-year time cycle, divide the year number by 19. See Step II.

EXAMPLE	YOURS
Our Molad for year: 5767 2006-07	Our Molad for year:
From Step VII B or previous rule: 0d 1h 672p	From Step VII B or previous rule:
Our Hebrew year is: 5767	Our Hebrew year is:
Divided by 19 Years in cycle = 303 Remainder 10	Divided by 19 Years in cycle =
So in the 19-year cycle it is year 10	So in the 19-year cycle it is year
Is this a common year that follows a leap year? No	Is this a common year that follows a leap year?
Our Molad occurs on the day: Saturday (0)d	Our Molad occurs on the day:
Does Betutekapot apply? No	Does Betutekapot apply?
Our Molad occurs at hour: 1h	Our Molad occurs at hour:
Is this between the 15 th hour 589p and 18 th hour? No	Is this between the 15 th hour 589p and 18 th hour?
If there are any No answers, it is not a Betutekapot.	If there are any No answers, it is not a Betutekapot.
Is it a Betutkafot? No	Is it a Betutkafot?
Tishri 1 is Tentative Molad: 0d 1h 672p	Tishri 1 is Tentative Molad:
Final Results of Postponements	Final Results of Postponements
0d 1h 672p	
No Rules Apply	

D.
COUNT THE NUMBER OF DAYS BETWEEN THE TWO WEEKDAYS OF THE STARTING
MOLAD (INCLUDING POSTPONEMENTS) AND ENDING MOLAD (INCLUDING
POSTPONEMENTS). THEN REFER TO TABLE B TO FIND NUMBER OF DAYS IN THE YEAR

EXAMPLE	YOURS
Between Tishri 1 in 2005-06 AD	Between Tishri 1 in
From Step V D 3d 16h 876p	From Step V D
on Tuesday (3)d	on
and Tishri 1 in 2006-07 AD	and Tishri 1 in
From Step VII C Rule 4: 0d 1h 672p	From Step VII C Rule 4:
on Saturday (0)d	on
there are 4 days	there are
in excess of full weeks.	in excess of full weeks.
Hence the common year 2005-06 AD	Hence the
According to Table B has $350 + 4 = 354$ days.	According to Table B has
It is of Type C	It is of Type
Tishri 1 in 2005-06 AD on Tuesday	Tishri 1 in
Regular 354 days	
-	

TABLE B

The Seven Types of the	Common years	
	and add the days between	the two Rosh Hashanas
TYPES	The First Day of Rosh	The Length of the
	Hashana Occurs On	Year
A	Monday	Defective 353 Days
В	Sabbath	Defective 353 Days
С	Tuesday	Regular 354 Days
D	Thursday	Regular 354 Days
Е	Monday	Excessive 355 Days
F	Thursday	Excessive 355 Days
G	Sabbath	Excessive 355 Days
The Seven Types of the	Leap Years	
• Begin with 378 days a	and add days between the	two Rosh Hashanas.
Н	Monday	Defective 383 Days
I	Thursday	Defective 383 Days
J	Sabbath	Defective 383 Days
K	Tuesday	Regular 384 Days
L	Monday	Excessive 385 Days
M	Thursday	Excessive 385 Days
N	Sabbath	Excessive 385 Days

STEP VIII

COUNT THE ELAPSED DAYS FROM VII D AS YOU DID FROM VI B TO DETERMINE THE ENDING DATE OF TISHRI 1 IN THE YEAR FOLLOWING THE ONE YOU ARE CALCULATING.

This date will begin the final month of Tishri at the end of this workbook.

Utilize the Gregorian calendar generator at http://www.myfreecalendarmaker.com/ to count the days.

In the calendar generator:

In Step 1 make sure 'yearly' is selected.

In Step 2 change only the year to the year you want.

In Step 3 click the 'Get my calendar' button.

To save you from excessive counting use the following rules:

- For the first year, start counting from the day after Tishri 1 (Step I # 5) to the end of the year.
- October, November and December have 92 days altogether.
- For the last year, look at February. If February has 28 days, the days from January I August 31 will be 243 days. If February has 29 days, the days from January 1 August 31 will be 244 days.

EXAMPLE			YOURS		
Gregorian	What to Calculate	Total	Gregorian	What to Calculate	Total
Year		days	Year		days
From VI B	Days from Tishri 1 to end of	88	From VI B	Days from Tishri 1 to end of	
10/04/2005	year			year	
	Total	88		Total	
	Subtract from total days in	354		Subtract from total days in	
	year From VII D			year From VII D	
2006	Days from beginning of year	266		Days from beginning of year	
	to Tishri 1			to Tishri 1	
Date of Tish	ri 1 for 2006-07		Date of Tish	nri 1 for	
Saturday, S	eptember 23, 2006				

STEP VIV. ORDER THE MONTHS IN THE CALENDAR ACCORDING TO THE NUMBER OF DAYS FOUND IN STEP VII C

The months are ordered according to TABLE C from the number of days found in step VII D.

EXAMPLE	YOURS
According to Step VII D and Table B, 2005-06 AD	According to Step VII D and Table B,
is a/an Regular 354 day year .	is a/an
Thus, according to Table C	Thus, according to Table C
the months are arranged according to A .	the months are arranged according to

TABLE C

Typ	es of Years,	Number of	Days and Construction of Months
A	Regular+	354 days	12 months alternately having 30 and 29 days
	Common		In "Regular" years (354 or 384 days), Heshvan has 29 and Kislev 30 days.
В	Defective	353 days	12 months alternately having 30 and 29 days except Kislev with 29 instead of
	Common		30 days
			In "Deficient" years (353 or 383 days), Heshvan and Kislev both have 29 days.
С	Excessive	355 days	12 months alternately having 30 and 29 days except Heshvan with 30 instead of
	Common	-	29 days
			In "Full" years (355 or 385 days), Heshvan and Kislev both have 30 days.
D	Regular	384 days	12 months alternately having 30 and 29 days, with an additional month of 30
	Leap		days, Adar I

			In "Regular" years (354 or 384 days), Heshvan has 29 and Kislev 30 days.
Е	Defective	383 days	12 months alternately having 30 and 29 days except Kislev with 29 days instead
	Leap		of 30, and one additional month of 30 days, Adar I
			In "Deficient" years (353 or 383 days), Heshvan and Kislev both have 29 days.
F	Excessive	385 days	12 months alternately having 30 and 29 days, except Heshvan with 30 days
	Leap		instead of 29, and one additional month, Adar I with 30 days.
			In "Full" years (355 or 385 days), Heshvan and Kislev both have 30 days.

STEP X CONSTRUCT THE RESULTING CALENDAR

RESULTING CALENDAR FOR YEAR 5766 2005-06 AD

According to Step VI B Tishri 1 begins on Tuesday, October 4, 2005 AD

	2005 AD Tishri Year 5766						2005 AD October/November						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5			4	5	6	7	8
6	7	8	9	10	11	12	9	10	11	12	13	14	15
13	14	15	16	17	18	19	16	17	18	19	20	21	22
20	21	22	23	24	25	26	23	24	25	26	27	28	29
27	28	29	30				30	31	1	2			
Tishri	has 30 d	lays					October has 31 days						
Day of	f Trumpe	ets: Tues	sday, Ti	shri 1			Day of	Trump	ets: Tue	sday, Oc	ctober 4		
Day of	f Atonen	nent: Th	ursday,	Tishri 10	0		Day of	Atonen	nent: Th	ursday,	October	13	
Feast of	of Taber	nacles: [Гuesday	, Tishri 1	15		Feast o	of Taber	nacles: [Гuesday	, Octob	er 18	
Last G	reat Day	y: Tuesd	ay, Tish	ri 22			Last G	reat Day	y: Tuesd	ay, Octo	ober 25		

	200	5 AD H	Heshvan	Year 5		2005 AD November/December							
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3					3	4	5
4	5	6	7	8	9	10	6	7	8	9	10	11	12
11	12	13	14	15	16	17	13	14	15	16	17	18	19
18	19	20	21	22	23	24	20	21	22	23	24	25	26
25	26	27	28	29			27	28	29	30	1		
Heshv	an has 2	9 days i	in this y	ear			Nover	nber has	30 days	S			

	20	05 AD	Kislev	Year 57	766		2005 AD December						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2						2	3
3	4	5	6	7	8	9	4	5	6	7	8	9	10
10	11	12	13	14	15	16	11	12	13	14	15	16	17
17	18	19	20	21	22	23	18	19	20	21	22	23	24
24	25	26	27	28	29	30	25	26	27	28	29	30	31

Kislev	has 30	days in	this year	r									
	2006 AD Tebeth Year 5766						2006 AD January						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29							29						
Tebeth	has 29	days					Decem	nber has	31 days				

	200	2006 AD January/February											
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6		30	31	1	2	3	4
7	8	9	10	11	12	13	5	6	7	8	9	10	11
14	15	16	17	18	19	20	12	13	14	15	16	17	18
21	22	23	24	25	26	27	19	20	21	22	23	24	25
28	29	30					26	27	28				
Sheba	t has 30	days					January has 31 days						
							February has 28 days in this year						

• You can look at the online calendar calculator http://www.myfreecalendarmaker.com/ to see whether February has 28 or 29 days . You can also determine whether a year is a leap year if it is divisible by 4. For example: 2006 AD is not divisible by 4, so an extra day is not added to February. It has 28 days

	200)6 AD	Adar II	Year 5'	766				2006	AD M	1 arch		
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4				1	2	3	4
5	6	7	8	9	10	11	5	6	7	8	9	10	11
12	13	14	15	16	17	18	12	13	14	15	16	17	18
19	20	21	22	23	24	25	19	20	21	22	23	24	25
26	27	28	29				26	27	28	29			
Adar I	I has 29	days											

• Adar I has 30 days It is added in leap years There **IS NO** Adar I this year.

		Ad	lar I Y	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Adar l	has 30 (days add	ed to Le	eap Year	'S	•		•					

	20	06 AD	Nisan	Year 57	66				2006 A	D Mar	ch/April		
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3					30	31	1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	

Nisan has 30 days.

Passover: Wednesday, Nisan 14

1st Day Unleavened Bread: Thursday, Nisan 15 7th Day Unleavened Bread: Wednesday, Nisan 21

March has 31 days.

Passover: Wednesday, April 12 1st Day Unleavened Bread: Thursday, April 13 7th Day Unleavened Bread: Wednesday, April 19

	2	006 AD	Iyar	Year 576	66				2006 A	AD Api	ril/May		
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1							29
2	3	4	5	6	7	8	30	1	2	3	4	5	6
9	10	11	12	13	14	15	7	8	9	10	11	12	13
16	17	18	19	20	21	22	14	15	16	17	18	19	20
23	24	25	26	27	28	29	21	22	23	24	25	26	27
Iyar h	as 29 da	ys					April l	nas 30 da	ays				

	20	06 AD	Sivan	Year 57	66				2006 A	AD Ma	y/June		
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7	28	29	30	31	1	2	3
8	9	10	11	12	13	14	4	5	6	7	8	9	10
15	16	17	18	19	20	21	11	12	13	14	15	16	17
22	23	24	25	26	27	28	18	19	20	21	22	23	24
29	30						25	26					
Siyan	hac 30 d	27/6		•			May h	ac 31 da	VC		•		•

Pentecost is counted 50 days from the Sunday during

the Feast of Unleavened Bread

Pentecost: Sunday, Sivan 8

May has 31 days

Pentecost is counted 50 days from the Sunday during

the Feast of Unleavened Bread

Pentecost: Sunday, June 4

	200	6 AD	Гаттиz	Year 5	5766				2006	AD Jui	ne/July		
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1 2 3 4								27	28	29	30	1
6	7	8	9	10	11	12	2	3	4	5	6	7	8
13	14	15	16	17	18	19	9	10	11	12	13	14	15
20	21	22	23	24	25	26	16	17	18	19	20	21	22
27	28	29					23	24	25				
Tamn	nuz has 2	29 days					June l	nas 30 da	ıys				

	2	2006 AD	Ab Y	ear 576	6				2006 A	D July	/August		
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4				26	27	28	29
5	6	7	8	9	10	11	30	31	1	2	3	4	5
12	13	14	15	16	17	18	6 7 8 9 10 11						
19	20	21	22	23	24	25	13	14	15	16	17	18	19
26	27	28	29	30			20	21	22	23	24		
Ab has	s 30 day	S					July ha	as 31 da	ys				

	20	006 AD	Elul	Year 570	56			20	06 AD	August	/Septem	ber	
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2						25	26
3	4	5	6	7	8	9	27	28	29	30	31	1	2
10	11	12	13	14	15	16	3	4	5	6	7	8	9
17	18	19	20	21	22	23	10	11	12	13	14	15	16
24	25	26	27	28	29		17	18	19	20	21	22	
Elul h	as 29 da	ys	-	•		•	Augus	t has 31	days		•		•

The month of Elul ends the Hebrew year **5766 2005-06 AD** Step 7 E told us that Tishri I for the new year, **5767 2006-07 AD** will be on **Saturday**, **September 23**, **2006**

Thus, we see that our new calendar year matches up with the old and begins Tishri on the correct day.

• If you use the online calendar calculator again to verify the holy day dates for this year, keep in mind that the Hebrew year begins in the fall and ends the following fall. Therefore, type in the current year (example 2005 AD) to find the fall holy days and the next year (example: 2006 AD) to find the spring holy days.

STEP X CONSTRUCT YOUR CALENDAR

RESULTING CALENDAR FOR YEAR:

According to Step VI B Tishri 1 begins on

		T	ishri Y	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat

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Tishri has 30 days	
Day of Trumpets: Tishri 1	Day of Trumpets:
Day of Atonement: Tishri 10	Day of Atonement:
Feast of Tabernacles: Tishri 15	Feast of Tabernacles:
Last Great Day: Tishri 22	Last Great Day

		Hes	hvan Y	<i>l</i> ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Heshv	an has	day	s in this	year									

		Ki	slev Y	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Kislev	has	days in	this yea	ır		•		•	•			•	

		Te	beth Y	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Tebeth	n has 29	days											

• You can look at the online calendar calculator http://www.myfreecalendarmaker.com/ to see whether February has 28 or 29 days . You can also determine whether a year is a leap year if it is divisible by 4. For example: 2006 AD is not divisible by 4, so an extra day is not added to February. It has 28 days

		Sh	ebat Y	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat

Shebat	has 30	days						

		Ad	lar II Y	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Adar I	II has 29	days					Februa	ry has	days t	his year			

• Adar I has 30 days It is added in leap years There Adar I this year.

		Ac	lar I Y	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Adar I	has 30	days ado	ded in L	eap Yea	rs	•		•	•	•	•		•

		Ni	san Ye	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat

Nisan has 30 days. Passover: Nisan 14

1st Day Unleavened Bread: Nisan 15 7th Day Unleavened Bread: Nisan 21

March has 31 days

Passover: 1st Day Unleavened Bread: 7th Day Unleavened Bread:

		I	yar Ye	ar									
Sun	Sun Mon Tues Wed Thurs Fri Sat						Sun	Mon	Tues	Wed	Thurs	Fri	Sat

Iyar ha	ıs 29 day	/S						

		Si	van Ye	ear									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Sivan	has 30 d	ays					May h	as 31 da	ıys				
Pented	cost is co	ounted 50	0 days f	rom the	Sunday	during	Pentec	ost is co	ounted 5	0 days f	rom the	Sunday	during
the Fe	ast of Uı	nleavene	ed Bread	[the Fea	ast of U	nleavene	ed Bread	[
Pented	cost: Sun	day, Siv	an				Pentec	ost: Sur	ıday,				

		Tan	nmuz `	Year									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Tamm	nuz has 2	9 days											

		1	Ab Yea	r									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Ab has	s 30 days	S											

		Е	lul Yea	ar									
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat

Elul has 29 days							August has 31 days						

The month of Elul ends the Hebrew year Step V!!! told us that Tishri I for the new year: will be on

Thus, we see that our new calendar year matches up with the old and begins Tishri on the correct day

• If you use the online calendar calculator again to verify the holy day dates for this year, keep in mind that the Hebrew year begins in the fall and ends the following fall. Therefore, type in the current year (example 2005 AD) to find the fall holy days and the next year (example: 2006 AD) to find the spring holy days.

Bibliography: Example is from http://www.jewfaq.org/calendr2.htm#Essentials Tables are from *The Comprehensive Hebrew Calendar* by Arthur Spier