

The Jewish Luni-Solar Calendar

	Year	Days	Variance from 365	Net Variance
	1	354	11	11
	2	354	11	22
	3	354	11	33
Intercalation	→	Add 30	<i>Ve-Adar</i>	3
	4	354	11	14
	5	354	11	25
	6	354	11	36
Intercalation	→	Add 30	<i>Ve-Adar</i>	6
	7	354	11	17
	8	354	11	28
	9	354	11	39
" "	→	Add 30	<i>Ve-Adar</i>	9
	10	354	11	20
	11	354	11	31
" "	→	Add 30	<i>Ve-Adar</i>	1
	12	354	11	12
	13	354	11	23
	14	354	11	34
" "	→	Add 30	<i>Ve-Adar</i>	4
	15	354	11	15
	16	354	11	26
	17	354	11	37
" "	→	Add 30	<i>Ve-Adar</i>	7
	18	354	11	18
	19	354	11	29
Intercalation	→	Add 30	<i>Ve-Adar</i>	-1

The above is an approximation of the Luni-Solar calendar, with intercalations every 3rd, 6th, 9th, 11th, 14th, 17th and 19th years. It is rounded to whole days and is only an illustration. As a result this example is one day out. However, at the end of the 19th year the calendars were correct to within 2¼ hours and the cycle started again.

11 days is also an approximation and, if you add one day every four years - as we do with our Gregorian Calendar, you will see that the intercalation shown at the end of the 9th year would normally happen at the end of the 8th year, when 30 days would have elapsed (and not 28). It was all dependent on the 'phasis' or first appearance of the moon. *Ve-Adar* was possibly sometimes 31 days whilst they waited for the moon to appear. This 19-year cycle is known as the **Metonic Cycle**.