

8019-YEAR PROPERTIES

33-year (solar cycle) x 27-year (Lunar cycle) x 9-year cycle of Indiction = 8019-YEARS.

It may be seen that 8019-year cycle is UNIQUE in reconstruction of 334-year cycles; as also 62-year cycle combinations, except that the middle cycle, using 62-yr, needs ONE 19-year/235 lunation cycle and make discovering 8019-year cycle, *capable to replace 7980-year Julian Cycle* to improve 'Year to Lunation ratio' from: $98699/7980 = 12.368295739348371$ to $99181/8019 = 12.368250405288$; against **Standard ratio of 12.36826641079701**.

Also, please see: http://www.brijvij.com/brij8019_in-yr.pdf; this give Mean Year: Lunation 'ratio' of 12.3682659084674.

$$\mathbf{8019\text{-years}} = [(8*334)+1+(8*334)+1+(8*334)+1]$$

$$\mathbf{8019\text{-years}} = [(43*62+1)+(43*62+19)+(43*62+1)]$$

$$\mathbf{8019\text{-years}} = [(10*400)+19+(10*400)]$$

$$\mathbf{8019\text{-years}} = 297*27 = (11*27*27)$$

$$\mathbf{8019\text{-years}} = [(211*19)+1+(211*19)], \text{ using 19-year cycle (for Sun-Earth-Moon) calculations.}$$

8019-year cycle constitute 729-cycle of 11-years; as also 471 cycles of 17-years SHORT of 12-years [i.e. ONE 11-year cycle+1-yr]. This distribution is: **8019-years** = 11-yrs*729 cycles; also **8019-years** = $[(17*235)+11]+1+[17*236]$ to moderate 'epact' arrangements.

Different values for Tropical Year, as at http://en.wikipedia.org/wiki/Tropical_year are:

- (a) Vernal equinox: $365.24237404 + 0.00000010338 \times a$ days
- (b) Northern solstice: $365.24162603 + 0.00000000650 \times a$ days
- (c) Autumn equinox: $365.24201767 - 0.00000023150 \times a$ days
- (d) Southern solstice: $365.24274049 - 0.00000012446 \times a$ days

Modern Average Mean (Atomic) Tropical Year Length = $[(365.24237404+365.24162603+ 365.24201767+ 365.24274049) \div 4] = 365.2421895575$ days. This when compared with Mean Year of $[(365+31/128) = 365.2421875$ days = $[7*(52+1/6+29/2688)]$, as I have shown in my E-mail discussions. This is deviated by ONLY 0.0000020575 day from (365+31/128) days = 365.2421875 days, to fix THIS as the value for Y_{2007} , and use the *ratio = $365.24218669781 \div 365.2421875 = 1.00000000594066368634$ * become the correction factor, to fix Y_{2007} as EPOCH markers. Please see: http://www.brijvij.com/bb_metro-contrbn.2007.pdf

(3*400)-years cycle: During my discussions, I proposed the SIMPLE div.6 plan for distribution of 71 LWks in 400-years. See: http://www.brijvij.com/bb_div.6vshexade400-yr.LWks-distr.pdf

Mean Year = $146097/400 = 365.2425$ days [in 20871 weeks = $7*(52+71/400)$].

Arithmetically, minor difference in Mean Year may be noted since 400 is NOT divisible by 6. It may be seen that in 1200-year, ONLY 13 'Additional Keplers' Leap Weeks shall be needed, to give:

Mean Year = (3*400)-years = $[7*(52+1/6+13/1200)] = 365.2425$ days. In addition to normal divide six(6) Leap Weeks, following Additional Keplers' Leap Weeks shall be needed during Y0000 (BC/AD CE) thro Y2400. OPTION for 'Leap Days on Div.4 BUT skip during 128th Years'; or also, 'simple' Div. six(6) 'Leap Weeks' are worked below.

ZERO YEAR (BC/AD CE) thro AD 2400: Gregorian Calendar

[400-year or 3*(7*128)-year Options] DIV.6 & Keplers' Leap Weeks

Year 0000 (BC/AD CE)

0001 0002 0003 Leap 0005 **LWk** 0007 Leap 0009 0010 0011 **LWk** 0013 0014 0015 Leap 0017 **LWk** 0019 Leap
0021 0022 0023 **LWk** 0025 0026 **0027** Leap 0029 **LWk** 0031 Leap 0033 0034 0035 **LWk** 0037 0038 0039 Leap
0041 **LWk** 0043 Leap 0045 0046 0047 **LWk** 0049 0050 0051 Leap 0053 **LWk** 0055 Leap 0057 0058 0059 **LWk**
0061 0062 0063 Leap 0065 **LWk** 0067 Leap 0069 0070 0071 **LWk** 0073 0074 0075 Leap 0077 **LWk** 0079 Leap
0081 0082 0083 **LWk** 0085 0086 **0087** Leap 0089 **LWk** 0091 Leap 0093 0094 0095 **LWk** 0097 0098 0099 0100
0101 **LWk** 0103 Leap 0105 0106 0107 **LWk** 0109 0110 0111 Leap 0013 **LWk** 0015 Leap **0117** 0118 0119 **LWk**

0121 0122 0123 Leap 0125 **LWk** 0127 **0128** 0129 0130 0131 **LWk** 0133 0134 0135 Leap 0137 **LWk** 0139 Leap
0141 0142 0143 **LWk** 0145 0146 0147 Leap 0149 **LWk** 0151 Leap 0153 0154 0155 **LWk** 0157 0158 0159 Leap
0161 **LWk** 0163 Leap 0165 0166 0167 **LWk** 0169 0170 0171 Leap 0173 **LWk** 0175 Leap 0177 0178 0179 **LWk**
0181 0182 **0183** Leap 0185 **LWk** 0187 Leap 0189 0190 0191 **LWk** 0193 0194 0195 Leap 0197 **LWk** 0199 0200
0201 0202 0203 **LWk** 0205 0206 **0207** Leap 0209 **LWk** 0211 Leap 0213 0214 0215 **LWk** 0217 0218 0219 Leap
0221 **LWk** 0223 Leap 0225 0226 0227 **LWk** 0229 0230 0231 Leap 0233 **LWk** 0235 Leap 0237 0238 0239 **LWk**
0241 0242 0243 Leap 0245 **LWk** 0247 Leap 0249 0250 0251 **LWk** 0253 0254 0255 **0256** 0257 **LWk** 0259 Leap
0261 0262 0263 **LWk** 0265 0266 0267 Leap 0269 **LWk** 0271 Leap 0273 0274 0275 **LWk** 0277 0278 **0279** Leap
0281 **LWk** 0283 Leap 0285 0286 0287 **LWk** 0289 0290 0291 Leap 0293 **LWk** 0295 Leap **0297** 0298 0299 **LWk**
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0321 0322 0323 **LWk** 0325 0326 0327 Leap 0329 **LWk** 0331 Leap 0333 0334 0335 **LWk** 0337 0338 0339 Leap
0341 **LWk** 0343 Leap 0345 0346 0347 **LWk** 0349 0350 0351 Leap 0353 **LWk** 0355 Leap 0357 0358 0359 **LWk**
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0381 0382 0383 **LWk** 0385 0386 **0387** Leap 0389 **LWk** 0391 Leap 0393 0394 0395 **LWk** 0397 0398 0399 **LDay**

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0681 0682 0683 **LWk** 0685 0686 0687 Leap 0689 **LWk** 0691 Leap 0693 0694 0695 **LWk** 0697 0698 0699 0700
0701 **LWk** 0703 Leap 0705 0706 0707 **LWk** 0709 0710 0711 Leap 0713 **LWk** 0715 Leap 0717 0718 0719 **LWk**
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0761 **LWk** 0763 Leap 0765 0766 0767 **LWk** 0769 0770 0771 Leap 0773 **LWk** 0775 Leap 0777 0778 0779 **LWk**
0781 0782 0783 Leap 0785 **LWk** 0787 Leap 0789 0790 0791 **LWk** 0793 0794 0795 Leap 0797 **LWk** 0799 **LDay**

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0881 **LWk** 0883 Leap 0885 0886 0887 **LWk** 0889 0890 0891 Leap 0893 **LWk** 0895 **0896** 0897 0898 0899 **LWk**
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 2381 **LWk** 2383 Leap 2385 2386 2387 **LWk** 2389 2390 **2391** Leap 2393 **LWk** 2395 Leap 2397 2398 2399 **LDay**

NOTES:

¹This distribution is based on my New SAROS of $2673 \times 3 = 8019$ -year of $33 \times 27 \times 9$ Cycles, starting at Year ZERO (BC/AD). The 8019-year ‘SAROS’ is then counted as: $[(10 \times 400) + 19 + (10 \times 400)]$.

²Years marked as **BOLD** are ‘divisible by 128-year’ cycle; where Leap Day (div.4/skip 128th) can be **SKIPPED**, as ‘NO LEAP DAY’ but may have a Leap Week – to get enhanced Mean Year = $(365 + 31/128) = 365.2421875$ days.

³When using Gregorian calendar (using 400-year plan) ‘Leap Day – LD’ is skipped at 100th Year but ‘Leap Day is also counted’ during years divisible by 400 – to get Mean Year = 365.2425 days.

⁴Divide six(6) Leap Weeks Plan, using 400-year Gregorian cycle: The following years in **BLUE** are **YEARS, uniformly spaced (96-years) to have 53rd Week** as Addl. Keplers’ Leap Week of the year XXXX. Thus, there shall NOT be more than 13 Addl. Leap Weeks in 400-year cycle: (i.e. $7 \times (52 + 1/6 + 13/1200) = 365.2425$ days).

⁵Years marked in **RED** have a 53rd Week, as Additional Keplers’ Leap Week of the Year, using $[3 \times (7 \times 128) - \text{Years} / 477 \text{ LWks}]$, to get $MY = 7 \times (52 + 1/6 + 29/2688) = 365.2421875$ days. Counted from Year ZERO ‘0000’, following years are Years with Addl. Keplers’ Leap Week of the Year XXXX (i.e. have 53rd Week).

⁶Y₂₀₀₇ is considered ‘Start Year for continuation of Modified Gregorian calendar’ with or without Leap Weeks, using 400-year [or $3 \times (7 \times 128) = 2688$ -years/477 LWks] options.

Reference: http://www.brijvij.com/bb_div.6vshexade400-yr.LWks-distr..pdf