

PLACING KEPLER LEAP WEEKS IN (3*896)-year BLOCKS

You have already produced part of this list:

[with reference to Mail from Karl on Wed 2/17/10 8:59 AM]

0006	0012	0018	0024	0030	0036	0042	0048	0054	0060	0066	0072	0078	0084	0087	0090
0096	0102	0108	0114	0120	0126	0132	0138	0144	0150	0156	0162	0168	0174	0177	0180
0186	0192	0198	0204	0210	0216	0222	0228	0234	0240	0246	0252	0258	0264	0267	0270
0276	0282	0288	0294	0300	0306	0312	0318	0324	0330	0336	0342	0348	0354	0357	0360
0366	0372	0378	0384	0390	0396	0402	0408	0414	0420	0426	0432	0438	0444	0447	0450
0456	0462	0468	0474	0480	0486	0492	0498	0504	0510	0516	0522	0528	0531	0534	0540

[changing to 0531 from 0535]

0546	0552	0558	0564	0570	0576	0582	0588	0594	0600	0606	0612	0618	0621	0624	0630
0636	0642	0648	0654	0660	0666	0672	0678	0684	0690	0696	0702	0708	0711	0714	0720
0726	0732	0738	0744	0750	0756	0762	0768	0774	0780	0786	0792	0798	0801	0804	0810
0816	0822	0828	0834	0840	0846	0852	0858	0864	0870	0876	0882	0888	0891	0894159 LWks

(next 896-year cycle... ..897th year and next KLWk 0981)0900 0906 0912 0918 0924 0930 etc. etc.

Please continue this list for two more 896-year cycles and post to CALNDR_L by Monday 22nd February.

0900	0906	0912	0918	0924	0930	0936	0942	0948	0954	0960	0966	0972	0978	0981	0984
0990	0996	1002	1008	1014	1020	1026	1032	1038	1044	1050	1056	1062	1068	1071	1074
1080	1086	1092	1098	1104	1110	1116	1122	1128	1134	1140	1146	1152	1158	1161	1164
1170	1176	1182	1188	1194	1200	1206	1212	1218	1224	1230	1236	1242	1248	1251	1254
1260	1266	1272	1278	1284	1290	1296	1302	1308	1314	1320	1326	1332	1338	1341	1344
1350	1356	1362	1368	1374	1380	1386	1392	1398	1404	1410	1416	1422	1425	1428	1434
1440	1446	1452	1458	1464	1470	1476	1482	1488	1494	1500	1506	1512	1515	1518	1524
1530	1536	1542	1548	1554	1560	1566	1572	1578	1584	1590	1596	1602	1605	1608	1614
1620	1626	1632	1638	1644	1650	1656	1662	1668	1674	1680	1686	1692	1695	1698	1704
1710	1716	1722	1728	1734	1740	1746	1752	1758	1764	1770	1776	1782	1785	1788159 LWks

(next 896-year cycle... ..1793rd year and next KLWk 1875)

1794	1800	1806	1812	1818	1824	1830	1836	1842	1848	1854	1860	1866	1872	1875	1878
1884	1890	1896	1902	1908	1914	1920	1926	1932	1938	1944	1950	1956	1962	1965	1968
1974	1980	1986	1992	1998	2004	2010	2016	2022	2028	2034	2040	2046	2052	2055	2058
2064	2070	2076	2082	2088	2094	2100	2106	2112	2118	2124	2130	2136	2142	2145	2148
2154	2160	2166	2172	2178	2184	2190	2196	2202	2208	2214	2220	2226	2232	2235	2238
2244	2250	2256	2262	2268	2274	2280	2286	2292	2298	2304	2310	2316	2319	2322	2328
2334	2340	2346	2352	2358	2364	2370	2376	2382	2388	2394	2400	2406	2409	2412	2418
2424	2430	2436	2442	2448	2454	2460	2466	2472	2478	2484	2490	2496	2499	2502	2508
2514	2520	2526	2532	2538	2544	2550	2556	2562	2568	2574	2580	2586	2589	2592	2598
2604	2610	2616	2622	2528	2634	2640	2646	2652	2558	2664	2670	2676	2679	2682	2688 ...159+1 LWk

(next 896-year cycle... ..2689th year and next KLWk 2769)

2694 2700 xxxx xxxx xxxx 2724

(Brij B. Vij)

(20100217/18)

In my (above) attachment sent to Karl (Thu 2/18/10 8:41 AM), I posted LWks `other than those Divide six (6), including : 2670, 2676, **2679**, 2682 and **2688** (shown 'GREEN' is NOT the Kepler Leap Week, but a "Normal divide six (6) LWk). Thus, only 159 Leap Weeks per 896-years [(0087, 0177, 0267, 0357, 0477, **0531**, 0621, 0711, 0801, 0891); (0981,1071,1161,1251,1341, **1425**, 1515,1605, 1695,1785); (1875,1965,2055,2145,2235,**2319**,2409,2499,2589,2679) – (**2688** being a NORMAL LWks AND not A Kepler LWk)]. Arithmetic does 'confuse, since number 896 is NOT divisible by six (6)'. Merger of extra TWO years in 896-years, for working Mean Year (896-years exactly are a little more than 159 Leap Weeks) is taken care by subtracting 'j-factor' from last KLWk i.e. 10th as: $7 * [(52 + 1/6 + (10 - (2/6)) * 896)]$ days. Please see the 'merger of 10th Leap Week (below):

YEARS

FROM		896- year CYCLE	YEARS DURING WHICH KEPLER LEAP WEEK OCCURS 'USING DIVIDE SIX (6)' SCHEME'									
	TO		1	2	3	4	5	6	7	8	9	10
Y1921	Y2816	ONE	2013 th	2103	2193	2283	2373	2463	2553	2643	2733	2816
Y2817 th	Y3712 th	TWO	2909	2999	3089	3179	3269	3359	3449	3539	3629	3712
Y2713 th	Y4608 th	THREE	3805	3895	3985	4075	4165	4255	4345	4435	4525	4608
Y4609 th	Y5504 th	FOUR	4701	Column #1 (First KLWk of cycle) is 93 years after of START of Era/Calendar (1920+93) =Y2013 and rest are spaced 90-years (except between col.9 and col.10 that are spaced 84-years) – also centrally placed between adjacent 'NORMAL' KLWks. This ensures 896-year cycle/spacing between ONE row to next. THREE rows contain 3*896=2688-year i.e.Y1921 to Y4609 (inclusive).								5504
Y5505 th	Y6400 th	FIVE	5597									6400
Y6401 th	Y7296 th	SIX	6493									7296
Etc.	Etc.	SEVEN	7389 th									8192

ALL YEARS, tabulated above, start from Y2013, since [(Y2000 – 80) +/- 128] i.e. Y1920 + 93 =Y2013. This year, Y2013, is chosen to be the FIRST Kepler Leap Week Year; also linked to YEAR after Mayan calendar is 'expected' to have lived its life time on 2012, December 21/22 (Friday) when the Alternate World Calendar (proposed) may be introduced, effective MONDAY i.e. on removing TWO days correcting 'further' accumulated discrepancy of over 2-days, due to Papal Bull – currently under consideration. Following Kepler Leap Weeks are placed at,Y2007 although Y2007 is already gone & consumed, THUS new table (above): (Y1920+87) =Y2007,2097,2187,2277,2367,2457,2547,2637,2727,2817 2903,2993,3083,3173,3263,3353,3443,3533,3623,3713 3799,3889,3979,4069,4159,4249,4339,4429,4519,4609.... etc, ..every 896-years.

j-factor and LEAP WEEK RULE:

My intention STILL remains, using 896-years 'between rows' and columns. Thus, I further reduce 2-years from '86 to 84' making up for extra jitter & accommodating 30th Kepler Leap Week (i.e. Leap Week of Y2688 is NORMAL div.six LWk, also divisible by SIX & 896). THIS being the cause of 'confusion and counted in BOTH cycles, over three 896-year cycles. My drafting may not suit as language for a calendarist, j-factor as pointed by Karl, in my 896-years cycle can be 'RESOLVED' on reducing 1/3rd KLWk from 10th KLWk, as:

Mean Year = $7 * [(52 + 1/6 + (10 - 2/6) / 896)] = 365.2421875$ days [365d 5h 48m 45s.00]

The ORIGINAL 'draft efforts in 1992' was published as:

"THE LEAP WEEK RULE: An 896-year span shall have 327257.01010776 days, to account 159 'leap weeks'. All years shall have 52 weeks, OTHERN THAN THOSE YEARS DIVISIBLE DIVISIBLE BY SIX (6), which shall have an added 53rd week as the leap week of the year, only TEN (10) additional inter-calary leap weeks need adjustment at a frequency of every 90-years - the first three (3) years later (i.e. during 93rd year) and the last three (3) years earlier (i.e. during 87th year), if the 896th year itself happen to be divisible by SIX (6)".

On slight modification, of ORIGINAL Leap Week Rule, I wrote the following at: <http://www.brijvij.com/bb-distr896-yr.LWks.pdf> and placed the revised plan as:

“DIVIDE SIX (6) LEAP WEEK (Revised) PLAN:

A year has a (53rd Week of ‘year xxxx’) i.e. **Leap Week** if it is divisible by SIX (6); OR is ‘one among the Kepler Leap Weeks, so centrally placed between TWO, adjacent NORMAL leap weeks, whose spacing is (generally 90-yrs ± 6) decided by ONE extra than the *numbers of Kepler Leap Weeks of cycle* under consideration, needing insertion. The anomaly, *non-divisibility of cycle by SIX cycle*, can still be handled, arithmetically as: Mean Year = 7*[52+1/6+(k- j)/896] days; where j =x/6=1/3 (x ≠ 3) to gives the right, Mean Year value as: 7*[52+1/6+(10-1/3)/896] =365.2421875 days or 365d 5h 48m 45s.00 j-factor pointed by Karl, in my 896-years cycle can be ‘RESOLVED’ as reducing (2/6) i.e. 1/3rd KLWk from 10th KLWk, resulting in: Mean Year =7*[52+1/6+(10-1/3)/896] =365.2421875 days [365d 5h 48m 45s.00]”

This could be modified to:

DIVIDE SIX (6) LEAP WEEK (Revised) PLAN:

“A year has a (53rd Week of ‘year xxxx’) i.e. **Leap Week or Kepler Leap Week**, if it is divisible by SIX (6); OR is ‘one among the Kepler Leap Weeks i.e. **Year other than those years ‘divisible by SIX (6)/896 in the cycle’**, and so centrally placed between TWO, adjacent NORMAL leap weeks, whose spacing is (generally 90-yrs ± 6) decided by ONE extra than the *numbers of Kepler (EXTRA) Leap Weeks of cycle* under consideration, needing insertion, UNLESS the year itself is divisible by 896 to be considered as NORMAL Leap Week, when Kepler LWk is inserted 3-years earlier”.

The anomaly, *non-divisible by SIX cycle*, in 896-years, can still be handled, arithmetically as:

Mean Year =7*[52+1/6+(k- j)/896] days; where j =x/6=1/3 [(x ≠ 3), being other than 3] to give the right,

Mean Year value as: 7*[52+1/6+(10-1/3)/896] =365.2421875 days or 365d 5h 48m 45s.00

j-factor pointed by Karl, in my 896-years cycle can be ‘RESOLVED’ on reducing (2/6) i.e. 1/3rd KLWk from 10th KLWk, resulting in:

Mean Year =7*[52+1/6+(10-1/3)/896] =365.2421875 days [365d 5h 48m 45s.00]

(Revised: 20100221)

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by: BRIJ BHUSHAN VIJ, Author

PLACING KEPLER LEAP WEEKS IN (3*53)-year BLOCKS

0006	0012	0018	0024	0030	0036	0042	0048	0051	0054	0060	0066	0072	0078	0084	0090	0096	0099
0102	0108	0114	0120	0126	0132	0138	0144	0150	0153	0156	0162	0168	0174	0180	0186	0192	0198
0204	0210	0216	0222	0228	0234	0240	0246	0249	0252	0258	0264	0270	0276	0282	0288	0294	xxxx ...
(53)	0300	0306	0312	0318	0324	0330	0336	0342	0348	0351	0354	0360	0366	0372	0378	0384	0390
0396	0402	0408	0414	0420	0426	0432	0438	0444	0450	0453	0456	0462	0468	0474	0480	0486	0492
0498	0504	0510	0516	0522	0528	0534	0540	0546	0549	0552	0558	0564	0570	0576	0582	0588	0594
xxxx....	(53)	0600	0606	0612	0618	0624	0630	0636	0642	0648	0651	0654	0660	0666	0672	0678	
0684	0690	0696	0702	0708	0714	0720	0726	0732	0738	0744	0750	0753	0756	0762	0768	0774	0780
0786	0792	0798	0804	0810	0816	0822	0828	0834	0840	0846	0849	0852	0858	0864	0870	0876	0882
0888	0894	xxxx ...	(53)	New cycle starts at 0897th year													

These are:[0051, 0153, 0249, 0351, 0453, 0549, 0651, 0753, and 0849]

(Total): (18,18 & 17) i.e. Number of Leap Weeks: (3*53)=159 LWks per 896-yrs.

Y E A R		896 year ~	YEARS DURING WHICH INTER-CALARY LEAP WEEK (i.e., 53rd WEEK) SHALL ALSO FALL									
FROM	TO		1	2	3	4	5	6	7	8	9	10
1999	2894	I	2091	2181	2271	2361	2451	2541	2631	2721	2811	2894
2895	3790	II	2987	3077	3167	3257	3347	3437	3527	3617	3707	3790
3791	4686*	III	3883	3973	4063	4153	4243	4333	4423	4513	4603	4683
4687	5582	IV	4779	4869	4959	5049	5139	5229	5319	5409	5499	5582
5583	6478	V	5675	5765	5855	5945	6035	6125	6215	6305	6395	6478
6479	7374*	VI	6571	6661	6751	6841	6931	7021	7111	7201	7291	7371
7375	8270	VII	7467	7557	7647	7737	7827	7917	8007	8097	8187	8270
8271	9166	VIII	8363	8453	8543	8633	8723	8813	8903	8993	9083	9166
9167	10062*	IX	9259	9349	9439	9529	9619	9709	9799	9889	9979	10059
10063	10958	X	10155	10245	10335	10425	10515	10605	10695	10785	10875	10958

Above: Original (1992) Distribution of 10-Kepler Leap Weeks (Brij Bhushan Vij)

Distribution from START of Year '0000' i.e. 0001st AD/BCE

0006th 0012 0018 0024 0030 0036 0042 0048 0054 0060 0066 0072 0078 0084 0090 0093
0096 0102 0108 0114 0120 0126 0132 0138 0144 0150 0156 0162 0168 0174 0180 0183
0186 0192 0198 0204 0210 0216 0222 0228 0234 0240 0246 0252 0258 0264 0270 0273
0276 0282 0288 0294 0300 0306 0312 0318 0324 0330 0336 0342 0348 0354 0360 0363
0366 0372 0378 0384 0390 0396 0402 0408 0414 0420 0426 0432 0438 0444 0450 0453
0456 0462 0468 0474 0480 0486 0492 0498 0504 0510 0516 0522 0528 0534 0540 0543
0546 0552 0558 0564 0570 0576 0582 0588 0594 0600 0606 0612 0618 0624 0630 0633
0636 0642 0648 0654 0660 0666 0672 0678 0684 0690 0696 0702 0708 0714 0720 0723
0726 0732 0738 0744 0750 0756 0762 0768 0774 0780 0786 0792 0798 0804 0810 0813
0816 0822 0828 0834 0840 0846 0852 0858 0864 0870 0876 0882 0888 0894 0896 xxxxx 159 LWks
(next 896-year cycle... ...897 year and next KLWk 0989)

0900 0906 0912 0918 0924 0930 0936 0942 0948 0954 0960 0966 0972 0978 0984 **0989**
 0990 0996 1002 1008 1014 1020 1026 1032 1038 1044 1050 1056 1062 1068 1074 **1079**
 1080 1086 1092 1098 1104 1110 1116 1122 1128 1134 1140 1146 1152 1158 1164 **1169**
 1170 1176 1182 1188 1194 1200 1206 1212 1218 1224 1230 1236 1242 1248 1254 **1259**
 1260 1266 1272 1278 1284 1290 1296 1302 1308 1314 1320 1326 1332 1338 1344 **1349**
 1350 1356 1362 1368 1374 1380 1386 1392 1398 1404 1410 1416 1422 1428 1434 **1439**
 1440 1446 1452 1458 1464 1470 1476 1482 1488 1494 1500 1506 1512 1518 1524 **1529**
 1530 1536 1542 1548 1554 1560 1566 1572 1578 1584 1590 1596 1602 1608 1614 **1619**
 1620 1626 1632 1638 1644 1650 1656 1662 1668 1674 1680 1686 1692 1698 1704 **1709**
 1710 1716 1722 1728 1734 1740 1746 1752 1758 1764 1770 1776 1782 1788 **1792** xxxx **159 LWks**
 (next 896-year cycle... ...1793 year and next KLWk 1885)

1794 1800 1806 1812 1818 1824 1830 1836 1842 1848 1854 1860 1866 1872 1878 1884
1885 1890 1896 1902 1908 1914 1920 1926 1932 1938 1944 1950 1956 1962 1968 1974
1975 1980 1986 1992 1998 2004 2010 2016 2022 2028 2034 2040 2046 2052 2058 2064
2065 2070 2076 2082 2088 2094 2100 2106 2112 2118 2124 2130 2136 2142 2148 2154
2155 2160 2166 2172 2178 2184 2190 2196 2202 2208 2214 2220 2226 2232 2238 2244
2245 2250 2256 2262 2268 2274 2280 2286 2292 2298 2304 2310 2316 2322 2328 2334
2335 2340 2346 2352 2358 2364 2370 2376 2382 2388 2394 2400 2406 2412 2418 2424
2425 2430 2436 2442 2448 2454 2460 2466 2472 2478 2484 2490 2496 2502 2508 2514
2515 2520 2526 2532 2538 2544 2550 2556 2562 2568 2574 2580 2586 2592 2598 2604
2605 2610 2616 2622 2528 2634 2640 2646 2652 2558 2664 2670 2676 2682 **2688** .xxxx **159 LWks**
 (next 896-year cycle... ...2689 year and next KLWk 2781)

2694 etc.. [Note: Year 2688 is a NORMAL Leap Week, since divisible by six and also 896 (as such not a Kepler Leap Week) in 896-year cycle! [\[metricvij@hotmail.com\]](mailto:metricvij@hotmail.com)]