Appendix C

Sample Data

I admit that it is not farfetched that I might err, that some analysis or source elude me—this is not a big matter. I am elated that I am being scrutinized so carefully; whosoever does so merits reward and gratitude. For either he is correct in his critique and I benefit thereby, or, if he is in error, he will derive benefit.

Maimonides: Letter to Joseph ben Judah Ibn Simeon, to whom

The Guide to the Perplexed was addressed (1191)

To aid the reader interested in implementing our functions, we give two sets of tables in this appendix. First, we give tables of 33 dates from the years -1000 to 2100 with their equivalents on all the calendars discussed in the book. For each date we also give the dates of Easter that same year (Orthodox, Gregorian, and astronomical); the ephemeris correction, equation of time, and solar longitude at 12:00:00 U.T.; the moment of the next solstice or equinox (U.T.); the standard times of astronomical dawn in Paris, astronomical midday in Tehran, and astronomical sunset for Jerusalem; the lunar longitude, latitude, and altitude at 00:00:00 u.t.; the moment of the next new moon (u.t.), and the standard times of moonrise and moonset in Mecca. At the bottom of each column in the tables is the equation number and corresponding page of the function used to compute that column. Changes in the hardware and software since the preparation of the third edition have caused minor changes in some sample values compared with that edition; the revision of what we called the "future Bahá'í calendar" (now the astronomical calendar) has caused significant changes to some of those sample values. The second set of tables gives the Gregorian dates in 2000-2103 of many holidays and other calendrical events as calculated by the functions in this book.

All dates and values given in this appendix are as computed by our functions and hence may not represent historical reality; furthermore, some dates are not meaningful for all calendars. Though times are reported down to the second, the astronomical algorithms that we use do not promise such accuracy.

As pointed out in Section 1.16, the precise values of floating-point calculations may differ depending on the programming language, implementation, and platform. For example, with 64-bit (double precision) calculations, the solar longitude at midnight for the first date, R.D. –214193, computed with the expression

solar-longitude(-214193)

differs slightly from one implementation and computer to another:

- Allegro Common Lisp on a Sun Blade gives 118.98911336371384°;
- LispWorks on a MacBook Air with Intel Core i5 and GNU Common Lisp on an Intel Xeon E5410 and on an Intel Core i3-530 give 118.98911336367019°;
- CLisp on an HP Compaq PC gives 118.98911336376116°; and
- GNU Common Lisp on an Intel Xeon E5-2680 v2 gives 118.9891133637611631°.

Such small differences, in this case about $1^{\circ} \times 10^{-10}$ of arc or 8×10^{-6} seconds of time, are highly unlikely to affect the computations of dates. However, single precision yields a noticeably different value, 119.00391° .

All the values in this appendix were computed in double precision on an Intel[®] Xeon[®] E5-2680 v2 at 2.80 GHz and required about 208 seconds to produce.

But go thou thy way till the end be; and thou shalt rest, and shalt stand up to thy lot, at the end of the days.

Daniel 12:13

¹The negative years in the first two lines of the columns for the Julian date and the Roman name are B.C.E. years, 587 B.C.E. and 169 B.C.E., respectively. They appear as negative numbers because the table consists of raw output from the Lisp functions.

Chines	se	Hindu Solar	Hindu Lunis	olar
R.D. Date Name	Next Zhongqi Old	Modern Astronom	ical Old Modern	Astronomical Tibetan
-214193 35 11 6 f 12 2 10	-214191.633133 2515 5 19	0 -664 5 19 -664 5	13 2515 6 f 11 -529 6 f 11	f -529 6 t 11 f -459 8 f 11 f
-61387 42 9 10 <i>f</i> 27 8 8	-61370.729673 2933 9 26	6 -246 9 26 -246 9	21 2933 9 f 26 -111 9 f 27	f - 111 9 f 27 f - 41 12 f 27 f
25469 46 7 8 <i>f</i> 4 4 8	25498.215092 3171 7 11	-8 7 9 -8 7	5 3171 8 f 3 127 8 f 3	f 127 8 f 3 t 197 10 f 3 f
49217 47 12 8 f 9 2 8	49239.004860 3236 7 17	7 57 7 16 57 7	11 3236 8 f 9 192 8 f 9	f 192 8f 9f 262 10f 9f
171307 52 46 11 <i>f</i> 20 2 10	171318.588098 3570 10 19	391 10 21 391 10	17 3570 11 <i>t</i> 19 526 11 <i>f</i> 19	0 f 526 10 f 20 f 596 12 f 19 f
210155 54 33 4 f 5 10 2	210156.745715 3677 2 28	3 498 231 498 2	27 3677 3 f 5 633 3 f 5	f 633 3f 5f 703 5f 4f
253427 56 31 10 <i>f</i> 15 2 2	253439.318423 3795 8 17	616 8 16 616 8	13 3795 9 f 15 751 9 f 15	f 751 8f 821 10f 15f
369740 61 50 3 f 7 5 11	369767.423610 4114 1 26	935 1 28 935 1	26 4114 2 f 7 1070 2 f 6	6f 1070 2f 6f 1140 4f 6f
400085 63 13 4 f 24 10 8	400113.941895 4197 2 24	1018 2 26 1018 2	24 4197 2 f 24 1153 3 t 23	f 1153 2 f 23 f 1223 4 f 23 f
434355 64 47 2 f 9 10 6	434384.035740 4290 12 20	1111 12 23 1111 12	$21 4291 ext{ } 1 f ext{ } 9 1247 ext{ } 1 f ext{ } 8$	$3f \mid 1247 \mid 1f \mid 8f \mid 1317 \mid 3f \mid 8f$
452605 65 37 2 f 9 10 4	452615.458234 4340 12 7	7 1161 12 10 1161 12	8 4340 12 f 9 1297 1 f 8	
470160 66 25 2 f 23 5 3	470177.759817 4388 12 30	1210 1 2 1209 12	31 4389 1 f 23 1345 1 f 22	$2f \mid 1345 \mid 1 \mid f \mid 23 \mid f \mid 1415 \mid 2 \mid f \mid 22 \mid f \mid$
473837 66 35 3 f 9 2 8	473861.324287 4399 1 24	1 1220 1 27 1220 1	25 4399 2 f 8 1355 2 f 8	$3f \mid 1355 \mid 2f \mid 8f \mid 1425 \mid 4f \mid 8f$
507850 68 8 5 f 2 5 1	507860.235360 4492 3 7	7 1313 3 8 1313 3	$7 4492 \ 4f \ 2 1448 \ 4f \ 1$	f 1448 4f 1f 1518 5f 1f
524156 68 53 1 f 8 1 11	524172.836499 4536 10 28	3 1357 10 30 1357 10	28 4536 11 f 7 1492 11 f 7	$ f 1492 \ 11 \ f 7 \ f 1563 \ 1 \ f 7 \ f$
544676 69 49 3 f 4 1 11	544687.134951 4593 1 3	8 1414 1 5 1414 1	4 4593 1 f 3 1549 2 t 3	$ f 1549 \ 2 \ t \ 4 \ f 1619 \ 3 \ f \ 3 \ f$
567118 70 50 8 f 2 3 1	567122.835546 4654 6 12		9 4654 7 <i>f</i> 2 1610 7 <i>f</i> 2	2f 1610 7f 2f 1680 8f 2f
569477 70 57 1 <i>f</i> 29 2 8	569492.996631 4660 11 27		28 4660 11 <i>f</i> 29 1616 11 <i>f</i> 28	
601716 72 25 4 t 20 1 3	601727.342101 4749 3 1	1 1570 3 3 1570 3	2 4749 3 f 20 1705 3 f 20	f 1705 3 f 20 f 1775 4 f 20 f
613424 72 57 6 f 5 9 11	613446.520844 4781 3 21	1602 3 22 1602 3	22 4781 4 f 4 1737 4 f 4	f 1737 + 4f + 5f = 1807 + 6t + 4f
626596 73 33 6 f 6 1 7	626626.467423 4817 4 13		13 4817 5f 6 1773 5f 6	
645554 74 25 5 <i>f</i> 5 9 5	645556.325334 4869 3 8	3 1690 3 10 1690 3	9 4869 4 f 5 1825 4 f 5	f 1825 + 4f + 5f + 1895 + 5f + 5f
664224 75 16 6 f 12 9 3	664246.376294 4920 4 20	1741 4 20 1741 4	20 4920 5 f 12 1876 5 f 11	f 1876 5f 11 f 1946 6f 11 f
671401 75 36 2 f 13 6 4	671426.124336 4939 12 13		15 4940 1 t 13 1896 1 f 13	
694799 76 40 3 f 22 4 2		1825 1 7 1825 1	7 5004 1 f 23 1960 1 f 22	2f 1960 1 f 22 f 2030 2 f 22 f
704424 77 6 7 <i>f</i> 21 9 3	704453.869487 5030 5 11		10 5030 5 f 21 1986 5 f 20	
708842 77 18 8 f 9 7 5	708867.143728 5042 6 15	5 1863 6 14 1863 6	14 5042 7 f 9 1998 7 f 9	
709409 77 20 3 f 15 4 8		1 1865 1 7 1865 1	6 5044 1 f 15 2000 1 f 14	
709580 77 20 9 f 9 5 11	709597.630490 5044 6 23	1	21 5044 7 f 9 2000 7 f 8	
727274 78 9 2 <i>f</i> 14 9 5	727277.699910 5092 12 2		4 5092 12 f 14 2048 12 f 14	
728714 78 13 1 f 7 9 5	728738.668683 5096 11 11		13 5096 12 f 7 2052 12 f 7	
744313 78 55 10 <i>f</i> 14 8 4	744325.563213 5139 7 26		25 5139 8 f 14 2095 8 f 14	
764652 79 51 6 <i>f</i> 7 7 3	764656.564371 5195 4 2	2 2016 4 2 2016 4	2 5195 4 f 6 2151 4 f 6	f = 2151 + 4f + 6f = 2221 + 6f + 6f
Function (19.16) (19.24) Page 317 320	(19.4) (10.8) 308 159	(20.20) (20.45) 347 360	(10.13) (20.23) 165 349	(20.48) (21.5) 361 378

			C-1I	NI4	Dawn in Paris	M:44: T-1	C1
	Ephemeris	Equation	Solar Longitude	Next		Midday in Tehran 21.42° N, 39.82° E, 298m	Sunset in Jerusalem
	Correction	of Time		, 1		(Standard Time)	(Standard Time)
R.D.			(Degrees)	(R.D.)	(Standard Time)	,	
-214193		-0.001190			0.095285 = 02:17:13	0.504216 = 12:06:04	0.780556 = 18:44:00
-61387	0.143632	0.003159	254.248961		0.277372 = 06:39:25	0.499952 = 11:59:56	0.697324 = 16:44:09
25469	0.114444	0.005373	181.435996		0.203569 = 04:53:08	0.497556 = 11:56:29	0.734889 = 17:38:14
49217	0.107183	0.006791	188.663922		0.212231 = 05:05:37	0.496143 = 11:54:27	0.728514 = 17:29:04
171307		-0.007231	289.091566		0.286370 = 06:52:22	0.510331 = 12:14:53	0.708788 = 17:00:39
210155	0.057506	0.004410	59.119741		0.096280 = 02:18:39	0.498595 = 11:57:59	0.774201 = 18:34:51
253427	0.044758	0.009897	228.314554		0.253730 = 06:05:22	0.493137 = 11:50:07	0.700877 = 16:49:16
369740	0.017397	0.001987	34.460769		0.149472 = 03:35:14	0.500958 = 12:01:23	0.762736 = 18:18:20
400085	0.012796	0.003478	63.187995	400113.618511	0.088486 = 02:07:25	0.499538 = 11:59:20	0.776777 = 18:38:34
434355	0.008869	-0.004947	2.457591	434446.328561	0.209217 = 05:01:16	0.507865 = 12:11:20	0.748088 = 17:57:15
452605	0.007262	-0.007588	350.475934	452615.134851	0.228552 = 05:29:07	0.510516 = 12:15:09	0.742536 = 17:49:15
470160	0.005979	-0.002369	13.498220	470240.017391	0.189859 = 04:33:24	0.505289 = 12:07:37	0.753102 = 18:04:28
473837	0.005740	0.002140	37.403920	473892.432571	0.143920 = 03:27:15	0.500814 = 12:01:10	0.764402 = 18:20:44
507850	0.003875	0.001195	81.028130	507859.911980	bogus	0.501853 = 12:02:40	0.784041 = 18:49:01
524156	0.003157	-0.010356	313.860498	524202.622400	0.272361 = 06:32:12	0.513383 = 12:19:16	0.722535 = 17:20:27
544676	0.002393	-0.001013	19.954430	544749.318739	0.178067 = 04:16:25	0.503941 = 12:05:41	0.756134 = 18:08:50
567118	0.001731	0.004277	176.059431	567122.512168	0.196839 = 04:43:27	0.498637 = 11:58:02	0.739658 = 17:45:06
569477	0.001669	-0.008429	344.922951	569492.673245	0.236578 = 05:40:40	0.511368 = 12:16:22	0.739663 = 17:45:07
601716	0.000615	0.000943	79.964921	601727.018725	0.045748 = 01:05:53	0.502105 = 12:03:02	0.784057 = 18:49:03
613424	0.000177	-0.002039	99.302317	613508.259061	bogus	0.505088 = 12:07:20	0.787086 = 18:53:24
626596	0.000101	-0.004076	121.535304	626656.970915	0.105595 = 02:32:03	0.507082 = 12:10:12	0.781969 = 18:46:02
645554	0.000171	-0.000541	88.567428	645556.001954	bogus	0.503594 = 12:05:11	0.786308 = 18:52:17
664224	0.000136	-0.004143	129.289884	664276.907718	0.122462 = 02:56:21	0.507129 = 12:10:16	0.778132 = 18:40:31
671401	0.000061	-0.004008	6.146910	671488.166885	0.202856 = 04:52:07	0.506931 = 12:09:59	0.749687 = 17:59:33
694799	0.000014	0.000392	28.251993	694863.628311	0.162579 = 03:54:07	0.502551 = 12:03:40	0.760231 = 18:14:44
704424	0.000276	-0.001555	151.780633	704453.536160	0.163289 = 03:55:08	0.504488 = 12:06:28	0.761909 = 18:17:09
708842	0.000296	0.006529	185.945867	708926.239052	0.208698 = 05:00:32	0.496387 = 11:54:48	0.730647 = 17:32:08
709409	0.000302	0.000427	28.555607	709473.300039	0.162020 = 03:53:19	0.502516 = 12:03:37	0.760390 = 18:14:58
709580	0.000302	0.008180	193.347892	709656.728163	0.216912 = 05:12:21	0.494746 = 11:52:26	0.724012 = 17:22:35
727274	0.000675	-0.005843	357.151254	727277.366581	0.217687 = 05:13:28	0.508771 = 12:12:38	0.745361 = 17:53:19
728714	0.000712	-0.009214	336.170692	728738.335351	0.247980 = 05:57:06	0.512176 = 12:17:32	0.734750 = 17:38:02
744313	0.000963	0.011238	228.184879	744354.792807	0.251890 = 06:02:43	0.491786 = 11:48:10	0.699821 = 16:47:45
764652	0.002913	-0.004466	116.439352	764718.468836	0.094955 = 02:16:44	0.507483 = 12:10:47	0.784480 = 18:49:39
Function	(14.15)	(14.20)	(14.33)	(14.36)	(14.72)	(14.26)	(14.77)
Page	210	215	223	224	241	218	242

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			20.00		7.37 (21.12)	
		osition at 00:0		Next	In Mecca (21.42° I	
	Longitude	Latitude	Altitude	New Moon	Moonrise	Moonset
R.D.	(Degrees)	(Degrees)	(Degrees)	(R.D.)	(Standard Time)	(Standard Time)
-214193	244.853905	2.452759	-13.163184	-214174.605828	0.645260 = 15:29:10	0.084225 = 02:01:17
-61387	208.856738	-4.902230	-7.281426	-61382.995328	0.146650 = 03:31:11	0.627607 = 15:03:45
25469	213.746842	-2.939469	-77.149900	25495.809776	0.365595 = 08:46:27	0.842646 = 20:13:25
49217	292.046243	5.001904	-30.401178	49238.502448	0.582553 = 13:58:53	0.030307 = 00:43:39
171307	156.819014	-3.208909	71.848578	171318.435313	0.926722 = 22:14:29	0.419886 = 10:04:38
210155	108.055632	0.894361	-43.798579	210180.691849	0.391565 = 09:23:51	0.965784 = 23:10:44
253427	39.356097	-3.863335	40.653204	253442.859367	0.737227 = 17:41:36	0.252852 = 06:04:06
369740	98.565851	-2.522444	-40.278725	369763.746413	0.434271 = 10:25:21	bogus
400085	332.958296	1.032069	29.611156	400091.578343	0.028119 = 00:40:30	0.528119 = 12:40:30
434355	92.259651	3.005689	-19.973178	434376.578106	0.501712 = 12:02:28	0.052493 = 01:15:35
452605	78.132029	1.613843	-23.740743	452627.191972	0.494050 = 11:51:26	0.037996 = 00:54:43
470160	274.946995	4.766741	30.956688	470167.578360	0.013196 = 00:19:00	0.493177 = 11:50:11
473837	128.362844	4.899203	-18.888690	473858.853276	0.519306 = 12:27:48	0.060322 = 01:26:52
507850	89.518450	4.838474	-32.161162	507878.666842	0.259826 = 06:14:09	0.856017 = 20:32:40
524156	24.607322	2.301475	-45.680919	524179.247062	0.452190 = 10:51:09	bogus
544676	53.485956	-0.890563	-50.292110	544702.753873	0.343276 = 08:14:19	0.908706 = 21:48:32
567118	187.898520	4.765784	-54.345305	567146.513181	0.300431 = 07:12:37	0.818009 = 19:37:56
569477	320.172362	-2.737358	-34.566000	569479.203258	0.231763 = 05:33:44	0.714185 = 17:08:26
601716	314.042566	-4.035652	44.131989	601727.033557	0.973015 = 23:21:09	0.416862 = 10:00:17
613424	145.474065	-3.157214	-57.539862	613449.762129	0.394417 = 09:27:58	0.932503 = 22:22:48
626596	185.030507	-1.879614	-62.082439	626620.369801	0.450518 = 10:48:45	0.956378 = 22:57:11
645554	142.189132	-3.379519	-54.072091	645579.076748	0.416008 = 09:59:03	0.952629 = 22:51:47
664224	253.743375	-4.398341	-16.120452	664242.886718	0.657391 = 15:46:39	0.070965 = 01:42:11
671401	151.648685	2.099198	23.864594	671418.970538	0.686259 = 16:28:13	0.200419 = 04:48:36
694799	287.987743	5.268746	32.950146	694807.563371	0.008243 = 00:11:52	0.489200 = 11:44:27
704424	25.626707	-1.672299	72.691651	704433.491182	0.916779 = 22:00:10	0.429962 = 10:19:09
708842	290.288300	4.682012	-29.849481	708863.597000	0.586590 = 14:04:41	0.031414 = 00:45:14
709409	189.913142	3.705518	31.610644	709424.404929	0.742587 = 17:49:20	0.224521 = 05:23:19
709580	284.931730	2.493964	-42.219689	709602.082686	0.555246 = 13:19:33	bogus
727274	152.339044	-4.167774	28.647809	727291.209400	0.719220 = 17:15:41	0.214825 = 05:09:21
728714	51.662265	-2.873757	-38.950553	728737.447691	0.466211 = 11:11:21	bogus
744313	26.682060	-4.667251	27.601977	744329.573999	0.705999 = 16:56:38	0.211858 = 05:05:05
764652	175.500822	5.138562	-54.854681	764676.191273	0.436806 = 10:29:00	0.963174 = 23:06:58
Function Page	(14.48) 232	(14.63) 236	(14.64) 237	(14.47) 231	(14.83) 244	(14.84) 245

Holiday	Func., page	2000	2001	2002	2003	2004	2005	2006	2007
Advent Sunday	(2.42), 70	12/3	12/2	12/1	11/30	11/28	11/27	12/3	12/2
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none							
Birth of the Bāb	(16.13), 278	10/28	10/18	11/6	10/26	10/15	11/3	10/23	11/11
Birthday of Rama	(20.61), 369	4/12	4/2	4/21	4/10	3/30	4/17	4/6	3/27
Chinese New Year	(19.26), 322	2/5	1/24	2/12	2/1	1/22	2/9	1/29	2/18
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	10/28	11/16	11/5	10/26	11/13	11/2	10/23	11/10
Dragon Festival	(19.27), 324	6/6	6/25	6/15	6/4	6/22	6/11	5/31	6/19
Easter	(9.3), 148	4/23	4/15	3/31	4/20	4/11	3/27	4/16	4/8
Easter (Astronomical)	(18.9), 292	4/23	4/15	3/31	4/20	4/11	3/27	4/16	4/8
Easter (Orthodox)	(9.1), 146	4/30	4/15	5/5	4/27	4/11	5/1	4/23	4/8
Epiphany	(2.43), 71	1/2	1/7	1/6	1/5	1/4	1/2	1/8	1/7
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/21	3/21	3/20	3/20	3/21	3/21
Feast of Ridvān	(16.11), 277	4/20	4/20	4/21	4/21	4/20	4/20	4/21	4/21
Friday the 13th (first)	(2.45), 71	10/13	4/13	9/13	6/13	2/13	5/13	1/13	4/13
Great Night of Shiva	(20.60), 369	3/4	2/21	3/12	3/1	2/18	3/8	2/26	2/16
Hanukkah (first day)	(8.43), 134	12/22	12/10	11/30	12/20	12/8	12/26	12/16	12/5
Hindu Lunar New Year	(20.53), 365	4/5	3/25	4/13	4/2	3/21	4/9	3/30	3/19
Icelandic Summer	(6.2), 100	4/20	4/19	4/25	4/24	4/22	4/21	4/20	4/19
Icelandic Winter	(6.2), 100	10/21	10/27	10/26	10/25	10/23	10/22	10/21	10/27
Kajeng Keliwon (first)	(12.16), 190	1/15	1/9	1/4	1/14	1/9	1/3	1/13	1/8
Losar	(21.9), 381	2/6	2/24	2/13	3/3	2/21	2/9	2/28	2/18
Mawlid	(7.6), 109	6/15	6/4	5/24	5/14	5/2	4/21	4/11	3/31
Mesha Samkrānti (date)	(20.51), 364	4/13	4/14	4/14	4/14	4/13	4/14	4/14	4/14
Nowruz	(15.11), 265	3/20	3/21	3/21	3/21	3/20	3/21	3/21	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/8	3/27	3/16	4/4	3/23	3/12	3/31	3/21
Passover	(8.31), 129	4/20	4/8	3/28	4/17	4/6	4/24	4/13	4/3
Passover Eve (Classical)	(18.25), 298	3/21	4/9	3/29	4/17	4/5	3/25	4/13	4/3
Pentecost	(9.4), 152	6/11	6/3	5/19	6/8	5/30	5/15	6/4	5/27
Purim	(8.33), 129	3/21	3/9	2/26	3/18	3/7	3/25	3/14	3/4
Qīngmíng	(19.28), 324	4/4	4/5	4/5	4/5	4/4	4/5	4/5	4/5
Sacred Wednesday (first)	(20.65), 370	4/12	1/3	2/20	12/31	4/28	2/16	8/2	9/19
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/20	3/8	2/25	3/17	3/4	3/24	3/13	3/1
Tishah be-Av	(8.35), 130	8/10	7/29	7/18	8/7	7/27	8/14	8/3	7/24
Tumpek (first)	(12.17), 190	1/15	2/3	1/19	1/4	1/24	1/8	1/28	1/13
U.S. Daylight Saving End	(2.40), 70	11/5	11/4	11/3	11/2	11/7	11/6	11/5	11/4
U.S. Daylight Saving Start	1 ' ''	3/12	3/11	3/10	3/9	3/14	3/13	3/12	3/11
U.S. Election Day	(2.39), 70	11/7	11/6	11/5	11/4	11/2	11/8	11/7	11/6
U.S. Independence Day	(2.38), 70	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.32), 69	9/4	9/3	9/2	9/1	9/6	9/5	9/4	9/3
U.S. Memorial Day	(2.36), 69	5/29	5/28	5/27	5/26	5/31	5/30	5/29	5/28
Yom ha-Zikkaron		5/9	4/25	4/16	5/6	4/26	5/11	5/29	4/23
	(8.36), 131	'		' '	'	,	'	,	9/22
Yom Kippur	(8.30), 128	10/9	9/27	9/16	10/6	9/25	10/13	10/2	9/22

Holiday	Func., page	2008	2009	2010	2011	2012	2013	2014	2015
Advent Sunday	(2.42), 70	11/30	11/29	11/28	11/27	12/2	12/1	11/30	11/29
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none	4/8	none	none	none	none	none	none
Birth of the Bāb	(16.13), 278	10/30	10/19	11/7	10/28	10/16	11/4	10/25	11/13
Birthday of Rama	(20.61), 369	4/14	4/3	3/24	4/12	3/31	4/19	4/8	3/28
Chinese New Year	(19.26), 322	2/7	1/26	2/14	2/3	1/23	2/10	1/31	2/19
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	10/29	10/19	11/7	10/27	11/14	11/4	10/24	11/12
Dragon Festival	(19.27), 324	6/8	5/28	6/16	6/6	6/23	6/12	6/2	6/20
Easter	(9.3), 148	3/23	4/12	4/4	4/24	4/8	3/31	4/20	4/5
Easter (Astronomical)	(18.9), 292	3/23	4/12	4/4	4/24	4/8	3/31	4/20	4/5
Easter (Orthodox)	(9.1), 146	4/27	4/19	4/4	4/24	4/15	5/5	4/20	4/12
Epiphany	(2.43), 71	1/6	1/4	1/3	1/2	1/8	1/6	1/5	1/4
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/21	3/21	3/20	3/20	3/21	3/21
Feast of Ridvān	(16.12), 277	4/20	4/20	4/21	4/21	4/20	4/20	4/21	4/21
Friday the 13th (first)	(2.45), 71	6/13	2/13	8/13	5/13	1/13	9/13	6/13	2/13
Great Night of Shiva	(20.60), 369	3/5	2/23	2/12	3/2	2/20	3/10	2/27	2/17
Hanukkah (first day)	(8.43), 134	12/22	12/12	12/2	12/21	12/9	11/28	12/17	12/7
Hindu Lunar New Year	(20.53), 365	4/7	3/27	3/16	4/4	3/23	4/11	3/31	3/21
Icelandic Summer	(6.2), 100	4/24	4/23	4/22	4/21	4/19	4/25	4/24	4/23
Icelandic Winter	(6.3), 100	10/25	10/24	10/23	10/22	10/27	10/26	10/25	10/24
Kajeng Keliwon (first)	(12.16), 190	1/3	1/12	1/7	1/2	1/12	1/6	1/1	1/11
Losar	(21.9), 381	2/7	2/25	2/14	3/5	2/22	2/11	3/2	2/19
Mawlid	(7.6), 109	3/20	3/9	2/26	2/16	2/5	1/24	1/14	1/3
Mesha Samkrānti (date)	(20.51), 364	4/13	4/14	4/14	4/14	4/13	4/14	4/14	4/14
Nowruz	(15.11), 265	3/20	3/21	3/21	3/21	3/20	3/21	3/21	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/9	3/28	3/18	3/7	3/24	3/13	4/1	3/22
Passover	(8.31), 129	4/20	4/9	3/30	4/19	4/7	3/26	4/15	4/4
Passover Eve (Classical)	(18.25), 298	3/22	4/10	3/31	3/20	4/6	3/26	4/14	4/4
Pentecost	(9.4), 152	5/11	5/31	5/23	6/12	5/27	5/19	6/8	5/24
Purim	(8.33), 129	3/21	3/10	2/28	3/20	3/8	2/24	3/16	3/5
Qīngmíng	(19.28), 324	4/4	4/4	4/5	4/5	4/4	4/4	4/5	4/5
Sacred Wednesday (first)	(20.65), 370	1/16	3/4	9/15	1/12	6/27	3/20	1/8	6/24
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/20	3/9	2/25	3/17	3/7	2/21	3/13	3/4
Tishah be-Av	(8.35), 130	8/10	7/30	7/20	8/9	7/29	7/16	8/5	7/26
Tumpek (first)	(12.17), 190	2/2	1/17	1/2	1/22	1/7	1/26	1/11	1/31
U.S. Daylight Saving End	(2.40), 70	11/2	11/1	11/7	11/6	11/4	11/3	11/2	11/1
U.S. Daylight Saving Start	(2.39), 70	3/9	3/8	3/14	3/13	3/11	3/10	3/9	3/8
U.S. Election Day	(2.38), 70	11/4	11/3	11/2	11/8	11/6	11/5	11/4	11/3
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/1	9/7	9/6	9/5	9/3	9/2	9/1	9/7
U.S. Memorial Day	(2.37), 70	5/26	5/25	5/31	5/30	5/28	5/27	5/26	5/25
Yom ha-Zikkaron	(8.36), 131	5/7	4/28	4/19	5/9	4/25	4/15	5/5	4/22
Yom Kippur	(8.30), 128	10/9	9/28	9/18	10/8	9/26	9/14	10/4	9/23

Holiday	Func., page	2016	2017	2018	2019	2020	2021	2022	2023
Advent Sunday	(2.42), 70	11/27	12/3	12/2	12/1	11/29	11/28	11/27	12/3
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none	none	none	none	none	none	none	none
Birth of the Bāb	(16.13), 278	11/1	10/21	11/9	10/29	10/18	11/6	10/26	10/16
Birthday of Rama	(20.61), 369	4/15	4/5	3/25	4/13	4/2	4/21	4/10	3/30
Chinese New Year	(19.26), 322	2/8	1/28	2/16	2/5	1/25	2/12	2/1	1/22
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	10/31	10/20	11/8	10/29	11/16	11/5	10/26	11/14
Dragon Festival	(19.27), 324	6/9	5/30	6/18	6/7	6/25	6/14	6/3	6/22
Easter	(9.3), 148	3/27	4/16	4/1	4/21	4/12	4/4	4/17	4/9
Easter (Astronomical)	(18.9), 292	3/27	4/16	4/1	3/24	4/12	4/4	4/17	4/9
Easter (Astronomical) Easter (Orthodox)	(9.1), 146	5/1	4/16	4/8	4/28	4/19	5/2	4/24	4/16
Epiphany	(2.43), 71	1/3	1/8	1/7	1/6	1/5	1/3	1/2	1/8
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/21	3/21	3/20	3/20	3/21	3/21
Feast of Ridvān	(16.11), 277	4/20	4/20	4/21	4/21	4/20	4/20	4/21	4/21
Friday the 13th (first)	(2.45), 71	5/13	1/13	4/13	9/13	3/13	8/13	5/13	1/13
Great Night of Shiva	(20.60), 369	3/13	2/24	2/13	3/4	2/21	3/11	3/13	2/18
Hanukkah (first day)	(8.43), 134	12/25	12/13	12/3	12/23	12/11	11/29	12/19	12/8
Hindu Lunar New Year	1 ' ''	4/8	3/29	3/18	4/6	3/25	4/13	4/2	3/22
Icelandic Summer	(20.53), 365	4/0	3/29 4/20	4/19	4/25	3/23 4/23	4/13	4/21	4/20
Icelandic Winter	(6.2), 100	'	,	10/27	10/26	,	10/23	10/22	10/28
Kajeng Keliwon (first)	(6.3), 100 (12.16), 190	10/22	10/21 1/15	1/10	1/5	10/24 1/15	1/9	1/4	1/14
Losar	1 ' ' '	'	2/27	l '	,	,	2/12	,	,
Mawlid	(21.9), 381	2/9	12/1	2/16 11/21	2/5 11/10	2/24 10/29	10/19	3/3 10/8	2/21 9/27
Mesha Samkrānti (date)	(7.6), 109	12/12	4/14	4/14		,	4/14	,	4/14
Nowruz	(20.51), 364	4/13 3/20	3/21	3/21	4/14 3/21	4/13	3/21	4/14 3/21	3/21
	(15.11), 265	'		'	'	3/20	,	,	,
Observ. Hebrew 1 Nisan	(18.22), 297	3/11	3/30	3/19	3/8	3/26	3/15	4/3	3/23
Passover Eve (Classical)	(8.31), 129	4/23	4/11	3/31	4/20	4/9	3/28	4/16	4/6
Passover Eve (Classical)	(18.25), 298	3/24	4/12	4/1	3/21	4/8	3/28	4/16	4/5
Pentecost	(9.4), 152	5/15	6/4	5/20	6/9	5/31	5/23	6/5	5/28
Purim	(8.33), 129	3/24	3/12	3/1	3/21	3/10	2/26	3/17	3/7
Qīngmíng	(19.28), 324	4/4	4/4	4/5	4/5	4/4	4/4	4/5	4/5
Sacred Wednesday (first)	(20.65), 370	3/16	5/3	10/17	2/13	4/1	10/13	2/9	3/29
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/23	3/9	2/28	3/20	3/9	2/25	3/16	3/6
Tishah be-Av	(8.35), 130	8/14	8/1	7/22	8/11	7/30	7/18	8/7	7/27
Tumpek (first)	(12.17), 190	1/16	2/4	1/20	1/5	1/25	1/9	1/29	1/14
U.S. Daylight Saving End	(2.40), 70	11/6	11/5	11/4	11/3	11/1	11/7	11/6	11/5
U.S. Daylight Saving Start	1 ' ''	3/13	3/12	3/11	3/10	3/8	3/14	3/13	3/12
U.S. Election Day	(2.38), 70	11/8	11/7	11/6	11/5	11/3	11/2	11/8	11/7
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/5	9/4	9/3	9/2	9/7	9/6	9/5	9/4
U.S. Memorial Day	(2.37), 70	5/30	5/29	5/28	5/27	5/25	5/31	5/30	5/29
Yom ha-Zikkaron	(8.36), 131	5/11	5/1	4/18	5/8	4/28	4/14	5/4	4/25
Yom Kippur	(8.30), 128	10/12	9/30	9/19	10/9	9/28	9/16	10/5	9/25

Holiday	Func., page	2024	2025	2026	2027	2028	2029	2030	2031
Advent Sunday	(2.42), 70	12/1	11/30	11/29	11/28	12/3	12/2	12/1	11/30
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none							
Birth of the Bāb	(16.13), 278	11/2	10/22	11/10	10/30	10/19	11/7	10/28	10/17
Birthday of Rama	(20.61), 369	4/17	4/6	3/26	4/15	4/3	4/22	4/12	4/1
Chinese New Year	(19.26), 322	2/10	1/29	2/17	2/6	1/26	2/13	2/3	1/23
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	11/2	10/22	11/10	10/30	11/17	11/7	10/27	11/15
Dragon Festival	(19.27), 324	6/10	5/31	6/19	6/9	5/28	6/16	6/5	6/24
Easter	(9.3), 148	3/31	4/20	4/5	3/28	4/16	4/1	4/21	4/13
Easter (Astronomical)	(18.9), 292	3/31	4/20	4/5	3/28	4/16	4/1	4/21	4/13
Easter (Orthodox)	(9.1), 146	5/5	4/20	4/12	5/2	4/16	4/8	4/28	4/13
Epiphany	(2.43), 71	1/7	1/5	1/4	1/3	1/2	1/7	1/6	1/5
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/21	3/20	3/20	3/20	3/21
Feast of Ridvān	(16.12), 277	4/20	4/20	4/20	4/21	4/20	4/20	4/20	4/21
Friday the 13th (first)	(2.45), 71	9/13	6/13	2/13	8/13	10/13	4/13	9/13	6/13
Great Night of Shiva	(20.60), 369	3/8	2/26	2/15	3/6	2/23	2/11	3/2	2/20
Hanukkah (first day)	(8.43), 134	12/26	12/15	12/5	12/25	12/13	12/2	12/21	12/10
Hindu Lunar New Year	(20.53), 365	4/9	3/30	3/19	4/7	3/27	3/16	4/3	3/24
Icelandic Summer	(6.2), 100	4/25	4/24	4/23	4/22	4/20	4/19	4/25	4/24
Icelandic Winter	(6.3), 100	10/26	10/25	10/24	10/23	10/21	10/27	10/26	10/25
Kajeng Keliwon (first)	(12.16), 190	1/9	1/3	1/13	1/8	1/3	1/12	1/7	1/2
Losar	(21.9), 381	2/10	2/28	2/18	2/7	2/26	2/14	3/5	2/22
Mawlid	(7.6), 109	9/16	9/5	8/26	8/15	8/3	7/24	7/13	7/2
Mesha Samkrānti (date)	(20.51), 364	4/13	4/14	4/14	4/14	4/13	4/14	4/14	4/14
Nowruz	(15.11), 265	3/20	3/21	3/21	3/21	3/20	3/20	3/21	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/12	3/31	3/21	3/10	3/28	3/17	3/6	3/25
Passover	(8.31), 129	4/23	4/13	4/2	4/22	4/11	3/31	4/18	4/8
Passover Eve (Classical)	(18.25), 298	3/25	4/13	4/3	3/23	4/10	3/30	3/19	4/7
Pentecost	(9.4), 152	5/19	6/8	5/24	5/16	6/4	5/20	6/9	6/1
Purim	(8.33), 129	3/24	3/14	3/3	3/23	3/12	3/1	3/19	3/9
Qīngmíng	(19.28), 324	4/4	4/4	4/5	4/5	4/4	4/4	4/5	4/5
Sacred Wednesday (first)	(20.65), 370	9/11	2/5	7/22	4/14	1/5	2/21	8/7	1/1
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/21	3/13	3/2	3/22	3/9	2/28	3/18	3/6
Tishah be-Av	(8.35), 130	8/13	8/3	7/23	8/12	8/1	7/22	8/8	7/29
Tumpek (first)	(12.17), 190	2/3	1/18	1/3	1/23	1/8	1/27	1/12	2/1
U.S. Daylight Saving End	(2.40), 70	11/3	11/2	11/1	11/7	11/5	11/4	11/3	11/2
U.S. Daylight Saving Start	(2.39), 70	3/10	3/9	3/8	3/14	3/12	3/11	3/10	3/9
U.S. Election Day	(2.38), 70	11/5	11/4	11/3	11/2	11/7	11/6	11/5	11/4
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/2	9/1	9/7	9/6	9/4	9/3	9/2	9/1
U.S. Memorial Day	(2.37), 70	5/27	5/26	5/25	5/31	5/29	5/28	5/27	5/26
Yom ha-Zikkaron	(8.36), 131	5/13	4/30	4/21	5/11	5/1	4/18	5/7	4/28
Yom Kippur	(8.30), 128	10/12	10/2	9/21	10/11	9/30	9/19	10/7	9/27

Advent Sunday Bahá'í New Year (16.10), 277 3/21 3/21 3/21 3/21 3/21 3/21 3/21 3/21	039 1/27 3/21 one 1/2 4/2 1/2 1/7 1/7 1/7 1/17 1/10 1/10 1/2 1/2
Bahá'í New Year (16.10), 277 3/21 3/22 3/21 3/22 3/21 3/22 3/21 3/22 3/21 3/22 4/13 4/2 3/25 4/13 4/2 3/25 4/13 4/2 3/2 3/2 3/2 <td>33/21 oone))/19 4/2 1/24 2/25 1/7 1/17 1/17 4/10 4/10 1/2</td>	33/21 oone))/19 4/2 1/24 2/25 1/7 1/17 1/17 4/10 4/10 1/2
Birkath ha-Hama Birth of the Bāb Birth of the Bāb Birthday of Rama (20.61), 369 4/18 4/8 3/28 4/16 4/5 3/25 4/13 4/5 1/2	one 0)/19 1/24 1/24 1/7 1/7 1/17 1/17 1/10 1/10 1/10 1/10
Birth of the Bāb Birthday of Rama (20.61), 369 4/18 4/8 3/28 4/16 4/5 3/25 4/13 4/2 Chinese New Year (19.26), 322 2/11 1/31 2/19 2/8 1/28 2/15 2/4 1/2 Christmas (2.41), 70 12/25 12/2	0/19 4/2 1/24 2/25 1/7 1/17 1/17 5/27 4/10 4/17
Birthday of Rama Chinese New Year Christmas (20.61), 369 4/18 4/8 3/28 4/16 4/5 3/25 4/13 4/16 Christmas (2.41), 70 12/25	1/2 1/24 2/25 1/7 1/7 1/17 5/27 1/10 1/10 1/17
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Losar (21.9), 381 2/12 3/2 2/19 2/9 2/27 2/15 3/6 2 Mawlid (7.6), 109 6/21 6/10 5/30 5/20 5/8 4/28 4/17 4	1/5
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	1/6
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Advent Sunday	(2.42), 70	12/2	12/1	11/30	11/29	11/27	12/3	12/2	12/1
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none							
Birth of the Bāb	(16.13), 278	11/6	10/26	10/15	11/3	10/22	11/10	10/30	10/20
Birthday of Rama	(20.61), 369	4/20	4/9	3/29	4/17	4/6	3/27	4/15	4/4
Chinese New Year	(19.26), 322	2/12	2/1	1/22	2/10	1/30	2/17	2/6	1/26
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	11/5	10/25	11/13	11/2	10/21	11/9	10/30	10/20
Dragon Festival	(19.27), 324	6/14	6/3	6/22	6/11	5/31	6/19	6/8	5/29
Easter	(9.3), 148	4/1	4/21	4/6	3/29	4/17	4/9	3/25	4/14
Easter (Astronomical)	(18.9), 292	4/1	4/21	4/6	3/29	4/17	4/2	3/25	4/14
Easter (Orthodox)	(9.1), 146	5/6	4/21	4/13	5/3	4/24	4/9	4/29	4/21
Epiphany	(2.43), 71	1/8	1/6	1/5	1/4	1/3	1/8	1/7	1/6
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/21	3/20	3/20	3/20	3/21
Feast of Ridvān	(16.12), 277	4/20	4/20	4/20	4/21	4/20	4/20	4/20	4/21
Friday the 13th (first)	(2.45), 71	1/13	9/13	6/13	2/13	5/13	1/13	4/13	9/13
Great Night of Shiva	(20.60), 369	3/11	3/1	2/18	3/9	2/27	2/15	3/5	2/22
Hanukkah (first day)	(8.43), 134	11/30	12/18	12/8	12/27	12/15	12/4	12/24	12/13
Hindu Lunar New Year	(20.53), 365	4/12	4/1	3/22	4/10	3/30	3/19	4/7	3/27
Icelandic Summer	(6.2), 100	4/19	4/25	4/24	4/23	4/21	4/20	4/19	4/25
Icelandic Winter	(6.3), 100	10/27	10/26	10/25	10/24	10/22	10/21	10/27	10/26
Kajeng Keliwon (first)	(12.16), 190	1/15	1/9	1/4	1/14	1/9	1/3	1/13	1/8
Losar	(21.9), 381	2/13	3/3	2/21	2/10	2/29	2/17	2/6	2/25
Mawlid	(7.6), 109	3/26	3/15	3/4	2/22	2/11	1/31	1/20	1/9
Mesha Samkrānti (date)	(20.51), 364	4/14	4/14	4/14	4/14	4/14	4/14	4/14	4/14
Nowruz	(15.11), 265	3/20	3/20	3/21	3/21	3/20	3/20	3/21	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/15	4/3	3/23	3/13	3/31	3/20	3/10	3/28
Passover	(8.31), 129	3/29	4/16	4/5	4/25	4/12	4/2	4/21	4/11
Passover Eve (Classical)	(18.25), 298	3/28	4/16	4/5	3/26	4/13	4/2	3/23	4/10
Pentecost	(9.4), 152	5/20	6/9	5/25	5/17	6/5	5/28	5/13	6/2
Purim	(8.33), 129	2/28	3/17	3/6	3/26	3/13	3/3	3/22	3/12
Qīngmíng	(19.28), 324	4/4	4/4	4/4	4/5	4/4	4/4	4/4	4/5
Sacred Wednesday (first)	(20.65), 370	3/21	5/8	1/29	3/18	none	5/24	2/14	4/3
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	2/27	3/14	3/5	3/25	3/10	3/2	3/21	3/11
Tishah be-Av	(8.35), 130	7/19	8/6	7/27	8/16	8/2	7/23	8/12	8/1
Tumpek (first)	(12.17), 190	2/4	1/19	1/4	1/24	1/9	1/28	1/13	2/2
U.S. Daylight Saving End	(2.40), 70	11/4	11/3	11/2	11/1	11/6	11/5	11/4	11/3
U.S. Daylight Saving Start	(2.39), 70	3/11	3/10	3/9	3/8	3/13	3/12	3/11	3/10
U.S. Election Day	(2.38), 70	11/6	11/5	11/4	11/3	11/8	11/7	11/6	11/5
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/3	9/2	9/1	9/7	9/5	9/4	9/3	9/2
U.S. Memorial Day	(2.37), 70	5/28	5/27	5/26	5/25	5/30	5/29	5/28	5/27
Yom ha-Zikkaron	(8.36), 131	4/17	5/6	4/23	5/13	5/2	4/19	5/9	4/30
Yom Kippur	(8.30), 128	9/17	10/5	9/24	10/14	10/1	9/21	10/10	9/30

Holiday	Func., page	2048	2049	2050	2051	2052	2053	2054	2055
Advent Sunday	(2.42), 70	11/29	11/28	11/27	12/3	12/1	11/30	11/29	11/28
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none							
Birth of the Bāb	(16.13), 278	11/7	10/28	10/17	11/5	10/24	11/11	11/1	10/21
Birthday of Rama	(20.61), 369	4/22	4/11	3/31	4/19	4/7	3/28	4/16	4/6
Chinese New Year	(19.26), 322	2/14	2/2	1/23	2/11	2/1	2/19	2/8	1/28
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali		11/7	10/27	11/15	11/4	10/23	11/11	10/31	10/21
	(20.57), 368	'	6/4			,		,	,
Dragon Festival Easter	(19.27), 324	6/15	,	6/23	6/13	6/1	6/20	6/10	5/30
	(9.3), 148	4/5	4/18	4/10	4/2	4/21	4/6	3/29	4/18
Easter (Astronomical)	(18.9), 292	4/5	4/25	4/10	4/2	4/21	4/6	3/29	4/18
Easter (Orthodox)	(9.1), 146	4/5	4/25	4/17	5/7	4/21	4/13	5/3	4/18
Epiphany	(2.43), 71	1/5	1/3	1/2	1/8	1/7	1/5	1/4	1/3
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/21	3/20	3/20	3/20	3/21
Feast of Ridvān	(16.12), 277	4/20	4/20	4/20	4/21	4/20	4/20	4/20	4/21
Friday the 13th (first)	(2.45), 71	3/13	8/13	5/13	1/13	9/13	6/13	2/13	8/13
Great Night of Shiva	(20.60), 369	2/12	3/2	2/20	3/11	2/28	2/16	3/7	2/24
Hanukkah (first day)	(8.43), 134	11/30	12/20	12/10	11/29	12/16	12/6	12/26	12/15
Hindu Lunar New Year	(20.53), 365	4/14	4/3	3/23	4/11	3/31	3/21	4/9	3/29
Icelandic Summer	(6.2), 100	4/23	4/22	4/21	4/20	4/25	4/24	4/23	4/22
Icelandic Winter	(6.3), 100	10/24	10/23	10/22	10/28	10/26	10/25	10/24	10/23
Kajeng Keliwon (first)	(12.16), 190	1/3	1/12	1/7	1/2	1/12	1/6	1/1	1/11
Losar	(21.9), 381	2/14	3/4	2/22	2/12	3/2	2/19	2/8	2/27
Mawlid	(7.6), 109	12/18	12/7	11/27	11/16	11/4	10/25	10/14	10/4
Mesha Saṃkrānti (date)	(20.51), 364	4/14	4/14	4/14	4/14	4/14	4/14	4/14	4/14
Nowruz	(15.11), 265	3/20	3/20	3/21	3/21	3/20	3/20	3/21	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/16	3/6	3/25	3/14	4/1	3/22	3/11	3/30
Passover	(8.31), 129	3/29	4/17	4/7	3/28	4/14	4/3	4/23	4/13
Passover Eve (Classical)	(18.25), 298	3/29	3/19	4/7	3/27	4/14	4/4	3/24	4/12
Pentecost	(9.4), 152	5/24	6/6	5/29	5/21	6/9	5/25	5/17	6/6
Purim	(8.33), 129	2/28	3/18	3/8	2/26	3/15	3/4	3/24	3/14
Qīngmíng	(19.28), 324	4/4	4/4	4/4	4/5	4/4	4/4	4/4	4/5
Sacred Wednesday (first)	(20.65), 370	none	2/10	3/30	9/13	none	2/26	4/15	1/6
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	2/27	3/17	3/7	2/23	3/14	3/3	3/23	3/11
Tishah be-Av	(8.35), 130	7/19	8/8	7/28	7/18	8/4	7/24	8/13	8/3
Tumpek (first)	(12.17), 190	1/18	1/2	1/22	1/7	1/27	1/11	1/31	1/16
U.S. Daylight Saving End	(2.40), 70	11/1	11/7	11/6	11/5	11/3	11/2	11/1	11/7
U.S. Daylight Saving Start		3/8	3/14	3/13	3/12	3/10	3/9	3/8	3/14
U.S. Election Day	(2.38), 70	11/3	11/2	11/8	11/7	11/5	11/4	11/3	11/2
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/7	9/6	9/5	9/4	9/2	9/1	9/7	9/6
U.S. Memorial Day	(2.37), 70	5/25	5/31	5/30	5/29	5/27	5/26	5/25	5/31
Yom ha-Zikkaron	(8.36), 131	4/15	5/5	4/26	4/17	5/1	4/22	5/12	5/3
Yom Kippur	(8.30), 128	9/17	10/6	9/26	9/16	10/3	9/22	10/12	10/2

Holiday	Func., page	2056	2057	2058	2059	2060	2061	2062	2063
Advent Sunday	(2.42), 70	12/3	12/2	12/1	11/30	11/28	11/27	12/3	12/2
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none							
Birth of the Bāb	(16.13), 278	11/8	10/29	10/18	11/6	10/25	10/14	11/2	10/23
Birthday of Rama	(20.61), 369	3/25	4/13	4/2	4/21	4/9	3/29	4/17	4/7
Chinese New Year	(19.26), 322	2/15	2/4	1/24	2/12	2/2	1/21	2/9	1/29
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	11/8	10/29	11/17	11/6	10/25	11/13	11/2	10/22
Dragon Festival	(19.27), 324	6/17	6/6	6/25	6/14	6/3	6/22	6/11	6/1
Easter	(9.3), 148	4/2	4/22	4/14	3/30	4/18	4/10	3/26	4/15
Easter (Astronomical)	(18.9), 292	4/2	3/25	4/14	3/30	4/18	4/10	3/26	4/15
Easter (Orthodox)	(9.1), 146	4/9	4/29	4/14	5/4	4/25	4/10	4/30	4/22
Epiphany	(2.43), 71	1/2	1/7	1/6	1/5	1/4	1/2	1/8	1/7
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/20	3/20	3/20	3/20	3/20
Feast of Ridvān	(16.12), 277	4/20	4/20	4/20	4/20	4/20	4/20	4/20	4/20
Friday the 13th (first)	(2.45), 71	10/13	4/13	9/13	6/13	2/13	5/13	1/13	4/13
Great Night of Shiva	(20.60), 369	2/13	3/3	2/21	3/12	3/1	2/18	3/9	2/26
Hanukkah (first day)	(8.43), 134	12/3	12/22	12/11	11/30	12/18	12/8	12/27	12/16
Hindu Lunar New Year	(20.53), 365	3/17	4/4	3/25	4/13	4/1	3/22	4/10	3/30
Icelandic Summer	(6.2), 100	4/20	4/19	4/25	4/24	4/22	4/21	4/20	4/19
Icelandic Winter	(6.3), 100	10/21	10/27	10/26	10/25	10/23	10/22	10/21	10/27
Kajeng Keliwon (first)	(12.16), 190	1/6	1/15	1/10	1/5	1/15	1/9	1/4	1/14
Losar	(21.9), 381	2/16	3/6	2/23	2/13	3/3	2/21	2/10	3/1
Mawlid	(7.6), 109	9/22	9/11	9/1	8/21	8/9	7/30	7/19	7/8
Mesha Samkrānti (date)	(20.51), 364	4/14	4/14	4/14	4/15	4/14	4/14	4/14	4/15
Nowruz	(15.11), 265	3/20	3/20	3/21	3/21	3/20	3/20	3/20	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/18	3/7	3/26	3/16	4/3	3/23	3/13	4/1
Passover	(8.31), 129	4/1	4/19	4/9	3/29	4/15	4/5	4/25	4/14
Passover Eve (Classical)	(18.25), 298	3/31	3/20	4/8	3/29	4/16	4/5	3/26	4/14
Pentecost	(9.4), 152	5/21	6/10	6/2	5/18	6/6	5/29	5/14	6/3
Purim	(8.33), 129	3/2	3/20	3/10	2/27	3/16	3/6	3/26	3/15
Qīngmíng	(19.28), 324	4/4	4/4	4/4	4/5	4/4	4/4	4/4	4/5
Sacred Wednesday (first)	(20.65), 370	2/23	8/8	1/2	6/18	8/4	4/27	1/18	11/28
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/1	3/19	3/7	2/26	3/15	3/3	3/23	3/14
Tishah be-Av	(8.35), 130	7/23	8/9	7/30	7/20	8/5	7/26	8/15	8/5
Tumpek (first)	(12.17), 190	1/1	1/20	1/5	1/25	1/10	1/29	1/14	2/3
U.S. Daylight Saving End	(2.40), 70	11/5	11/4	11/3	11/2	11/7	11/6	11/5	11/4
U.S. Daylight Saving Start	(2.39), 70	3/12	3/11	3/10	3/9	3/14	3/13	3/12	3/11
U.S. Election Day	(2.38), 70	11/7	11/6	11/5	11/4	11/2	11/8	11/7	11/6
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/4	9/3	9/2	9/1	9/6	9/5	9/4	9/3
U.S. Memorial Day	(2.37), 70	5/29	5/28	5/27	5/26	5/31	5/30	5/29	5/28
Yom ha-Zikkaron	(8.36), 131	4/19	5/8	4/29	4/16	5/4	4/25	5/15	5/2
Yom Kippur	(8.30), 128	9/20	10/8	9/28	9/17	10/4	9/24	10/14	10/3

Holiday	Func., page	2064	2065	2066	2067	2068	2069	2070	2071
Advent Sunday	(2.42), 70	11/30	11/29	11/28	11/27	12/2	12/1	11/30	11/29
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none	4/8	none	none	none	none	none	none
Birth of the Bāb	(16.13), 278	11/10	10/30	10/20	11/8	10/27	10/16	11/4	10/24
Birthday of Rama	(20.61), 369	3/26	4/14	4/4	4/22	4/10	3/31	4/19	4/8
Chinese New Year	(19.26), 322	2/17	2/5	1/26	2/14	2/3	1/23	2/11	1/31
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	11/9	10/30	10/19	11/7	10/27	11/14	11/3	10/24
Dragon Festival	(19.27), 324	6/19	6/8	5/28	6/16	6/4	6/23	6/13	6/2
Easter	(9.3), 148	4/6	3/29	4/11	4/3	4/22	4/14	3/30	4/19
Easter (Astronomical)	(18.9), 292	4/6	3/29	4/11	4/3	4/22	4/7	3/30	4/19
Easter (Astronomical) Easter (Orthodox)	(9.1), 146	4/13	4/26	4/18	4/10	4/29	4/14	5/4	4/19
Epiphany	(2.43), 71	1/6	1/4	1/3	1/2	1/8	1/6	1/5	1/4
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/20	3/20	3/20	3/20	3/20
Feast of Ridvān	(16.11), 277	4/20	4/20	4/20	4/20	4/20	4/20	4/20	4/20
Friday the 13th (first)	(2.45), 71	6/13	2/13	8/13	5/13	1/13	9/13	6/13	2/13
Great Night of Shiva	(20.60), 369	2/15	3/5	2/22	2/12	3/2	2/19	3/10	2/28
Hanukkah (first day)	(8.43), 134	12/4	12/23	12/13	12/2	12/19	12/9	11/28	12/17
Hindu Lunar New Year	(20.53), 365	3/18	4/6	3/26	4/14	4/3	3/23	4/11	4/1
Icelandic Summer	(6.2), 100	4/24	4/23	4/22	4/21	4/19	4/25	4/24	4/23
Icelandic Winter	(6.2), 100	10/25	10/24	10/23	10/22	10/27	10/26	10/25	10/24
Kajeng Keliwon (first)	(12.16), 190	1/9	1/3	1/13	1/8	1/3	1/12	1/7	1/2
Losar	(21.9), 381	2/18	2/6	2/25	2/14	3/4	2/22	2/11	3/2
Mawlid	(7.6), 109	6/27	6/16	6/6	5/26	5/14	5/4	4/23	4/12
Mesha Samkrānti (date)	1 ' ' '	4/14	4/14	4/14	4/15	4/14	4/14	4/14	4/12
Nowruz	(20.51), 364 (15.11), 265	3/20	3/20	3/20	3/21	3/20	3/20	3/20	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/20	3/20	3/28	3/17	3/20 4/4	3/25	3/14	4/2
Passover	(8.31), 129	4/1	3/9 4/21	4/10	3/31	4/17	4/6	3/27	4/14
Passover Eve (Classical)		4/1	3/22	4/10	3/30	4/17	4/7	,	4/14
Pentecost	(18.25), 298 (9.4), 152	5/25	5/17	5/30	5/22	6/10	6/2	3/27 5/18	6/7
Purim	(8.33), 129	3/23	3/22	3/11	3/22	3/18	3/7	2/25	3/15
Qīngmíng	(19.28), 324	4/4	4/4	4/4	4/5	4/4	4/4	4/4	4/5
Sacred Wednesday (first)	1 ' ' '	3/26	,	11/24	3/23	5/9	1/30	,	4/8
Sh'ela	(20.65), 370 (8.37), 131	12/5	1/14 12/5	12/5	12/6	12/5	12/5	none 12/5	12/6
Ta'anit Esther	(8.34), 130	2/28	3/19	3/10	2/28	3/15	3/6	2/24	3/12
Tishah be-Av	(8.35), 130	7/22	8/11		7/21	8/7	7/28	,	8/4
Tumpek (first)	` ''	l '	1/3	8/1 1/23	1/8	1/28	1/12	7/17 2/1	,
1 ' '	(12.17), 190	1/19	'	' '	,	,	'	,	1/17
U.S. Daylight Saving End U.S. Daylight Saving Start	(2.40), 70 (2.39), 70	11/2 3/9	11/1 3/8	11/7 3/14	11/6 3/13	11/4 3/11	11/3 3/10	11/2 3/9	11/1 3/8
	1 ' ''	l '	'		,	,	'	,	,
U.S. Election Day	(2.38), 70	11/4	11/3	11/2	11/8	11/6 7/4	11/5	11/4	11/3
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	,	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/1	9/7 5/25	9/6	9/5 5/20	9/3	9/2	9/1 5/26	9/7 5/25
U.S. Memorial Day	(2.37), 70	5/26	5/25	5/31	5/30	5/28	5/27	5/26	5/25
Yom ha-Zikkaron	(8.36), 131	4/21	5/11	4/28	4/19	5/7	4/24	4/15	5/4
Yom Kippur	(8.30), 128	9/20	10/10	9/29	9/19	10/6	9/25	9/15	10/3

Holiday	Func., page	2072	2073	2074	2075	2076	2077	2078	2079
Advent Sunday	(2.42), 70	11/27	12/3	12/2	12/1	11/29	11/28	11/27	12/3
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none							
Birth of the Bāb	(16.13), 278	11/11	11/1	10/21	11/9	10/29	10/18	11/6	10/26
Birthday of Rama	(20.61), 369	3/28	4/16	4/5	3/25	4/12	4/1	4/20	4/9
Chinese New Year	(19.26), 322	2/19	2/7	1/27	2/15	2/5	1/24	2/12	2/2
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	11/11	10/31	10/21	11/9	10/28	11/16	11/5	10/25
Dragon Festival	(19.27), 324	6/20	6/10	5/30	6/17	6/6	6/24	6/14	6/4
Easter	(9.3), 148	4/10	3/26	4/15	4/7	4/19	4/11	4/3	4/23
Easter (Astronomical)	(18.9), 292	4/10	3/26	4/15	4/7	3/22	4/11	4/3	4/23
Easter (Orthodox)	(9.1), 146	4/10	4/30	4/22	4/7	4/26	4/18	5/8	4/23
Epiphany	(2.43), 71	1/3	1/8	1/7	1/6	1/5	1/3	1/2	1/8
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/20	3/20	3/20	3/20	3/20
Feast of Ridvān	(16.12), 277	4/20	4/20	4/20	4/20	4/20	4/20	4/20	4/20
Friday the 13th (first)	(2.45), 71	5/13	1/13	4/13	9/13	3/13	8/13	5/13	1/13
Great Night of Shiva	(20.60), 369	2/17	3/6	2/24	2/13	3/3	2/21	3/12	3/1
Hanukkah (first day)	(8.43), 134	12/5	12/25	12/14	12/2	12/21	12/11	11/30	12/18
Hindu Lunar New Year	(20.53), 365	3/20	4/8	3/28	3/17	4/4	3/25	4/13	4/2
Icelandic Summer	(6.2), 100	4/21	4/20	4/19	4/25	4/23	4/22	4/21	4/20
Icelandic Winter	(6.3), 100	10/22	10/21	10/27	10/26	10/24	10/23	10/22	10/28
Kajeng Keliwon (first)	(12.16), 190	1/12	1/6	1/1	1/11	1/6	1/15	1/10	1/5
Losar	(21.9), 381	2/19	2/7	2/26	2/16	3/6	2/23	2/13	3/4
Mawlid	(7.6), 109	4/1	3/21	3/11	2/28	2/17	2/6	1/26	1/15
Mesha Samkrānti (date)	(20.51), 364	4/14	4/14	4/14	4/15	4/14	4/14	4/14	4/15
Nowruz	(15.11), 265	3/20	3/20	3/20	3/21	3/20	3/20	3/20	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/22	3/11	3/29	3/18	3/7	3/26	3/16	4/4
Passover	(8.31), 129	4/3	4/22	4/12	3/31	4/18	4/8	3/29	4/16
Passover Eve (Classical)	(18.25), 298	4/4	3/24	4/11	3/31	3/20	4/8	3/29	4/17
Pentecost	(9.4), 152	5/29	5/14	6/3	5/26	6/7	5/30	5/22	6/11
Purim	(8.33), 129	3/4	3/23	3/13	3/1	3/19	3/9	2/27	3/17
Qīngmíng	(19.28), 324	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Sacred Wednesday (first)	(20.65), 370	5/25	2/15	none	9/18	2/12	3/31	9/14	1/11
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/3	3/22	3/12	2/28	3/18	3/8	2/24	3/16
Tishah be-Av	(8.35), 130	7/24	8/13	8/2	7/21	8/9	7/29	7/19	8/6
Tumpek (first)	(12.17), 190	1/2	1/21	1/6	1/26	1/11	1/30	1/15	2/4
U.S. Daylight Saving End	(2.40), 70	11/6	11/5	11/4	11/3	11/1	11/7	11/6	11/5
U.S. Daylight Saving Start	(2.39), 70	3/13	3/12	3/11	3/10	3/8	3/14	3/13	3/12
U.S. Election Day	(2.38), 70	11/8	11/7	11/6	11/5	11/3	11/2	11/8	11/7
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.36), 69	9/5	9/4	9/3	9/2	9/7	9/6	9/5	9/4
U.S. Memorial Day	(2.37), 70	5/30	5/29	5/28	5/27	5/25	5/31	5/30	5/29
Yom ha-Zikkaron	(8.36), 131	4/20	5/10	5/1	4/17	5/6	4/27	4/18	5/3
Yom Kippur	(8.30), 128	9/22	10/11	10/1	9/19	10/7	9/27	9/17	10/5

Holiday	Func., page	2080	2081	2082	2083	2084	2085	2086	2087
Advent Sunday	(2.42), 70	12/1	11/30	11/29	11/28	12/3	12/2	12/1	11/30
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none	none	none	none	none	none	none	none
Birth of the Bāb	(16.13), 278	10/14	11/2	10/23	11/11	10/30	10/20	11/7	10/27
Birthday of Rama	(20.61), 369	3/29	4/17	4/7	3/27	4/14	4/3	4/22	4/11
Chinese New Year	(19.26), 322	1/22	2/9	1/29	2/17	2/6	1/26	2/14	2/3
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	11/12	11/1	10/22	11/10	10/30	11/18	11/7	10/27
Dragon Festival	(19.27), 324	6/22	6/11	6/1	6/19	6/7	5/27	6/15	6/5
Easter	(9.3), 148	4/7	3/30	4/19	4/4	3/26	4/15	3/31	4/20
Easter (Astronomical)	(18.9), 292	4/7	3/30	4/19	4/4	3/26	4/15	3/31	4/20
Easter (Astronomical) Easter (Orthodox)	(9.1), 146	4/14	5/4	4/19	4/11	4/30	4/15	4/7	4/27
Epiphany	(2.43), 71	1/7	1/5	1/4	1/3	1/2	1/7	1/6	1/5
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/20	3/20	3/20	3/20	3/20
Feast of Ridvān	(16.11), 277	4/20	4/20	4/20	4/20	4/20	4/20	4/20	4/20
Friday the 13th (first)	(2.45), 71	9/13	6/13	2/13	8/13	10/13	4/13	9/13	6/13
Great Night of Shiva	(20.60), 369	2/18	3/8	2/25	2/15	3/5	2/22	2/12	3/3
Hanukkah (first day)	(8.43), 134	12/7	12/27	12/16	12/5	12/23	12/12	12/1	12/20
Hindu Lunar New Year	(20.53), 365	3/22	4/10	3/30	3/19	4/6	3/26	4/14	4/4
Icelandic Summer	(6.2), 100	4/25	4/24	4/23	4/22	4/20	4/19	4/25	4/24
Icelandic Winter	(6.2), 100	10/26	10/25	10/24	10/23	10/21	10/27	10/26	10/25
Kajeng Keliwon (first)	(12.16), 190	1/15	1/9	1/4	1/14	1/9	1/3	1/13	1/8
Losar	(21.9), 381	2/21	2/9	2/28	2/17	2/7	2/25	2/14	3/5
Mawlid	(7.6), 109	1/5	12/13	12/3	11/22	$\frac{2}{11/11}$	10/31	10/20	10/10
Mesha Samkrānti (date)	(20.51), 364	4/14	4/14	4/14	4/15	4/14	4/14	4/14	4/15
Nowruz	(15.11), 265	3/20	3/20	3/20	3/21	3/20	3/20	3/20	3/21
Observ. Hebrew 1 Nisan	(18.22), 297	3/23	3/12	3/31	3/20	3/8	3/27	3/17	3/7
Passover	(8.31), 129	4/4	4/24	4/14	4/3	4/20	4/10	3/30	4/17
Passover Eve (Classical)	(18.25), 298	4/5	3/25	4/13	4/2	3/21	4/9	3/30	3/20
Pentecost	(9.4), 152	5/26	5/18	6/7	5/23	5/14	6/3	5/19	6/8
Purim	(8.33), 129	3/20	3/25	3/15	3/4	3/21	3/11	2/28	3/18
Qīngmíng	(19.28), 324	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Sacred Wednesday (first)	(20.65), 370	2/28	9/10	1/7	6/23	8/9	1/3	6/19	3/12
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/4	3/24	3/12	3/3	3/20	3/8	2/27	3/17
Tishah be-Av	(8.35), 130	7/25	8/14	8/4	7/25	8/10	7/31	7/21	8/7
Tumpek (first)	(12.17), 190	1/20	1/4	1/24	1/9	1/29	1/13	2/2	1/18
U.S. Daylight Saving End	(2.40), 70	11/3	11/2	11/1	11/7	11/5	11/4	11/3	11/2
U.S. Daylight Saving Start		3/10	3/9	3/8	3/14	3/12	3/11	3/10	3/9
U.S. Election Day	(2.39), 70	11/5	11/4	11/3	11/2	11/7	11/6	11/5	11/4
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.32), 69	9/2	9/1	9/7	9/6	9/4	9/3	9/2	9/1
U.S. Memorial Day	(2.30), 09	5/27	5/26	5/25	5/31	5/29	5/28	5/27	5/26
Yom ha-Zikkaron	(8.36), 131	4/23	5/13	5/4	4/21	5/9	4/30	4/17	5/6
Yom Kippur	(8.30), 131	9/23	10/13	10/3	9/22	10/9	9/29	9/18	10/6
тош кирриі	(0.50), 120	1/43	10/13	10/3	1/44	10/2	1/43	2/10	10/0

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Advent Sunday	(2.42), 70	11/28	11/27	12/3	12/2	11/30	11/29	11/28	11/27
Bahá'í New Year	(16.10), 277	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21
Birkath ha-Hama	(8.38), 131	none	none	none	none	none	4/8	none	none
Birth of the Bāb	(16.13), 278	10/16	11/3	10/24	11/12	11/1	10/21	11/9	10/29
Birthday of Rama	(20.61), 369	3/30	4/18	4/8	3/29	4/16	4/5	3/25	4/12
Chinese New Year	(19.26), 322	1/24	2/10	1/30	2/18	2/7	1/27	2/15	2/5
Christmas	(2.41), 70	12/25	12/25	12/25	12/25	12/25	12/25	12/25	12/25
Christmas (Coptic)	(4.9), 93	1/8	1/7	1/7	1/7	1/8	1/7	1/7	1/7
Christmas (Orthodox)	(3.25), 85	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
Diwali	(20.57), 368	11/14	11/3	10/23	11/12	10/31	10/21	11/9	10/29
Dragon Festival	(19.27), 324	6/23	6/13	6/2	6/21	6/9	5/29	6/17	6/6
Easter	(9.3), 148	4/11	4/3	4/16	4/8	3/30	4/12	4/4	4/24
Easter (Astronomical)	(18.9), 292	4/11	3/27	4/16	4/8	3/30	4/12	4/4	3/27
Easter (Astronomical) Easter (Orthodox)	(9.1), 146	4/18	5/1	4/23	4/8	4/27	4/19	4/11	4/24
Epiphany	(2.43), 71	1/4	1/2	1/8	1/7	1/6	1/4	1/3	1/2
Feast of Naw-Rūz	(16.11), 277	3/20	3/20	3/20	3/20	3/19	3/20	3/20	3/20
Feast of Ridvān	(16.11), 277	4/20	4/20	4/20	4/20	4/19	4/20	4/20	4/20
Friday the 13th (first)	(2.45), 71	2/13	5/13	1/13	4/13	6/13	2/13	8/13	5/13
Great Night of Shiva	(20.60), 369	2/20	3/10	2/27	2/16	3/6	2/23	2/13	3/4
Hanukkah (first day)	(8.43), 134	12/8	11/28	12/17	12/6	12/24	12/14	12/3	12/21
Hindu Lunar New Year	(20.53), 365	3/23	4/11	4/1	3/21	4/7	3/28	3/17	4/5
Icelandic Summer	(6.2), 100	4/22	4/21	4/20	4/19	4/24	4/23	4/22	4/21
Icelandic Winter	(6.2), 100	10/23	10/22	10/21	10/27	10/25	10/24	10/23	10/22
Kajeng Keliwon (first)	(12.16), 190	1/3	1/12	1/7	1/2	1/12	1/6	1/1	1/11
Losar	(21.9), 381	2/23	2/11	3/2	2/19	2/8	2/26	2/16	3/7
Mawlid	(7.6), 109	9/28	9/17	9/7	8/27	8/15	8/5	7/25	7/15
Mesha Samkrānti (date)	(20.51), 364	4/14	4/14	4/15	4/15	4/14	4/14	4/15	4/15
Nowruz	(15.11), 265	3/20	3/20	3/20	3/20	3/20	3/20	3/20	3/20
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Pentecost	(9.4), 152	5/30	5/22	6/4	5/27	5/18	5/31	5/23	6/12
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Qīngmíng	(19.28), 324	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Sacred Wednesday (first)	(20.65), 370	4/28	none	11/29	3/28	5/14	none	3/24	5/11
Sh'ela	(8.37), 131	12/5	12/5	12/5	12/6	12/5	12/5	12/5	12/6
Ta'anit Esther	(8.34), 130	3/4	2/23	3/15	3/1	3/20	3/11	3/1	3/17
Tishah be-Av	(8.35), 130	7/27	7/17	8/6	7/24	8/12	8/2	7/22	8/9
Tumpek (first)	(12.17), 190	1/3	1/22	1/7	1/27	1/12	1/31	1/16	1/1
U.S. Daylight Saving End	(2.40), 70	11/7	11/6	11/5	11/4	11/2	11/1	11/7	11/6
U.S. Daylight Saving Start		3/14	3/13	3/12	3/11	3/9	3/8	3/14	3/13
U.S. Election Day	(2.38), 70	11/2	11/8	11/7	11/6	11/4	11/3	11/2	11/8
U.S. Independence Day	(2.32), 69	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
U.S. Labor Day	(2.32), 69	9/6	9/5	9/4	9/3	9/1	9/7	9/6	9/5
U.S. Memorial Day	(2.30), 09	5/31	5/30	5/29	5/28	5/26	5/25	5/31	5/30
Yom ha-Zikkaron	(8.36), 131	4/26	4/13	5/3	4/23	5/12	4/29	4/20	5/9
Yom Kippur	(8.30), 131	9/25	9/14	l '	9/22	10/11	9/30	9/20	10/8
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Christmas (Orthodox)			'	,		,	'	'	'	'
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Easter (Astronomical) (18.9), 292 4/8 3/31 4/20 4/12 3/28 4/17 4/9 3/2 Easter (Orthodox) (18.9), 292 4/8 3/31 4/20 4/12 3/28 4/17 4/9 3/2 Easter (Orthodox) (9.1), 146 4/15 5/5 4/27 4/12 5/2 4/24 4/9 4/2 Epiphany (2.43), 71 1/8 1/6 1/5 1/4 1/3 1/2 1/8 1/7 Feast of Naw-Rūz (16.11), 277 3/19 3/20 3/20 3/20 3/20 3/21 3/21 3/21 3/2 Feast of Ridvān (16.12), 277 4/19 4/20 4/20 4/20 4/20 4/20 4/21 4/21 4/2 Friday the 13th (first) (2.45), 71 1/13 9/13 6/13 2/13 8/13 5/13 1/13 4/11 Great Night of Shiva (20.60), 369 2/22 3/12 3/1 2/18 3/9 2/26 2/15 3/7 Hanukkah (first day) (8.43), 134 12/10 11/30 12/19 12/7 12/27 12/17 12/6 12/2 Hindu Lunar New Year Icelandic Summer (6.2), 100 4/19 4/25 4/24 4/23 4/22 4/21 4/20 4/11 Icelandic Winter (6.3), 100 10/27 10/26 10/25 10/24 10/23 10/22 10/21 10/22 Io/24 Io/39 Mawlid (7.6), 109 1/6 1/15 1/10 1/5 1/15 1/10 1/5 1/15 1/10 Iosar (21.9), 381 2/24 2/13 3/3 2/20 2/10 2/28 2/18 3/9 Mawlid (7.6), 109 7/3 6/22 6/12 6/1 5/21 5/11 4/30 4/20 Mesha Samkrānti (date) (20.51), 364 4/14 4/14 4/14 4/15 4/15 4/15 4/15 4/1			'	'						
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המבין יבין

Abraham ben David of Posquieres: Strictures to Maimonides' Mishneh Torah, Gifts to the Poor (circa 1195)

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Astronomical clock (number 3) designed and made in Norway by Rasmus Sørnes. Finished in 1954, it computes a large number of time/astronomical values including sidereal time, sunsets and sunrises, Gregorian date, solar and lunar eclipses, precession, tides, the positions of the planets, and many other things. (Courtesy of the Borgarsyssel Museum, Sarpsborg, Norway.)