

Notes on Moon Calendar 1/21/2015

I used Sun and Moon data from http://aa.usno.navy.mil/data/docs/RS_OneYear.php. I chose "District of Columbia" for location, partly because that's what came up on the screen. (For comparison, times in Sperryville, VA differ by 3-5 minutes.) I converted the data to adjust for daylight savings time.

I used homemade moon graphics rather than the little moon pictures I've used in the past because it lets me display more information in the calendar. In doing this I discovered that a) the length of the month varies and b) sometimes there are 29 days between new moons, and sometimes there are 30.

I got astronomical events from <http://www.seasky.org/astronomy/astronomy-calendar-2014.html>

I got conjunctions from [http://en.wikipedia.org/wiki/List_of_conjunctions_\(astronomy\)](http://en.wikipedia.org/wiki/List_of_conjunctions_(astronomy))

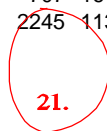
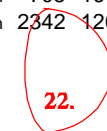
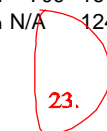
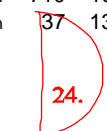
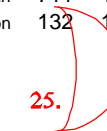
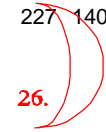
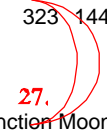
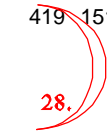
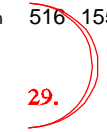
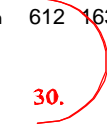
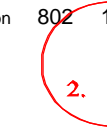
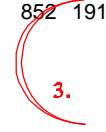

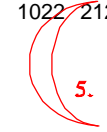
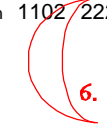
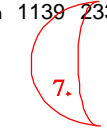
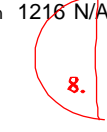
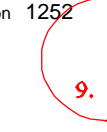


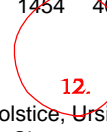





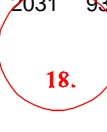



I added selected holidays I found in <http://www.timeanddate.com/holidays/us/2014>. Any rhyme or reason to my selection of holidays and observances is purely coincidental.

I tried to check for errors but it is always possible that one or more slipped by. If you find errors, please contact me at mjroney@starpower.net.

Clear Skies!

Milt Roney


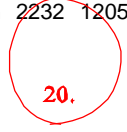
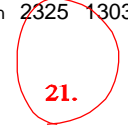
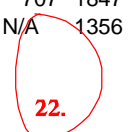
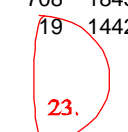
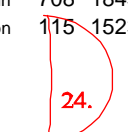
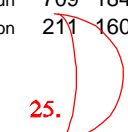
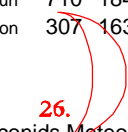
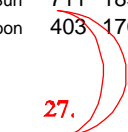
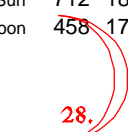

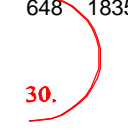
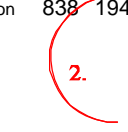
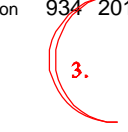
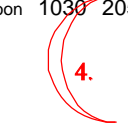
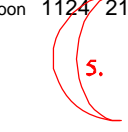
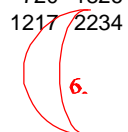
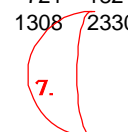
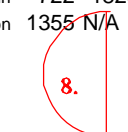
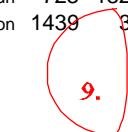
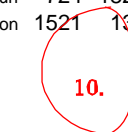
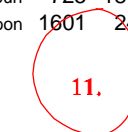
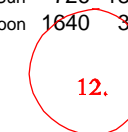
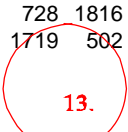
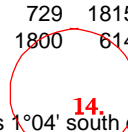
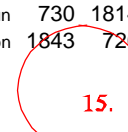
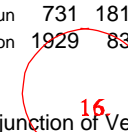
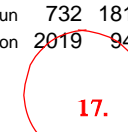
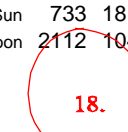
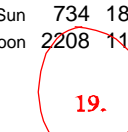
December 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: "N/A" Means moon does not rise (or does not set) on that day. Sun and Moon data: http://aa.usno.navy.mil/data/docs/RS_OneYear.php (Data for District of Columbia) Compiled by Milt Roney 1/15		1 Rise Set Sun 707 1647 Moon 2245 1134 	2 Rise Set Sun 708 1646 Moon 2342 1208 	3 Rise Set Sun 709 1646 Moon N/A 1240 	4 Rise Set Sun 710 1646 Moon 37 1309 	5 Rise Set Sun 711 1646 Moon 132 1339 
6 Rise Set Sun 712 1646 Moon 227 1409 	7 Rise Set Sun 713 1646 Moon 323 1441 Conjunction Moon and Venus, 	8 Rise Set Sun 714 1646 Moon 419 1516 	9 Rise Set Sun 715 1646 Moon 516 1554 	10 Rise Set Sun 716 1646 Moon 612 1637 	11 Rise Set Sun 716 1646 Moon 708 1725 1. New Moon	12 Rise Set Sun 717 1646 Moon 802 1818 
13 Rise Set Sun 718 1647 Moon 852 1916 	14 Rise Set Sun 719 1647 Moon 939 2018 	15 Rise Set Sun 719 1647 Moon 1022 2122 	16 Rise Set Sun 720 1647 Moon 1102 2227 	17 Rise Set Sun 721 1648 Moon 1139 2333 	18 Rise Set Sun 721 1648 Moon 1216 N/A 	19 Rise Set Sun 722 1648 Moon 1252 40 
Geminids Meteor Shower	Last Day of Chanukah					
20 Rise Set Sun 722 1649 Moon 1330 148 	21 Rise Set Sun 723 1649 Moon 1410 256 	22 Rise Set Sun 723 1650 Moon 1454 403 	23 Rise Set Sun 724 1650 Moon 1542 510 	24 Rise Set Sun 724 1651 Moon 1635 613 	25 Rise Set Sun 725 1652 Moon 1732 711 	26 Rise Set Sun 725 1652 Moon 1831 804 
		Dec Solstice, Ursids Meteor Shower		The Prophet's Birthday, Christmas Eve	Christmas Day, Full Moon	
27 Rise Set Sun 725 1653 Moon 1931 850 	28 Rise Set Sun 726 1654 Moon 2031 931 	29 Rise Set Sun 726 1654 Moon 2129 1007 	30 Rise Set Sun 726 1655 Moon 2226 1040 	31 Rise Set Sun 726 1656 Moon 2321 1111 		
				New Year's Eve		

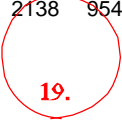
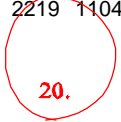
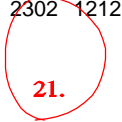
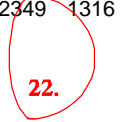
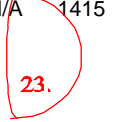


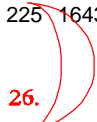

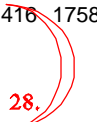

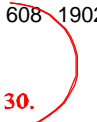


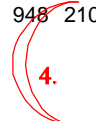
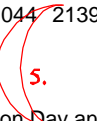
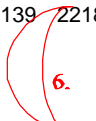
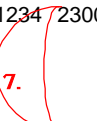
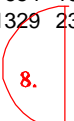
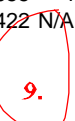
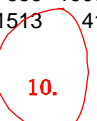

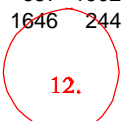
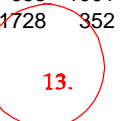
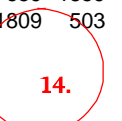
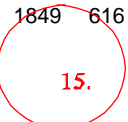
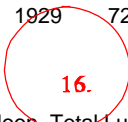

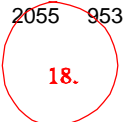
November 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
1 Rise Set Sun 635 1708 Moon 2205 1137 20. End Daylight Saving Time, All Saints Day	2 Rise Set Sun 636 1707 Moon 2303 1221 21.	3 Rise Set Sun 637 1706 Moon N/A 1300 22. Election Day, Venus 42' south of Mars	4 Rise Set Sun 638 1705 Moon N/A 1335 23.	5 Rise Set Sun 639 1704 Moon 56 1407 24. Taurids Meteor Shower	6 Rise Set Sun 641 1703 Moon 151 1438 25.	7 Rise Set Sun 642 1702 Moon 246 1507 26.	
8 Rise Set Sun 643 1701 Moon 341 1537 27.	9 Rise Set Sun 644 1700 Moon 436 1608 28.	10 Rise Set Sun 645 1659 Moon 532 1641 29.	11 Rise Set Sun 646 1658 Moon 628 1717 1. Veterans Day, New Moon	12 Rise Set Sun 647 1657 Moon 725 1757 2.	13 Rise Set Sun 648 1656 Moon 820 1841 3.	14 Rise Set Sun 649 1655 Moon 914 1931 4.	
15 Rise Set Sun 651 1655 Moon 1006 2025 5.	16 Rise Set Sun 652 1654 Moon 1054 2123 6.	17 Rise Set Sun 653 1653 Moon 1139 2225 7. Leonids Meteor Shower	18 Rise Set Sun 654 1652 Moon 1220 2329 8.	19 Rise Set Sun 655 1652 Moon 1259 N/A 9.	20 Rise Set Sun 656 1651 Moon 1337 35 10.	21 Rise Set Sun 657 1651 Moon 1414 143 11.	
22 Rise Set Sun 658 1650 Moon 1452 252 12.	23 Rise Set Sun 659 1649 Moon 1533 402 13.	24 Rise Set Sun 700 1649 Moon 1616 513 14.	25 Rise Set Sun 701 1649 Moon 1704 622 15. Mercury 2°46' south of Saturn, Full Moon	26 Rise Set Sun 702 1648 Moon 1756 729 16. Thanksgiving Day	27 Rise Set Sun 703 1648 Moon 1851 830 17.	28 Rise Set Sun 704 1647 Moon 1949 926 18.	
29 Rise Set Sun 705 1647 Moon 2049 1014 19. First Sunday of Advent	30 Rise Set Sun 706 1647 Moon 2147 1057 20.	Notes: "N/A" Means moon does not rise (or does not set) on that day. Daylight Savings time ends on November 2. Rise and set times are adjusted where applicable.					

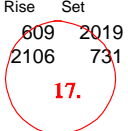
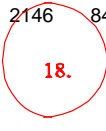
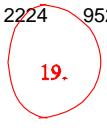
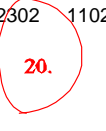
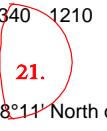

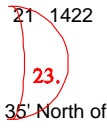
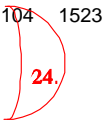




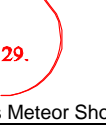

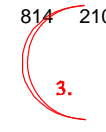
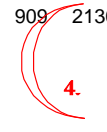
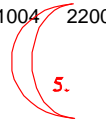
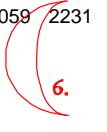
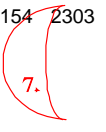

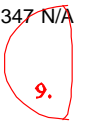
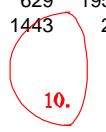
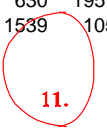
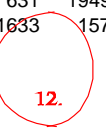
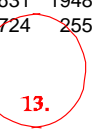
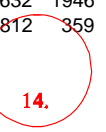
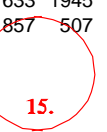
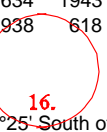

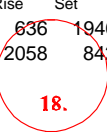
October 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: "N/A" Means moon does not rise (or does not set) on that day. Rise and set times are adjusted for Daylight Savings Time where applicable.				1 Rise Set Sun 704 1851 Moon 2142 1101 	2 Rise Set Sun 705 1850 Moon 2232 1205 	3 Rise Set Sun 706 1848 Moon 2325 1303 
4 Rise Set Sun 707 1847 Moon N/A 1356 	5 Rise Set Sun 708 1845 Moon 19 1442 	6 Rise Set Sun 708 1843 Moon 115 1523 	7 Rise Set Sun 709 1842 Moon 211 1600 	8 Rise Set Sun 710 1840 Moon 307 1634 Draconids Meteor Shower 	9 Rise Set Sun 711 1839 Moon 403 1705 	10 Rise Set Sun 712 1837 Moon 458 1735 
11 Rise Set Sun 713 1836 Moon 553 1805 	12 Rise Set Sun 714 1834 Moon 648 1835 	13 Rise Set Sun 715 1833 Moon 743 1907 1. New Moon	14 Rise Set Sun 716 1831 Moon 838 1941 	15 Rise Set Sun 717 1830 Moon 934 2018 	16 Rise Set Sun 718 1829 Moon 1030 2058 	17 Rise Set Sun 719 1827 Moon 1124 2144 
Uranus at Opposition	Columbus Day			Islamic New Year		Mars 24' north of ' Jupiter
18 Rise Set Sun 720 1826 Moon 1217 2234 	19 Rise Set Sun 721 1824 Moon 1308 2330 	20 Rise Set Sun 722 1823 Moon 1355 N/A 	21 Rise Set Sun 723 1822 Moon 1439 30 	22 Rise Set Sun 724 1820 Moon 1521 134 	23 Rise Set Sun 725 1819 Moon 1601 241 	24 Rise Set Sun 726 1818 Moon 1640 351 
			Orionids Meteor Shower			
25 Rise Set Sun 728 1816 Moon 1719 502 	26 Rise Set Sun 729 1815 Moon 1800 614 Venus 1°04' south of 'Jupiter 	27 Rise Set Sun 730 1814 Moon 1843 726 	28 Rise Set Sun 731 1813 Moon 1929 837 Conjunction of Venus, Mars, and Jupiter 	29 Rise Set Sun 732 1811 Moon 2019 946 	30 Rise Set Sun 733 1810 Moon 2112 1049 	31 Rise Set Sun 734 1809 Moon 2208 1146 Halloween 
		Full Moon				

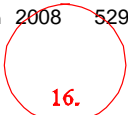
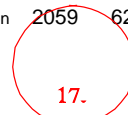
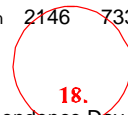
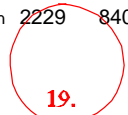

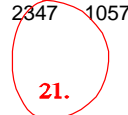
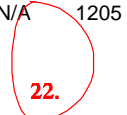
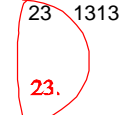
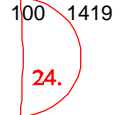
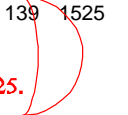
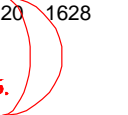



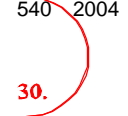
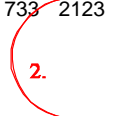
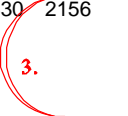

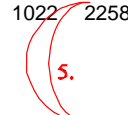
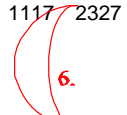
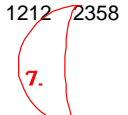

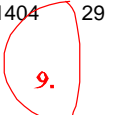
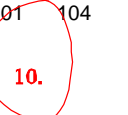


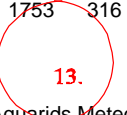

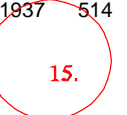
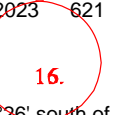
September 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Rise Set Sun 637 1939 Moon 2138 954  19. Neptune at Opposition	2 Rise Set Sun 638 1937 Moon 2219 1104  20.	3 Rise Set Sun 639 1936 Moon 2302 1212  21.	4 Rise Set Sun 640 1934 Moon 2349 1316  22.	5 Rise Set Sun 640 1933 Moon N/A 1415  23.
6 Rise Set Sun 641 1931 Moon 38 1510  24.	7 Rise Set Sun 642 1929 Moon 131 1559  25. Labor Day	8 Rise Set Sun 643 1928 Moon 225 1643  26.	9 Rise Set Sun 644 1926 Moon 320 1723  27.	10 Rise Set Sun 645 1925 Moon 416 1758  28.	11 Rise Set Sun 646 1923 Moon 512 1831  29. Patriot Day	12 Rise Set Sun 647 1922 Moon 608 1902  30.
13 Rise Set Sun 648 1920 Moon 703 1932 1. New Mn, Partial Solar Eclipse, G'Parents Day	14 Rise Set Sun 648 1918 Moon 758 2002  2. Rosh Hashana	15 Rise Set Sun 649 1917 Moon 853 2033  3.	16 Rise Set Sun 650 1915 Moon 948 2105  4.	17 Rise Set Sun 651 1914 Moon 1044 2139  5. Constitution Day and Citizenship Day	18 Rise Set Sun 652 1912 Moon 1139 2218  6.	19 Rise Set Sun 653 1910 Moon 1234 2300  7.
20 Rise Set Sun 654 1909 Moon 1329 2348  8.	21 Rise Set Sun 655 1907 Moon 1422 N/A  9.	22 Rise Set Sun 656 1906 Moon 1513 41  10.	23 Rise Set Sun 656 1904 Moon 1601 140  11. Yom Kippur, September Equinox	24 Rise Set Sun 657 1902 Moon 1646 244  12. Eid al-Adha	25 Rise Set Sun 658 1901 Moon 1728 352  13.	26 Rise Set Sun 659 1859 Moon 1809 503  14.
27 Rise Set Sun 700 1858 Moon 1849 616  15.	28 Rise Set Sun 701 1856 Moon 1929 729  16. Full Moon, Total Lunar Eclipse	29 Rise Set Sun 702 1854 Moon 2011 841  17.	30 Rise Set Sun 703 1853 Moon 2055 953  18.	Notes: "N/A" Means moon does not rise (or does not set) on that day. Rise and set times are adjusted for Daylight Savings Time where applicable.		

August 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Notes: "N/A" Means moon does not rise (or does not set) on that day. Rise and set times are adjusted for Daylight Savings Time.					1 Rise Set Sun 609 2019 Moon 2106 731 
2 Rise Set Sun 610 2018 Moon 2146 841 	3 Rise Set Sun 611 2017 Moon 2224 952 	4 Rise Set Sun 612 2016 Moon 2302 1102 	5 Rise Set Sun 612 2015 Moon 2340 1210 Mercury 8°11' North of Venus 	6 Rise Set Sun 613 2014 Moon N/A 1317 	7 Rise Set Sun 614 2013 Moon 21 1422 Mercury 35' North of Jupiter 	8 Rise Set Sun 615 2012 Moon 104 1523 
9 Rise Set Sun 616 2011 Moon 151 1621 	10 Rise Set Sun 617 2009 Moon 241 1713 	11 Rise Set Sun 618 2008 Moon 334 1801 	12 Rise Set Sun 619 2007 Moon 429 1844 Perseids Meteor Shower 	13 Rise Set Sun 620 2006 Moon 525 1922 Perseids Meteor Shower 	14 Rise Set Sun 621 2004 Moon 622 1957 New Moon 1.	15 Rise Set Sun 621 2003 Moon 718 2029 
16 Rise Set Sun 622 2002 Moon 814 2100 	17 Rise Set Sun 623 2000 Moon 909 2130 	18 Rise Set Sun 624 1959 Moon 1004 2200 	19 Rise Set Sun 625 1958 Moon 1059 2231 	20 Rise Set Sun 626 1956 Moon 1154 2303 	21 Rise Set Sun 627 1955 Moon 1250 2339 	22 Rise Set Sun 628 1954 Moon 1347 N/A 
23 Rise Set Sun 629 1952 Moon 1443 20 	24 Rise Set Sun 630 1951 Moon 1539 105 	25 Rise Set Sun 631 1949 Moon 1633 157 	26 Rise Set Sun 631 1948 Moon 1724 255 	27 Rise Set Sun 632 1946 Moon 1812 359 	28 Rise Set Sun 633 1945 Moon 1857 507 	29 Rise Set Sun 634 1943 Moon 1938 618 Venus 9°25' South of Mars, Full Moon 
30 Rise Set Sun 635 1942 Moon 2019 730 	31 Rise Set Sun 636 1940 Moon 2058 842 					

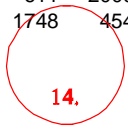
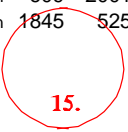
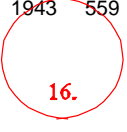

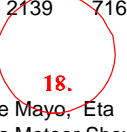
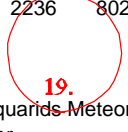
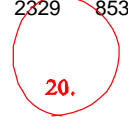
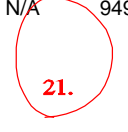
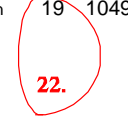














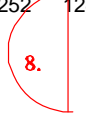

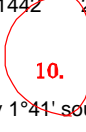
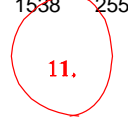
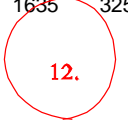
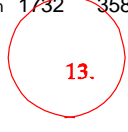
July 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: "N/A" Means moon does not rise (or does not set) on that day. Rise and set times are adjusted for Daylight Savings Time.			1 Rise Set Sun 546 2037 Moon 2008 529  16. Venus 24' South of Jupiter Full Moon	2 Rise Set Sun 547 2037 Moon 2059 629  17.	3 Rise Set Sun 547 2037 Moon 2146 733  18. Independence Day observed	4 Rise Set Sun 548 2037 Moon 2229 840  19. Independence Day
5 Rise Set Sun 549 2037 Moon 2309 948  20.	6 Rise Set Sun 549 2036 Moon 2347 1057  21.	7 Rise Set Sun 550 2036 Moon N/A 1205  22.	8 Rise Set Sun 550 2036 Moon 23 1313  23.	9 Rise Set Sun 551 2036 Moon 100 1419  24.	10 Rise Set Sun 552 2035 Moon 139 1525  25.	11 Rise Set Sun 552 2035 Moon 220 1628  26.
12 Rise Set Sun 553 2034 Moon 304 1729  27.	13 Rise Set Sun 554 2034 Moon 353 1826  28.	14 Rise Set Sun 554 2033 Moon 445 1918  29. New Horizons at Pluto	15 Rise Set Sun 555 2033 Moon 540 2004  30.	16 Rise Set Sun 556 2032 Moon 636 2046 1. Mercury 8' south of Mars, New Moon	17 Rise Set Sun 556 2032 Moon 733 2123  2.	18 Rise Set Sun 557 2031 Moon 830 2156  3. End of Ramadan
19 Rise Set Sun 558 2030 Moon 927 2228  4.	20 Rise Set Sun 559 2030 Moon 1022 2258  5.	21 Rise Set Sun 600 2029 Moon 1117 2327  6.	22 Rise Set Sun 600 2028 Moon 1212 2358  7.	23 Rise Set Sun 601 2028 Moon 1308 N/A  8.	24 Rise Set Sun 602 2027 Moon 1404 29  9.	25 Rise Set Sun 603 2026 Moon 1501 104  10.
26 Rise Set Sun 604 2025 Moon 1559 142  11.	27 Rise Set Sun 605 2024 Moon 1657 226  12.	28 Rise Set Sun 605 2023 Moon 1753 316  13. Delta Aquarids Meteor Shower	29 Rise Set Sun 606 2022 Moon 1847 412  14. Delta Aquarids Meteor Shower	30 Rise Set Sun 607 2021 Moon 1937 514  15.	31 Rise Set Sun 608 2020 Moon 2023 621  16. Venus 6°26' south of Jupiter, Full Moon	



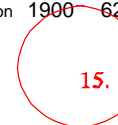
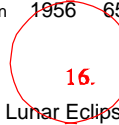
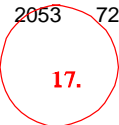
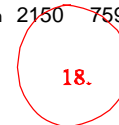
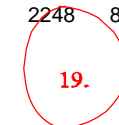
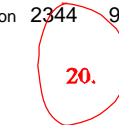
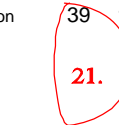
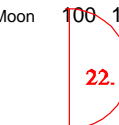
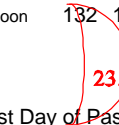
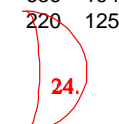
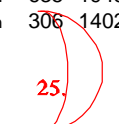
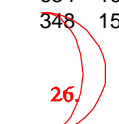
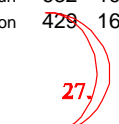

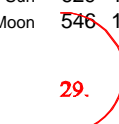
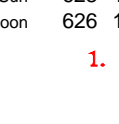
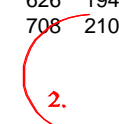
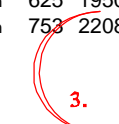
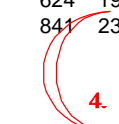
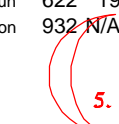
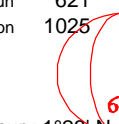
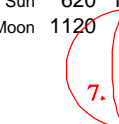
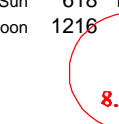
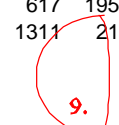
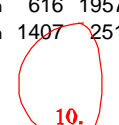
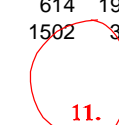
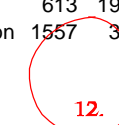
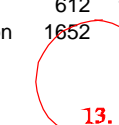
June 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
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7 Rise Set Sun 543 2031 Moon 29 1051 <div style="text-align: center; color: red; font-size: 2em;">21.</div>	8 Rise Set Sun 543 2032 Moon 100 1158 <div style="text-align: center; color: red; font-size: 2em;">22.</div>	9 Rise Set Sun 543 2032 Moon 107 1306 <div style="text-align: center; color: red; font-size: 2em;">23.</div>	10 Rise Set Sun 542 2033 Moon 144 1413 <div style="text-align: center; color: red; font-size: 2em;">24.</div>	11 Rise Set Sun 542 2033 Moon 220 1520 <div style="text-align: center; color: red; font-size: 2em;">25.</div>	12 Rise Set Sun 542 2034 Moon 258 1627 <div style="text-align: center; color: red; font-size: 2em;">26.</div>	13 Rise Set Sun 542 2034 Moon 338 1734 <div style="text-align: center; color: red; font-size: 2em;">27.</div>		
14 Rise Set Sun 542 2035 Moon 421 1838 <div style="text-align: center; color: red; font-size: 2em;">28.</div> Flag Day	15 Rise Set Sun 542 2035 Moon 508 1938 <div style="text-align: center; color: red; font-size: 2em;">29.</div>	16 Rise Set Sun 542 2035 Moon 559 2034 <div style="text-align: center; color: red; font-size: 2em;">1.</div> New Moon	17 Rise Set Sun 542 2036 Moon 658 2124 <div style="text-align: center; color: red; font-size: 2em;">2.</div>	18 Rise Set Sun 543 2036 Moon 750 2209 <div style="text-align: center; color: red; font-size: 2em;">3.</div> Beginning of Ramadan	19 Rise Set Sun 543 2036 Moon 847 2248 <div style="text-align: center; color: red; font-size: 2em;">4.</div>	20 Rise Set Sun 543 2037 Moon 944 2324 <div style="text-align: center; color: red; font-size: 2em;">5.</div>		
21 Rise Set Sun 543 2037 Moon 1041 2356 <div style="text-align: center; color: red; font-size: 2em;">6.</div> June Solstice, Father's Day	22 Rise Set Sun 543 2037 Moon 1137 N/A <div style="text-align: center; color: red; font-size: 2em;">7.</div>	23 Rise Set Sun 544 2037 Moon 1232 27 <div style="text-align: center; color: red; font-size: 2em;">8.</div>	24 Rise Set Sun 544 2037 Moon 1327 56 <div style="text-align: center; color: red; font-size: 2em;">9.</div>	25 Rise Set Sun 544 2037 Moon 1423 126 <div style="text-align: center; color: red; font-size: 2em;">10.</div>	26 Rise Set Sun 544 2037 Moon 1519 157 <div style="text-align: center; color: red; font-size: 2em;">11.</div>	27 Rise Set Sun 545 2038 Moon 1617 230 <div style="text-align: center; color: red; font-size: 2em;">12.</div>		
28 Rise Set Sun 545 2038 Moon 1716 307 <div style="text-align: center; color: red; font-size: 2em;">13.</div>	29 Rise Set Sun 546 2037 Moon 1815 349 <div style="text-align: center; color: red; font-size: 2em;">14.</div>	30 Rise Set Sun 546 2037 Moon 1912 436 <div style="text-align: center; color: red; font-size: 2em;">15.</div>	Notes: "N/A" Means moon does not rise (or does not set) on that day. Rise and set times are adjusted for Daylight Savings Time where applicable.					

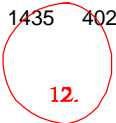
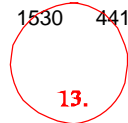
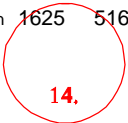
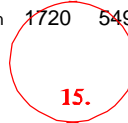
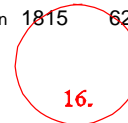


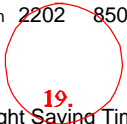
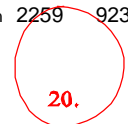
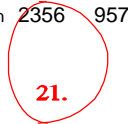
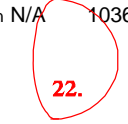

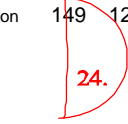
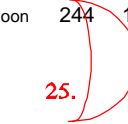
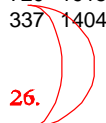
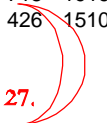
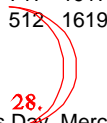


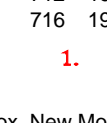
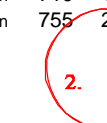
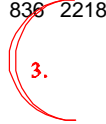
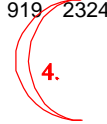

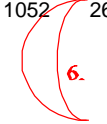
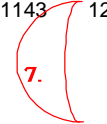
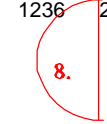
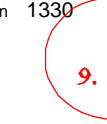
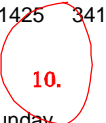
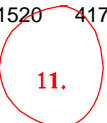
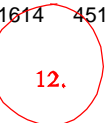
May 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
<p>Notes: "N/A" Means moon does not rise (or does not set) on that day.</p> <p>Rise and set times are adjusted for Daylight Savings Time.</p>						<p>1 Rise Set Sun 611 2000 Moon 1748 454</p>  <p>Law Day</p>	<p>2 Rise Set Sun 609 2001 Moon 1845 525</p> 
<p>3 Rise Set Sun 608 2002 Moon 1943 559</p> 	<p>4 Rise Set Sun 607 2003 Moon 2041 635</p>  <p>Full Moon</p>	<p>5 Rise Set Sun 606 2004 Moon 2139 716</p>  <p>Cinco de Mayo, Eta Aquarids Meteor Shower</p>	<p>6 Rise Set Sun 605 2005 Moon 2236 802</p>  <p>Eta Aquarids Meteor Shower</p>	<p>7 Rise Set Sun 604 2006 Moon 2329 853</p> 	<p>8 Rise Set Sun 603 2007 Moon N/A 949</p> 	<p>9 Rise Set Sun 602 2008 Moon 19 1049</p> 	
<p>10 Rise Set Sun 601 2009 Moon 105 1153</p>  <p>Mothers' Day</p>	<p>11 Rise Set Sun 600 2010 Moon 148 1259</p> 	<p>12 Rise Set Sun 559 2011 Moon 227 1406</p> 	<p>13 Rise Set Sun 558 2012 Moon 305 1515</p> 	<p>14 Rise Set Sun 557 2013 Moon 342 1624</p>  <p>Ascension Day</p>	<p>15 Rise Set Sun 556 2014 Moon 420 1733</p> 	<p>16 Rise Set Sun 555 2014 Moon 500 1841</p>  <p>Armed Forces Day</p>	
<p>17 Rise Set Sun 554 2015 Moon 542 1948</p> 	<p>18 Rise Set Sun 553 2016 Moon 628 2052</p> <p style="text-align: center;">1.</p> <p>New Moon</p>	<p>19 Rise Set Sun 553 2017 Moon 718 2151</p> 	<p>20 Rise Set Sun 552 2018 Moon 811 2245</p> 	<p>21 Rise Set Sun 551 2019 Moon 907 2332</p> 	<p>22 Rise Set Sun 550 2020 Moon 1003 N/A</p> 	<p>23 Rise Set Sun 550 2021 Moon 1100 13</p>  <p>Saturn at Opposition</p>	
<p>24 Rise Set Sun 549 2021 Moon 1158 51</p>  <p>Pentecost, Shavuot</p>	<p>25 Rise Set Sun 548 2022 Moon 1252 124</p> 	<p>26 Rise Set Sun 548 2023 Moon 1347 155</p> 	<p>27 Rise Set Sun 547 2024 Moon 1442 225</p>  <p>Mercury 1°41' south of Mars</p>	<p>28 Rise Set Sun 547 2024 Moon 1538 255</p> 	<p>29 Rise Set Sun 546 2025 Moon 1635 325</p> 	<p>30 Rise Set Sun 546 2026 Moon 1732 358</p> 	

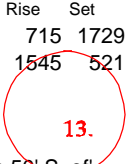
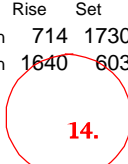
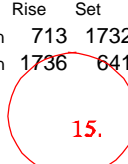
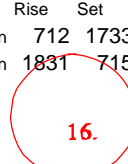
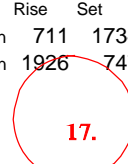
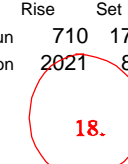
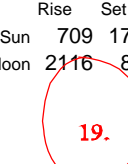
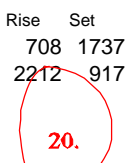
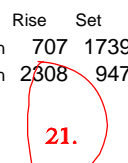
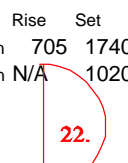
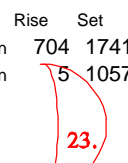
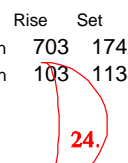
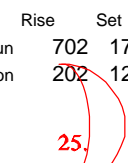
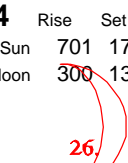
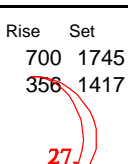
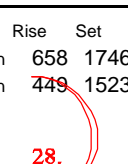
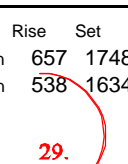
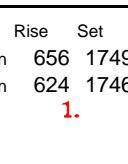
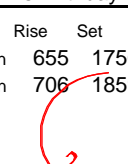
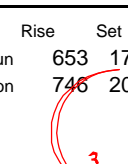
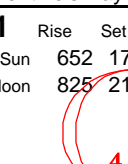
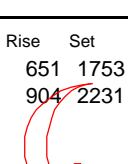
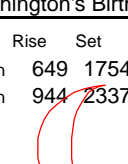
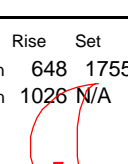
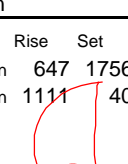
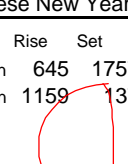
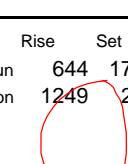
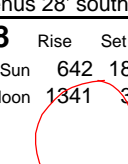
April 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: "N/A" Means moon does not rise (or does not set) on that day. Rise and set times are adjusted for Daylight Savings Time where applicable.			1 Rise Set Sun 653 1931 Moon 1709 522 	2 Rise Set Sun 652 1932 Moon 1805 552 	3 Rise Set Sun 650 1933 Moon 1900 622 	4 Rise Set Sun 649 1934 Moon 1956 653  Total Lunar Eclipse, Full Moon, Passover
5 Rise Set Sun 647 1935 Moon 2053 724 	6 Rise Set Sun 646 1936 Moon 2150 759 	7 Rise Set Sun 644 1937 Moon 2248 836 	8 Rise Set Sun 642 1938 Moon 2344 918  Mercury 31' south of 'Uran	9 Rise Set Sun 641 1939 Moon 239 1005 	10 Rise Set Sun 639 1940 Moon 100 1057 	11 Rise Set Sun 638 1941 Moon 132 1154  Last Day of Passover, Orthodox Holy Saturday
Easter Sunday	Easter Monday				Good Friday	
12 Rise Set Sun 636 1942 Moon 220 1256 	13 Rise Set Sun 635 1943 Moon 306 1402 	14 Rise Set Sun 634 1944 Moon 348 1510 	15 Rise Set Sun 632 1945 Moon 429 1620  Tax Day	16 Rise Set Sun 631 1946 Moon 507 1731  Emancipation Day	17 Rise Set Sun 629 1947 Moon 546 1843 	18 Rise Set Sun 628 1948 Moon 626 1953  New Moon
19 Rise Set Sun 626 1949 Moon 708 2102 	20 Rise Set Sun 625 1950 Moon 753 2208  Patriot's Day	21 Rise Set Sun 624 1951 Moon 841 2309 	22 Rise Set Sun 622 1952 Moon 932 N/A  Lyrids Meteor Shower	23 Rise Set Sun 621 1953 Moon 1025 5  Mercury 1°23' N of Mars, Lyrids Meteor Shower	24 Rise Set Sun 620 1954 Moon 1120 54  Arbor Day	25 Rise Set Sun 618 1955 Moon 1216 138 
26 Rise Set Sun 617 1956 Moon 1311 216 	27 Rise Set Sun 616 1957 Moon 1407 251 	28 Rise Set Sun 614 1958 Moon 1502 324 	29 Rise Set Sun 613 1958 Moon 1557 354 	30 Rise Set Sun 612 1959 Moon 1652 424 		



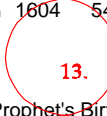
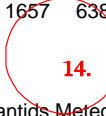
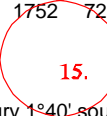

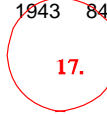
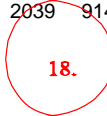
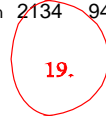
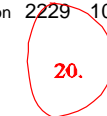
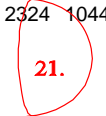
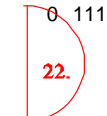
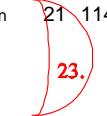
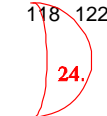
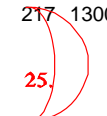
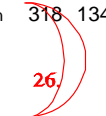
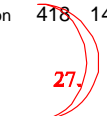

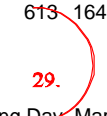
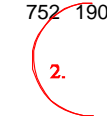


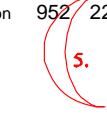
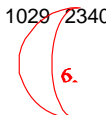
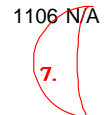
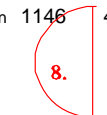
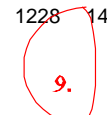
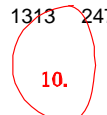
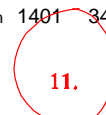
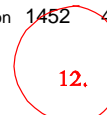
March 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 Rise Set Sun 641 1801 Moon 1435 402 	2 Rise Set Sun 639 1802 Moon 1530 441 	3 Rise Set Sun 638 1803 Moon 1625 516 	4 Rise Set Sun 637 1804 Moon 1720 549 Venus 6' north of 'Uranus 	5 Rise Set Sun 635 1805 Moon 1815 620 Full Moon 	6 Rise Set Sun 634 1806 Moon 1911 650 	7 Rise Set Sun 632 1807 Moon 2006 720 
8 Rise Set Sun 731 1908 Moon 2202 850 Daylight Saving Time starts 	9 Rise Set Sun 729 1909 Moon 2259 923 	10 Rise Set Sun 728 1910 Moon 2356 957 	11 Rise Set Sun 726 1911 Moon N/A 1036 Mars 17' north of 'Uranus 	12 Rise Set Sun 724 1912 Moon 53 1119 	13 Rise Set Sun 723 1913 Moon 149 1208 	14 Rise Set Sun 721 1914 Moon 244 1303 
15 Rise Set Sun 720 1915 Moon 337 1404 	16 Rise Set Sun 718 1916 Moon 426 1510 	17 Rise Set Sun 717 1917 Moon 512 1619 St. Pat's Day, Mercury 1°36' S of Neptune 	18 Rise Set Sun 715 1918 Moon 555 1731 	19 Rise Set Sun 714 1919 Moon 636 1844 	20 Rise Set Sun 712 1920 Moon 716 1957 Equinox, New Moon, Total Solar Eclipse 	21 Rise Set Sun 710 1921 Moon 755 2108 
22 Rise Set Sun 709 1922 Moon 836 2218 	23 Rise Set Sun 707 1923 Moon 919 2324 	24 Rise Set Sun 706 1924 Moon 1004 N/A 	25 Rise Set Sun 704 1925 Moon 1052 26 	26 Rise Set Sun 703 1926 Moon 1143 123 	27 Rise Set Sun 701 1927 Moon 1236 214 	28 Rise Set Sun 659 1928 Moon 1330 300 
29 Rise Set Sun 658 1929 Moon 1425 341 Palm Sunday 	30 Rise Set Sun 656 1930 Moon 1520 417 	31 Rise Set Sun 655 1931 Moon 1614 451 	Notes: "N/A" Means moon does not rise (or does not set) on that day. Daylight Savings Time begins on March 9, rise and set times are adjusted where applicable.			

February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 Rise Set Sun 715 1729 Moon 1545 521  Venus 50' S. of Neptune, Dawn at Ceres	2 Rise Set Sun 714 1730 Moon 1640 603  Groundhog Day	3 Rise Set Sun 713 1732 Moon 1736 641  Full Moon	4 Rise Set Sun 712 1733 Moon 1831 715  Rosa Parks Day	5 Rise Set Sun 711 1734 Moon 1926 747 	6 Rise Set Sun 710 1735 Moon 2021 817  Jupiter at Opposition	7 Rise Set Sun 709 1736 Moon 2116 847 
8 Rise Set Sun 708 1737 Moon 2212 917 	9 Rise Set Sun 707 1739 Moon 2308 947 	10 Rise Set Sun 705 1740 Moon N/A 1020 	11 Rise Set Sun 704 1741 Moon 5 1057 	12 Rise Set Sun 703 1742 Moon 103 1138  Lincoln's Birthday	13 Rise Set Sun 702 1743 Moon 202 1224 	14 Rise Set Sun 701 1744 Moon 300 1317  Valentine's Day
15 Rise Set Sun 700 1745 Moon 356 1417 	16 Rise Set Sun 658 1746 Moon 449 1523  Presidents' Day (Washington's Birthday)	17 Rise Set Sun 657 1748 Moon 538 1634  Shrove Tuesday/Mardi Gras	18 Rise Set Sun 656 1749 Moon 624 1746  Ash Wednesday, New Moon	19 Rise Set Sun 655 1750 Moon 706 1859  Chinese New Year	20 Rise Set Sun 653 1751 Moon 746 2012 	21 Rise Set Sun 652 1752 Moon 825 2123  Venus 28' south of 'Mars
22 Rise Set Sun 651 1753 Moon 904 2231  Conjunction of Venus and Mars	23 Rise Set Sun 649 1754 Moon 944 2337 	24 Rise Set Sun 648 1755 Moon 1026 N/A 	25 Rise Set Sun 647 1756 Moon 1111 40 	26 Rise Set Sun 645 1757 Moon 1159 137 	27 Rise Set Sun 644 1759 Moon 1249 231 	28 Rise Set Sun 642 1800 Moon 1341 319 
Notes: "N/A" Means moon does not rise (or does not set) on that day.						

January 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: "N/A" Means moon does not rise (or does not set) on that day. Moon graphics are close approximations Sun and Moon data: http://aa.usno.navy.mil/data/docs/RS_OneYear.php (Data for District of Columbia)			Compiled by Milt Roney 1/15			
				1 Rise Set Sun 727 1657 Moon 1427 354  11. New Year's Day	2 Rise Set Sun 727 1658 Moon 1514 453  12.	3 Rise Set Sun 727 1658 Moon 1604 548  13. The Prophet's Birthday, Quarantids
4 Rise Set Sun 727 1659 Moon 1657 638  14. Quadrantids Meteor Shower	5 Rise Set Sun 727 1700 Moon 1752 723  15. Mercury 1°40' south of Venus	6 Rise Set Sun 727 1701 Moon 1847 804  16. Epiphany	7 Rise Set Sun 727 1702 Moon 1943 840  17. Orthodox Christmas Day	8 Rise Set Sun 727 1703 Moon 2039 914  18.	9 Rise Set Sun 727 1704 Moon 2134 945  19.	10 Rise Set Sun 727 1705 Moon 2229 1015  20.
11 Rise Set Sun 726 1706 Moon 2324 1044  21.	12 Rise Set Sun 726 1707 Moon 0 1114  22.	13 Rise Set Sun 726 1708 Moon 21 1146  23.	14 Rise Set Sun 726 1709 Moon 118 1221  24. Orthodox New Year	15 Rise Set Sun 725 1710 Moon 217 1300  25.	16 Rise Set Sun 725 1711 Moon 318 1345  26.	17 Rise Set Sun 724 1712 Moon 418 1436  27.
18 Rise Set Sun 724 1713 Moon 517 1535  28.	19 Rise Set Sun 724 1714 Moon 613 1640  29. ML King Day, Mars 14' south of Neptune	20 Rise Set Sun 723 1716 Moon 705 1749 1. New Moon	21 Rise Set Sun 722 1717 Moon 752 1901  2.	22 Rise Set Sun 722 1718 Moon 835 2013  3.	23 Rise Set Sun 721 1719 Moon 914 2124  4.	24 Rise Set Sun 721 1720 Moon 952 2233  5.
25 Rise Set Sun 720 1721 Moon 1029 2340  6.	26 Rise Set Sun 719 1722 Moon 1106 N/A  7.	27 Rise Set Sun 719 1723 Moon 1146 45  8.	28 Rise Set Sun 718 1725 Moon 1228 148  9.	29 Rise Set Sun 717 1726 Moon 1313 247  10.	30 Rise Set Sun 716 1727 Moon 1401 343  11.	31 Rise Set Sun 715 1728 Moon 1452 434  12.