

# Astrodienst Ephemeris Tables for the year 1645

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

JANUARY 1645 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	<del>\</del>	Р	v	v	Ç	ę,	Day
S 1	6 43 44	11궁 4'34	15≈ 4	6 <b>ට</b> 10	26M56	21°R 9	21°R43	14 <b>Υ</b> 14	24MJ4	5 <b>₹</b> 6	4°R36	29°R23	1 <b>m</b> ) 5	8MJ30	25°R17	S 1
M 2	6 47 41	12° 5'46	28°19	7°46	28° 5	20耳52	21840	14°16	24°17	5° 8	4 <b>Ⅱ</b> 35	29°D22	1° 2	8°37	25 <b>Ⅱ</b> 13	M 2
T 3	6 51 37	13° 6'56	11 <b>) (</b> 46	9°22	29°15	20°35	21°37	14°18	24°20	5°10	4°34	$29\Omega 23$	0°58	8°44	25° 9	T 3
W 4	6 55 34	14° 8'06	25°25	10°59	0 <b>∡</b> 125	20°19	21°35	14°20	24°22	5°12	4°33	29°24	0°55	8°50	25° 5	W 4
T 5	6 59 30	15° 9'16	9 <b>Υ</b> 16	12°36	1°35	20° 4	21°33	14°22	24°25	5°13	4°32	29°R25	0°52	8°57	25° 2	T 5
F 6	7 3 27	16°10'25	23°19	14°13	2°45	19°50	21°31	14°24	24°28	5°15	4°31	29°25	0°49	9° 4	24°58	F 6
S 7	7 7 23	17°11'33	7 <b>8</b> 34	15°51	3°55	19°36	21°29	14°26	24°30	5°17	4°31	29°23	0°46	9°10	24°54	S 7
S 8	7 11 20	18°12'41	21°58	17°30	5° 5	19°23	21°27	14°29	24°33	5°19	4°30	29°19	0°43	9°17	24°51	S 8
M 9	7 15 16	19°13'48	6 <b>Ⅱ</b> 28	19° 9	6°15	19°11	21°26	14°31	24°35	5°21	4°29	29°14	0°39	9°24	24°47	M 9
T 10	7 19 13	20°14'54	20°58	20°48	7°26	19° 0	21°25	14°34	24°38	5°22	4°28	29° 8	0°36	9°31	24°44	T 10
W11	7 23 10	21°16'00	5922	22°28	8°36	18°49	21°24	14°37	24°40	5°24	4°27	29° 1	0°33	9°37	24°40	W11
T 12	7 27 6	22°17'05	19°34	24° 9	9°47	18°40	21°23	14°40	24°43	5°26	4°27	28°56	0°30	9°44	24°37	T 12
F 13	7 31 3	23°18'09	3 <b>Ω</b> 29	25°50	10°58	18°31	21°23	14°43	24°45	5°27	4°26	28°52	0°27	9°51	24°34	F 13
S 14	7 34 59	24°19'13	17° 2	27°31	12° 9	18°23	21°22	14°46	24°48	5°29	4°25	28°49	0°24	9°58	24°30	S 14
S 15	7 38 56	25°20'17	0 <b>m</b> 14	29°13	13°20	18°15	21°D22	14°49	24°50	5°31	4°25	28°D49	0°20	10° 4	24°27	S 15
M16	7 42 52	26°21'19	13° 3	0≈56	14°31	18° 9	21°22	14°52	24°52	5°32	4°24	28°50	0°17	10°11	24°24	M16
T 17	7 46 49	27°22'21	25°33	2°39	15°42	18° 3	21°22	14°55	24°54	5°34	4°23	28°51	0°14	10°18	24°21	T 17
W18	7 50 45	28°23'23	7 <b>≏</b> 46	4°22	16°53	17°58	21°23	14°59	24°56	5°35	4°23	28°53	0°11	10°24	24°18	W18
T 19	7 54 42	29°24'24	19°47	6° 6	18° 4	17°54	21°24	15° 2	24°59	5°37	4°22	28°55	0° 8	10°31	24°15	T 19
F 20	7 58 39	0≈25'25	1 <b>M</b> .41	7°50	19°16	17°51	21°25	15° 6	25° 1	5°38	4°22	28°R55	0° 4	10°38	24°12	F 20
S 21	8 2 3 5	1°26'25	13°32	9°34	20°27	17°49	21°26	15°10	25° 3	5°40	4°21	28°54	0° 1	10°45	24° 9	S 21
S 22	8 6 32	2°27'24	25°26	11°19	21°39	17°47	21°27	15°13	25° 5	5°41	4°20	28°52	29 <b>Ω</b> 58	10°51	24° 6	S 22
M23	8 10 28	3°28'23	7 <b>.₹</b> 27	13° 4	22°50	17°46	21°28	15°17	25° 7	5°43	4°20	28°49	29°55	10°58	24° 3	M23
T 24	8 14 25	4°29'21	19°39	14°49	24° 2	17°D46	21°30	15°21	25° 8	5°44	4°19	28°45	29°52	11° 5	24° 1	T 24
W25	8 18 21	5°30'18	2중 5	16°33	25°14	17°47	21°32	15°25	25°10	5°46	4°19	28°41	29°49	11°11	23°58	W25
T 26	8 22 18	6°31'14	14°47	18°18	26°26	17°48	21°34	15°29	25°12	5°47	4°18	28°37	29°45	11°18	23°55	T 26
F 27	8 26 15	7°32'10	27°44	20° 1	27°38	17°50	21°36	15°34	25°14	5°48	4°18	28°34	29°42	11°25	23°53	F 27
S 28	8 30 11	8°33'04	10≈59	21°44	28°49	17°53	21°39	15°38	25°15	5°50	4°18	28°32	29°39	11°32	23°50	S 28
S 29	8 34 8	9°33'57	24°28	23°26	0ට 1	17°57	21°42	15°43	25°17	5°51	4°17	28°D31	29°36	11°38	23°48	S 29
M30	8 38 4	10°34'49	8 <b>∺</b> 10	25° 7	<u>1°14</u>	18° 1	21°44	15°47	25°19	5°52	<u>4</u> °17	28°32	29°33	11°45	23°46	M30
T 31	8 42 1	11≈35'40	22 <b>米</b> 3	26≈46	2 <b>ට</b> 26	18 <b>I</b> 6	21848	15 <b>Y</b> 52	25 <b>M</b> 20	5 <b>₹</b> 53	4 <b>I</b> I16	$28\Omega 33$	29 <b>Ω</b> 30	11 <b>M</b> .52	23 <b>Ⅱ</b> 43	T 31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	dec	l decl	decl	decl	lat
S 1	23 s 1	15 s 8	1n16	24 s 50	1 s30	16s56	2n39	26n34	3n23	17n21	0 s55	3n17	2 s32	18 s37	0n15	19s38	1n35	9n49 11 s	28 11n4	2 11n 7	9 s 5 2	16n51	6 s33
M 2	22 56	11 59	0 6	24 50	1 35	17 13	2 37	26 33	3 23	17 20	0 55	3 18	2 32	18 38	0 15	19 39	1 35	9 49 11	28 11 4	3 11 8	9 53	16 51	6 33
T 3	22 50	8 11		24 48	1 39			26 32		17 20	0 54	3 19	2 31			19 39	1 35	9 49 11				16 51	6 33
W 4	22 44	3 54		24 44		17 46		26 31		17 19	0 54	3 20		18 39		19 39		9 49 11				16 51	6 33
T 5	22 37	0n38		24 39	1 46			26 30		17 19	0 54	3 21		18 40		19 39	1 35	9 49 11				16 51	6 33
F 6	22 30	5 12		24 33	1 50			26 29		17 19	0 54	3 22		18 40		19 40	1 35	9 49 11					6 33
S 7	22 23	9 31	4 48	24 24	1 53	18 32	2 29	26 28	3 24	17 19	0 53	3 24	2 30	18 41	0 15	19 40	1 35	9 49 11	2/ 11 4.	3 11 13	10 2	16 51	6 33
S 8	-	13 21		24 15		18 46		26 26		17 18	0 53	3 25		18 42		19 40		9 49 11					6 33
M 9	22 6	16 23		24 4	1 58	-		26 25	3 23		0 53	3 26		18 42		19 41	1 35	9 49 11					6 32
T 10	21 57			23 51	2 0			26 24		17 18	0 52	3 27		18 43			1 35	9 49 11	-				6 32
W11	21 48	19 13		23 37	2 2			26 23		17 18	0 52	3 29	2 29	-		-	1 35	9 50 11	-	-			6 32
T 12		18 48		23 21	2 3			26 22		17 18	0 52	3 30	2 29	-			1 35	9 50 11					6 32
_		17 15			2 4			26 21		17 18	0 52	3 31		18 45		19 42	1 35	9 50 11					6 32
S 14	21 17	14 45	1 4	22 44	2 5	20 5	2 14	26 20	3 22	17 19	0 51	3 33	2 28	18 45	0 15	19 42	1 35	9 50 11	25 11 5	4 11 21	10 15	16 51	6 32
	21 7	11 32	0n 8	22 24		20 16		26 18		17 19	0 51	3 34	2 28	18 46		19 42		9 50 11	-				6 31
M16	20 55	7 51				20 27		26 17			0 51	3 36		18 46		19 42		9 50 11					6 31
T 17	20 43	3 56		21 37		20 37		26 16		17 20	0 51	3 37		18 47		19 43		9 50 11					6 31
	20 31	0s 4		21 12		20 47		26 15		17 20	0 50	3 39		18 47		19 43		9 50 11					6 31
T 19	20 19	3 59		20 44		20 56		26 14		17 20	0 50	3 40		18 48		19 43		9 50 11					6 30
F 20	20 6	7 43		20 16		21 5		26 13		17 21	0 50 0 49	3 42		18 48		19 43		9 51 11					6 30
S 21	19 53	11 7		19 45		21 13		26 12		17 21	0 49	3 44		18 49		19 44		9 51 11					0 30
S 22	19 39	-		19 13		21 21		26 11		17 22	0 49	3 45		18 49		19 44		9 51 11					6 30
M23		16 30		18 40		21 28		26 11		17 23	0 49	3 47	2 26			19 44		9 51 11	-	_			6 29
T 24		18 12				21 34		26 10		17 23	0 49	3 49	2 26			19 44		9 51 11					6 29
W25	18 56			17 29		21 40	1 44			17 24	0 48	3 51	2 26			19 44		9 51 11					6 29
T 26				16 51		21 46	1 41			17 25	0 48	3 52		18 51		19 45	1 35	9 51 11					6 28
F 27 S 28	18 25 18 9	15 59		16 12 15 32		21 50 21 54	1 37 1 34			17 26 17 27	0 48 0 48	3 54 3 56		18 51 18 52		19 45 19 45	1 36 1 36	9 52 11 9 52 11					6 28 6 28
S 29	17 53	-		14 51		21 58	1 31			17 28	0 47	3 58		18 52		19 45				1 11 38	-		6 28
M30	17 37	-	0 s 5 3		1 2		1 28			17 29	0 47	4 0		18 53		19 45							
T 31	17 s20	5 s 6	2s 6	13 s26	0s53	22 s 3	1n25	26n 5	3n 9	17n30	0 s47	4n 2	2 s24	18 s53	0n15	19 s45	1n36	9n52 11s	21 12n	U 11n40	10s45	16n54	6 s27

Julian Day Number = 2321884.5, Delta T = 46.81 sec Ecliptic obliquity =  $23^{\circ}28'59$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}47'07$ , Lahiri =  $18^{\circ}54'08$ Greg. Calendar

#### FEBRUARY 1645 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	并	Р	r	v	Ç	Ŷ,	Day
W 1	8 45 57	12≈36'29	6 <b>Υ</b> 4	28≈22	3 <b>る</b> 38	18 <b>I</b> I11	21851	15 <b>Y</b> 56	25 <b>M</b> 22	5 <b>₹</b> 54	4°R16	28€34	29№26	11 <b>M</b> .58	23°R41	W 1
T 2	8 49 54	13°37'16	20°10	29°56	4°50	18°18	21°54	16° 1	25°23	5°55	4 <b>Ⅱ</b> 16	28°35	29°23	12° 5	23耳39	T 2
F 3	8 53 50	14°38'02	4 <b>8</b> 20	1 <b>)</b> 27	6° 2	18°25	21°58	16° 6	25°24	5°57	4°15	28°36	29°20	12°12	23°37	F 3
S 4	8 57 47	15°38'46	18°32	2°54	7°15	18°32	22° 2	16°11	25°26	5°58	4°15	28°R36	29°17	12°19	23°35	S 4
S 5	9 1 43	16°39'29	2∏42	4°16	8°27	18°41	22° 6	16°16	25°27	5°59	4°15	28°36	29°14	12°25	23°33	S 5
M 6	9 5 40	17°40'10	16°50	5°33	9°39	18°50	22°10	16°21	25°28	6° 0	4°15	28°35	29°10	12°32	23°32	M 6
T 7	9 9 3 7	18°40'50	0951	6°45	10°52	18°59	22°15	16°26	25°29	6° 1	4°14	28°33	29° 7	12°39	23°30	T 7
W 8	9 13 33	19°41'28	14°45	7°49	12° 4	19° 9	22°19	16°31	25°31	6° 2	4°14	28°32	29° 4	12°45	23°28	W 8
T 9	9 17 30	20°42'04	28°28	8°47	13°17	19°20	22°24	16°37	25°32	6° 3	4°14	28°31	29° 1	12°52	23°27	T 9
F 10	9 21 26	21°42'38	11 <b>Ω</b> 57	9°36	14°29	19°31	22°29	16°42	25°33	6° 3	4°14	28°31	28°58	12°59	23°26	F 10
S 11	9 25 23	22°43'11	25°11	10°17	15°42	19°43	22°34	16°47	25°34	6° 4	4°14	28°D30	28°55	13° 6	23°24	S 11
S 12	9 29 19	23°43'43	8Mp 9	10°48	16°54	19°55	22°39	16°53	25°35	6° 5	4°14	28°30	28°51	13°12	23°23	S 12
M13	9 33 16	24°44'13	20°51	11°10	18° 7	20° 8	22°45	16°59	25°35	6° 6	4°14	28°31	28°48	13°19	23°22	M13
T 14	9 37 12	25°44'41	3 <b>≏</b> 17	11°22	19°20	20°22	22°50	17° 4	25°36	6° 7	4°14	28°31	28°45	13°26	23°21	T 14
W15	9 41 9	26°45'08	15°30	11°R24	20°32	20°35	22°56	17°10	25°37	6° 7	4°14	28°31	28°42	13°32	23°20	W15
T 16	9 45 6	27°45'33	27°32	11°15	21°45	20°50	23° 2	17°16	25°38	6° 8	4°D13	28°31	28°39	13°39	23°19	T 16
F 17	9 49 2	28°45'58	9 <b>M</b> 28	10°57	22°58	21° 5	23° 8	17°22	25°38	6° 9	4°13	28°R31	28°35	13°46	23°18	F 17
S 18	9 52 59	29°46'20	21°20	10°29	24°11	21°20	23°15	17°28	25°39	6° 9	4°14	28°31	28°32	13°53	23°17	S 18
S 19	9 56 55	0 <b>)</b> 46′42	3 <b>∡</b> 14	9°52	25°24	21°36	23°21	17°33	25°39	6°10	4°14	28°D31	28°29	13°59	23°16	S 19
M20	10 0 52	1°47'02	15°15	9° 8	26°37	21°52	23°28	17°40	25°40	6°10	4°14	28°31	28°26	14° 6	23°16	M20
T 21	10 448	2°47'20	27°27	8°17	27°50	22° 9	23°34	17°46	25°40	6°11	4°14	28°32	28°23	14°13	23°15	T 21
W22	10 8 45	3°47'37	9 <b>ප</b> 54	7°21	29° 2	22°26	23°41	17°52	25°41	6°11	4°14	28°32	28°20	14°19	23°15	W22
T 23	10 12 41	4°47'53	22°39	6°21	0≈15	22°43	23°48	17°58	25°41	6°12	4°14	28°33	28°16	14°26	23°14	T 23
F 24	10 16 38	5°48'06	5≈46	5°18	1°28	23° 1	23°56	18° 4	25°41	6°12	4°14	28°33	28°13	14°33	23°14	F 24
S 25	10 20 35	6°48'19	19°14	4°15	2°41	23°20	24° 3	18°11	25°41	6°13	4°14	28°34	28°10	14°40	23°14	S 25
S 26	10 24 31	7°48'29	3 <b>)</b> 4	3°13	3°54	23°39	24°11	18°17	25°41	6°13	4°15	28°R34	28° 7	14°46	23°D14	S 26
M27	10 28 28	8°48'37	17°12	2°12	5° 8	23°58	24°18	18°23	25°42	6°13	4°15	28°34	28° 4	14°53	23°14	M27
T 28	10 32 24	9 <b>) (</b> 48'44	1 <b>Y</b> 34	1 <b>)</b> 16	6≈21	24Ⅱ17	24826	18 <b>Y</b> 30	25°R42	6 <b>₹</b> 14	4 <b>Ⅱ</b> 15	28€33	28€ 1	15 <b>M</b> 0	23耳14	T 28

Day	0	D	ğ	Q	o <sup>7</sup>	4	ħ	)∤(	卉	В	n	Ω	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
W 1 T 2	17s 3 16 46	4n 4 4 8	12 0 0 3	2 22 s 5 1n21 1 22 6 1 18	26 5 3 7	17 32 0 46	4n 4 2s24 4 6 2 24	18 s53 0n15 18 54 0 15		9 53 11 20	11 59	11 42	10 49	16 54 6 26
F 3 S 4	16 28 16 11			9 22 6 1 15 7 22 6 1 12		17 33 0 46 17 34 0 46			19 46 1 36 19 46 1 36					
S 5 M 6 T 7	15 34	15 35 5 16 17 51 5 1 19 1 4 28	9 10 0 2	1 22 3 1 5	26 4 3 4 26 4 3 3 26 3 3 2	17 37 0 45	4 15 2 23	18 55 0 15	19 46 1 36 19 46 1 36 19 46 1 36	9 54 11 19	11 59	11 47	10 56	16 55 6 25
W 8 T 9		19 2 3 39	7 52 0 5	1 21 58 0 58 6 21 55 0 55	26 3 3 1	17 40 0 45	4 19 2 22	18 55 0 15	19 47 1 36 19 47 1 36	9 54 11 19	12 0	11 49		16 56 6 24
F 10 S 11	14 18 13 58	15 47 1 31 12 52 0 18		2 21 51 0 51 8 21 46 0 48		17 43 0 44 17 44 0 44	_		19 47 1 36 19 47 1 36			11 51 11 52	11 3 11 4	16 56 6 23 16 57 6 23
S 12 M13 T 14	13 38 13 18 12 58	9 21 0n53 5 29 2 1 1 28 3 1	5 24 2			17 46 0 44 17 47 0 44 17 49 0 43	4 28 2 22 4 30 2 21 4 33 2 21	18 57 0 15	19 47 1 36 19 47 1 36 19 47 1 36	9 55 11 17	12 1	11 55	11 6 11 8 11 10	16 57 6 22
W15 T 16 F 17	12 37 12 16 11 55	2 s 3 3 5 2 6 2 3 4 3 2 9 5 6 5 0	4 42 2 5	9 21 21 0 34 3 21 13 0 31 5 21 4 0 28	26 3 2 53		4 35 2 21 4 37 2 21 4 40 2 21	18 57 0 16	19 47 1 36 19 47 1 36 19 47 1 37		12 1	11 58	11 11 11 13 11 15	16 59 6 21
1	11 34		4 37 3 1	6 20 55 0 24 6 20 45 0 21	26 3 2 51	17 56 0 42 17 58 0 42	4 42 2 20	18 57 0 16	19 47 1 37 19 47 1 37 19 47 1 37	9 57 11 16	12 1	12 0	11 17 11 18	16 59 6 20
M20 T 21	10 52 10 30	17 38 5 4 18 50 4 38	4 52 3 3 5 5 3 3	4 20 35 0 18 9 20 24 0 14	26 3 2 49 26 3 2 48	18 0 0 42 18 2 0 42	4 47 2 20 4 50 2 20	18 58 0 16 18 58 0 16	19 47 1 37 19 48 1 37	9 57 11 15 9 58 11 15	12 1 12 0	12 2 12 4	11 20 11 22	17 0 6 19 17 1 6 19
W22 T 23 F 24	9 24	19 9 3 58 18 31 3 6 16 53 2 3	5 44 3 4 6 7 3 4	4 20 0 0 8 3 19 47 0 5	26 3 2 47 26 3 2 46 26 3 2 45	18 6 0 41 18 8 0 41	4 55 2 20 4 57 2 19	18 58 0 16 18 58 0 16	19 48 1 37 19 48 1 37 19 48 1 37	9 58 11 15 9 58 11 15 9 59 11 14	12 0 12 0	12 6 12 7	11 24 11 25 11 27	17 1 6 18 17 2 6 17
S 25 S 26	8 39	14 16 0 51 10 47 0s25		5 19 20 0s 2	26 3 2 43	18 10 0 41 18 12 0 41	5 2 2 19	18 58 0 16	19 48 1 37 19 48 1 37		12 0	12 9	-	17 3 6 16
M27 T 28	8 17 7 s54	6 37 1 41 2s 1 2s53	7 28 3 2 7s56 3n2	8 19 6 0 5 0 18s51 0s 8		18 14 0 40 18n16 0 s40			19 48 1 37 19 s48 1 n37	9 59 11 14 10n 0 11s13	-	-	-	

Julian Day Number = 2321915.5, Delta T = 46.75 sec Ecliptic obliquity = 23°29'00, Nutation = -0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°47'11, Lahiri = 18°54'12Greg. Calendar

MARCH 1645 GC 00:00 UT

FIMIL	JII TOT	uc													00.00	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	¥	Р	ß	Ω	Ç	ķ	Day
W 1	10 36 21	10 <b>) (</b> 48'49	16 <b>Υ</b> 4	0°R23	7≈34	24 <b>II</b> 37	24834	18 <b>Y</b> 37	25°R42	6 <b>₹</b> 14	4 <b>Ⅱ</b> 15	28°R31	27 <b>Ω</b> 57	15 <b>M</b> 6	23 <b>I</b> I14	W 1
T 2	10 40 17	11°48'51	0 <b>8</b> 37	29≈35	8°47	24°57	24°42	18°43	25 <b>M</b> 41	6°14	4°16	$28\Omega 30$	27°54	15°13	23°15	T 2
F 3	10 44 14	12°48'52	15° 7	28°54	10° 0	25°18	24°50	18°50	25°41	6°14	4°16	28°28	27°51	15°20	23°15	F 3
S 4	10 48 10	13°48'50	29°29	28°18	11°13	25°39	24°59	18°56	25°41	6°14	4°16	28°27	27°48	15°27	23°15	S 4
S 5	10 52 7	14°48'46	13耳40	27°49	12°26	26° 0	25° 7	19° 3	25°41	6°15	4°17	28°D26	27°45	15°33	23°16	S 5
M 6	10 56 4	15°48'40	27°38	27°27	13°39	26°22	25°16	19°10	25°41	6°15	4°17	28°27	27°41	15°40	23°17	M 6
T 7	11 0 0	16°48'31	119523	27°11	14°53	26°44	25°25	19°17	25°40	6°15	4°17	28°28	27°38	15°47	23°17	T 7
W 8	11 3 57	17°48'21	24°53	27° 2	16° 6	27° 6	25°34	19°24	25°40	6°R15	4°18	28°29	27°35	15°54	23°18	W 8
T 9	11 7 53	18°48'08	8 <b>N</b> 9	26°D59	17°19	27°29	25°43	19°31	25°39	6°15	4°18	28°31	27°32	16° 0	23°19	T 9
F 10	11 11 50	19°47'52	21°13	27° 2	18°32	27°51	25°52	19°38	25°39	6°15	4°19	28°31	27°29	16° 7	23°20	F 10
S 11	11 15 46	20°47'35	4 Mp 4	27°11	19°45	28°15	26° 1	19°45	25°38	6°15	4°19	28°R32	27°26	16°14	23°21	S 11
S 12	11 19 43	21°47'16	16°43	27°26	20°59	28°38	26°11	19°52	25°38	6°14	4°20	28°30	27°22	16°20	23°22	S 12
M13	11 23 39	22°46'54	29°10	27°45	22°12	29° 2	26°20	19°59	25°37	6°14	4°20	28°28	27°19	16°27	23°24	M13
T 14	11 27 36	23°46'31	11 <b>≏</b> 27	28°10	23°25	29°26	26°30	20° 6	25°36	6°14	4°21	28°25	27°16	16°34	23°25	T 14
W15	11 31 32	24°46'05	23°35	28°40	24°38	29°50	26°40	20°13	25°36	6°14	4°21	28°20	27°13	16°41	23°26	W15
T 16	11 35 29	25°45'38	5 <b>M</b> .35	29°14	25°52	09୍ତ14	26°49	20°20	25°35	6°14	4°22	28°15	27°10	16°47	23°28	T 16
F 17	11 39 26	26°45'09	17°29	29°52	27° 5	0°39	26°59	20°27	25°34	6°13	4°22	28°11	27° 6	16°54	23°29	F 17
S 18	11 43 22	27°44'38	29°22	0 <b>)</b> €34	28°18	1° 4	27° 9	20°34	25°33	6°13	4°23	28° 7	27° 3	17° 1	23°31	S 18
S 19	11 47 19	28°44'05	11 <b>×</b> 15	1°19	29°32	1°29	27°20	20°42	25°32	6°13	4°24	28° 4	27° 0	17° 7	23°33	S 19
M20	11 51 15	29°43'30	23°14	2° 8	0 <b>)</b> €45	1°55	27°30	20°49	25°31	6°12	4°24	28° 2	26°57	17°14	23°35	M20
T 21	11 55 12	0 <b>Υ</b> 42'54	5 <b>군</b> 23	3° 1	1°58	2°20	27°40	20°56	25°30	6°12	4°25	28°D 2	26°54	17°21	23°36	T 21
W22	11 59 8	1°42'16	17°47	3°56	3°12	2°46	27°51	21° 4	25°29	6°11	4°26	28° 3	26°51	17°28	23°38	W22
T 23	12 3 5	2°41'36	0≈30	4°54	4°25	3°12	28° 1	21°11	25°28	6°11	4°26	28° 5	26°47	17°34	23°40	T 23
F 24	12 7 1	3°40'54	13°36	5°56	5°38	3°38	28°12	21°18	25°27	6°10	4°27	28° 6	26°44	17°41	23°43	F 24
S 25	12 10 58	4°40'11	27° 8	6°59	6°52	4° 5	28°23	21°26	25°25	6°10	4°28	28°R 7	26°41	17°48	23°45	S 25
S 26	12 14 55	5°39'25	11 <b>)</b> 7	8° 5	8° 5	4°32	28°34	21°33	25°24	6° 9	4°29	28° 6	26°38	17°55	23°47	S 26
M27	12 18 51	6°38'38	25°30	9°14	9°18	4°59	28°45	21°41	25°23	6° 9	4°29	28° 4	26°35	18° 1	23°50	M27
T 28	12 22 48	7°37'48	10 <b>Y</b> 13	10°25	10°32	5°26	28°56	21°48	25°21	6° 8	4°30	28° 0	26°32	18° 8	23°52	T 28
W29	12 26 44	8°36'57	25°10	11°38	11°45	5°53	29° 7	21°56	25°20	6° 7	4°31	27°54	26°28	18°15	23°55	W29
T 30	12 30 41	9°36'03	10810	12°53	12°59	6°21	29°18	22° 3	25°19	6° 7	4°32	27°48	26°25	18°21	23°57	T 30
F 31	12 34 37	10 <b>Y</b> 35'08	25 <b>8</b> 5	14 <b>) (</b> 10	14 <b>) (</b> 12	69548	29 <b>8</b> 30	22 <b>Υ</b> 11	25 <b>M</b> .17	6 <b>₹</b> 6	4 <b>Ⅲ</b> 33	27 <b>Ω</b> 41	$26\Omega 22$	18 <b>M</b> .28	24 <b>II</b> 0	F 31

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W 1	7 s32	2n44 3s54		3n10 18s35	0s11 26n 2	2n40		0 s40 0 40	5n10		18 s 58		19 s 48		10n 0					17n 4	
T 2 F 3	, ,	7 20 4 40 11 30 5 8		2 58 18 19 2 46 18 3	0 14 26 2 0 17 26 2	2 39 2 38		0 40	5 13 5 15	-	18 58 18 58		19 48 19 48	1 37 1 37		11 13 11 12			11 37 11 39		6 15
S 4		14 56 5 16		2 33 17 46	0 20 26 2	2 37	-	0 39	5 18	-	18 58		19 48	1 37	-	11 12				17 5	6 14
S 5	6 0	17 26 5 5	10 4	2 19 17 28	0 23 26 1	2 36	18 27	0 39	5 21	2 18	18 58	0 16	19 48	1 37	10 1	11 12	12 2	12 17	11 43	17 6	6 13
M 6	5 36			2 5 17 10	0 26 26 1	2 35		0 39	5 23	2 18	18 58	0 16	19 48	1 37	-	11 12			11 44	17 6	6 13
T 7				1 51 16 52	0 29 26 1	2 34		0 39	5 26	-	18 58		19 47	1 37	-	11 11					6 12
W 8		18 19 2 55		1 36 16 33	0 31 26 0	2 33		0 38	5 29		18 58		19 47		-	11 11		12 20			6 12
T 9	-			1 22 16 13	0 34 26 0		18 36	0 38	5 31	-	18 57			1 38		11 11			11 50		6 11
F 10	-		-	1 7 15 53	0 37 25 59	_	18 39	0 38	5 34		18 57		19 47		-	11 11			11 51		6 11
S 11	3 39	10 31 0n30	11 38	0 53 15 33	0 40 25 59	2 30	18 41	0 38	5 37	2 17	18 57	0 16	19 47	1 38	10 3	11 10	12 1	12 23	11 53	17 9	6 11
S 12	3 16	6 46 1 38	11 46	0 39 15 12	0 42 25 58	2 29	18 43	0 38	5 40	2 17	18 57	0 16	19 47	1 38	10 4	11 10	12 1	12 24	11 55	17 9	6 10
M13	2 52	2 47 2 41	11 52	0 26 14 51	0 45 25 57	2 28		0 37	5 42			0 16	19 47	1 38	-	11 10		12 25			6 10
T 14	2 29	1s15 3 34	11 56	0 13 14 29	0 47 25 56			0 37	5 45		18 57	0 16	19 47	1 38			12 3	12 27	11 58	17 10	6 9
W15	2 5	5 11 4 17	,	0 0 14 7	0 50 25 56			0 37	5 48				-, .,	1 38		11 9			12 0	17 11	6 9
T 16	1 41	8 52 4 49		0s12 13 44	0 52 25 55	2 26		0 37	5 51		18 56			1 38	-	11 9		12 29		17 11	6 8
F 17				0 24 13 21	0 54 25 54	_		0 37	5 54					1 38		11 9		12 30		17 12	6 8
S 18	0 54	14 58 5 13	11 50	0 35 12 58	0 57 25 53		18 58	0 36	5 56	2 17	18 56	0 16	19 47	1 38	10 6	11 8	12 9	12 31	12 5	17 12	6 7
S 19				0 46 12 35	0 59 25 51	2 23		0 36	5 59		18 56		19 47	1 38			12 10			17 13	6 7
M20				0 56 12 11	1 1 25 50	2 22		0 36	6 2	-				1 38		-	12 11			17 14	6 7
T 21		19 14 4 9		1 5 11 46	1 3 25 49	2 21	19 6	0 36	6 5					1 38			12 11				6 6
W22	0 41		-	1 15 11 22	1 5 25 47	2 20		0 36	6 8	-				1 38			12 10				6 6
T 23		17 43 2 25		1 23 10 57	1 7 25 46	-	19 11	0 36	6 10	-	18 55			1 38			12 10				6 5
F 24	-	15 31 1 18		1 32 10 32	1 9 25 44		19 13	0 35	6 13	-	18 54			1 38			12 9		12 15		6 5
S 25	1 52	12 24 0 5	10 30	1 39 10 6	1 11 25 43	2 18	19 16	0 35	6 16	2 16	18 54	0 16	19 46	1 38	10 8	11 7	12 9	12 39	12 17	17 16	6 4
S 26	2 15	8 30 1s10	10 12	1 46 9 40	1 13 25 41		19 18	0 35	6 19	2 16	18 54		19 46	1 38	10 9	11 6	12 9	12 40	12 19	17 17	6 4
M27	2 39	3 59 2 23		1 53 9 14	1 14 25 39	-	19 21	0 35	6 22	2 16			19 46	1 38	-	-	12 10				6 4
T 28	3 2	0n52 3 29		1 59 8 48	1 16 25 37		19 24	0 35	6 25	2 16			-	1 38	10 10	-			12 22		6 3
W29	3 25	5 43 4 20		2 5 8 22	1 17 25 35		19 26	0 34	6 27	-			19 45	1 38	10 10	-			12 24		6 3
T 30	3 49	10 14 4 55	-	2 10 7 55	1 19 25 33		19 29	0 34	6 30	-			19 45	1 38	10 10	-			12 25		6 2
F 31	4n12	14n 4 5s 9	8s19	2s14 7s28	1 s20 25n31	2n12	19n31	0 s34	6n33	2s16	18 s52	0n16	19 s45	1n39	10n11	11s 5	12n18	12n45	12 s27	17n19	6s 2

Julian Day Number = 2321943.5, Delta T = 46.70 sec Ecliptic obliquity =  $23^{\circ}29'00$ , Nutation = -  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}47'15$ , Lahiri =  $18^{\circ}54'16$ Greg. Calendar

APRIL 1645 GC 00:00 UT

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S 1	12 38 34	11 <b>°</b> 34'10	9 <b>Ⅱ</b> 46	15 <b>∺</b> 29	15 <b>∺</b> 25	<b>7</b> 916	29841	22 <b>Υ</b> 18	25°R16	6°R 5	4 <b>∏</b> 34	27°R36	26 <b>Ω</b> 19	18 <b>M</b> .35	24 <b>I</b> I 3	S 1
S 2	12 42 30	12°33'09	24°10	16°50	16°39	7°44	29°53	22°26	25 <b>M</b> .14	6 <b>₹</b> 4	4°35	27 <b>£</b> 33	26°16	18°42	24° 5	S 2
M 3	12 46 27	13°32'07	89511	18°12	17°52	8°12	0 <b>Ⅱ</b> 4	22°33	25°12	6° 4	4°35	27°D31	26°12	18°48	24° 8	M 3
T 4	12 50 24	14°31'02	21°51	19°37	19° 6	8°41	0°16	22°41	25°11	6° 3	4°36	27°32	26° 9	18°55	24°11	T 4
W 5	12 54 20	15°29'54	5 <b>Ω</b> 9	21° 3	20°19	9° 9	0°28	22°49	25° 9	6° 2	4°37	27°33	26° 6	19° 2	24°14	W 5
T 6	12 58 17	16°28'45	18°10	22°31	21°32	9°38	0°40	22°56	25° 7	6° 1	4°38	27°34	26° 3	19°8	24°18	T 6
F 7	13 2 13	17°27'33	0 <b>m</b> 55	24° 1	22°46	10° 7	0°51	23° 4	25° 6	6° 0	4°39	27°R34	26° 0	19°15	24°21	F 7
S 8	13 6 10	18°26'18	13°27	25°32	23°59	10°36	1° 3	23°11	25° 4	5°59	4°40	27°33	25°57	19°22	24°24	S 8
S 9	13 10 6	19°25'02	25°49	27° 5	25°13	11° 5	1°15	23°19	25° 2	5°58	4°41	27°29	25°53	19°29	24°27	S 9
M10	13 14 3	20°23'44	8 <b>₾</b> 2	28°40	26°26	11°34	1°28	23°27	25° 0	5°57	4°42	27°23	25°50	19°35	24°31	M10
T 11	13 17 59	21°22'23	20° 8	0 <b>Υ</b> 16	27°39	12° 4	1°40	23°34	24°58	5°56	4°43	27°15	25°47	19°42	24°34	T 11
W12	13 21 56	22°21'01	2 <b>M</b> 8	1°54	28°53	12°33	1°52	23°42	24°56	5°55	4°44	27° 5	25°44	19°49	24°38	W12
T 13	13 25 52	23°19'36	14° 4	3°33	0 <b>Υ</b> 6	13° 3	2° 4	23°50	24°54	5°54	4°45	26°54	25°41	19°56	24°42	T 13
F 14	13 29 49	24°18'10	25°58	5°15	1°20	13°33	2°17	23°57	24°52	5°53	4°46	26°43	25°38	20° 2	24°45	F 14
S 15	13 33 46	25°16'42	7 <b>₹</b> 50	6°57	2°33	14° 3	2°29	24° 5	24°50	5°52	4°48	26°34	25°34	20° 9	24°49	S 15
S 16	13 37 42	26°15'13	19°43	8°42	3°46	14°33	2°42	24°12	24°48	5°51	4°49	26°26	25°31	20°16	24°53	S 16
M17	13 41 39	27°13'41	1 <b>る</b> 42	10°28	5° 0	15° 3	2°54	24°20	24°46	5°50	4°50	26°20	25°28	20°22	24°57	M17
T 18	13 45 35	28°12'08	13°49	12°16	6°13	15°34	3° 7	24°28	24°44	5°48	4°51	26°17	25°25	20°29	25° 1	T 18
W19	13 49 32	29°10'34	26°10	14° 5	7°27	16° 4	3°20	24°35	24°42	5°47	4°52	26°D16	25°22	20°36	25° 5	W19
T 20	13 53 28	0 <b>8</b> 8'57	8≈48	15°57	8°40	16°35	3°32	24°43	24°39	5°46	4°53	26°16	25°18	20°43	25° 9	T 20
F 21	13 57 25	1° 7'20	21°49	17°50	9°53	17° 6	3°45	24°51	24°37	5°45	4°54	26°R16	25°15	20°49	25°13	F 21
S 22	14 1 21	2° 5'40	5 <b>)</b> 17	19°44	11° 7	17°36	3°58	24°58	24°35	5°44	4°55	26°16	25°12	20°56	25°17	S 22
S 23	14 5 18	3° 3'59	19°13	21°40	12°20	18° 7	4°11	25° 6	24°33	5°42	4°57	26°14	25° 9	21° 3	25°21	S 23
M24	14 9 15	4° 2'17	3 <b>Y</b> 38	23°38	13°34	18°38	4°24	25°13	24°30	5°41	4°58	26°10	25° 6	21° 9	25°25	M24
T 25	14 13 11	5° 0'32	18°28	25°38	14°47	19°10	4°37	25°21	24°28	5°40	4°59	26° 3	25° 3	21°16	25°30	T 25
W26	14 17 8	5°58'47	3 <b>8</b> 36	27°39	16° 1	19°41	4°50	25°29	24°26	5°38	5° 0	25°54	24°59	21°23	25°34	W26
T 27	14 21 4	6°56'59	18°53	29°42	17°14	20°12	5° 3	25°36	24°23	5°37	5° 2	25°44	24°56	21°30	25°39	T 27
F 28	14 25 1	7°55'10	4 <b>I</b> I 6	1846	18°27	20°44	5°16	25°44	24°21	5°36	5° 3	25°34	24°53	21°36	25°43	F 28
S 29	14 28 57	8°53'19	19° 7	3°51	19°41	21°16	5°29	25°51	24°19	5°34	5° 4	25°25	24°50	21°43	25°48	S 29
S 30	14 32 54	9851'26	3 <b>9</b> 45	5 <b>8</b> 58	20 <b>Y</b> 54	219547	5∏42	25 <b>Y</b> 59	24 <b>M</b> 16	5 <b>₹</b> 33	5 <b>II</b> 5	25 <b>Ω</b> 18	24 <b>Ω</b> 47	21 <b>M</b> .50	25 <b>Ⅱ</b> 52	S 30

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S 1	4n35	16n59 5s 2	7s52 2s18	7s 1 1s22 25n	28 2n12	19n34	0 s34	6n36	2s16	18 s52	0n16	19 s45	1n39	10n11	11s 5	12n20	12n46	12 s29	17n20	6s 1
S 2		18 45 4 37	7 23 2 22	6 33 1 23 25			0 34	6 39	-	18 51	0 16			10 11		12 21				6 1
M 3		19 19 3 55	6 54 2 25		-		0 34	6 42	-		0 16			10 12		12 21				6 1
T 4 W 5	5 44 6 7	18 44 3 1 17 6 1 58	6 23 2 28 5 51 2 30	5 38 1 25 25 5 10 1 27 25			0 33 0 33	6 45 6 47	2 16 2 15					10 12 10 13		12 21 12 21				6 0
T 6	6 29	14 37 0 51	5 17 2 31	4 42 1 28 25	-	-	0 33	6 50	-					10 13				12 30		5 59
F 7		11 27 0n18			12 2 7		0 33	6 53	-					10 13		12 20				5 59
S 8	7 14	7 49 1 24	4 7 2 33	3 46 1 29 25	9 2 6	19 52	0 33	6 56	2 15	18 49	0 16	19 43	1 39	10 14	11 4	12 21	12 54	12 41	17 23	5 59
S 9	7 37	3 54 2 26	3 30 2 33	3 17 1 30 25	6 2 5	19 55	0 33	6 59	2 15	18 48	0 16	19 43	1 39	10 14	11 3	12 22	12 55	12 42	17 24	5 58
M10	7 59	0s 8 3 20	2 51 2 32	2 49 1 31 25	2 2 4		0 33	7 2	2 15					10 14	-	12 24			17 25	5 58
T 11 W12	8 21 8 43	4 7 4 4	2 12 2 31		59 2 3		0 32 0 32	7 4 7 7	2 15		0 16			10 15	-	12 27				5 58 5 57
T 13	9 5	7 55 4 36 11 22 4 57	1 32 2 29 0 50 2 27		55 2 3 52 2 2		0 32	7 7 7 10	2 15 2 15		0 16 0 16			10 15 10 15		12 30 12 34				5 57
F 14	, ,	14 21 5 4	0 7 2 25	0 54 1 33 24			0 32	7 13	2 15					10 16		12 38				5 57
S 15	9 48	16 45 4 58	0n36 2 21	0 25 1 33 24	14 2 0	20 11	0 32	7 16	2 15	18 45	0 16	19 42	1 39	10 16	11 2	12 41	13 1	12 52	17 27	5 56
S 16	10 9	18 26 4 40	1 21 2 18	0n 4 1 34 <mark>24</mark>	1 59	20 13	0 32	7 18	2 15	18 45	0 16	19 42	1 39	10 17	11 2	12 44	13 2	12 54	17 27	5 56
M17		19 20 4 9	2 6 2 14	0 33 1 34 24			0 32	7 21	-					10 17		12 46			17 28	5 55
T 18		19 21 3 26		1 2 1 34 24		-	0 31	7 24	2 15					10 17		12 47		12 0,		5 55
W19 T 20	11 12 11 33	18 27 2 33 16 37 1 32	3 40 2 4 4 28 1 58	1 31 1 34 24 2 0 1 34 24		-	0 31 0 31	7 27 7 30	2 15 2 15					10 18 10 18		12 47 12 47		12 59 13 1	17 29 17 29	5 55 5 54
F 21	11 53			2 29 1 34 24			0 31	7 32	2 15					10 18		12 47				5 54
S 22		10 20 0s48	6 7 1 45	2 58 1 34 24			0 31	7 35	-	18 42				10 19		12 47		13 4		5 54
S 23	12 33	6 6 1 59	6 57 1 38	3 27 1 34 24	8 1 54	20 31	0 31	7 38	2 15	18 41	0 16	19 40	1 39	10 19	11 1	12 48	13 10	13 6	17 31	5 54
M24	12 53	1 23 3 5	7 48 1 30	3 55 1 34 24	3 1 53	20 34	0 31	7 41	2 15	18 41	0 16	19 40	1 39	10 20	11 1	12 49	13 11	13 7	17 31	5 53
T 25	13 13	3n33 4 0	8 39 1 22	4 24 1 33 23			0 30	7 43	2 15					10 20		12 52			-, -	5 53
W26	13 32	8 21 4 40		4 53 1 33 23			0 30	7 46	-					10 20		12 55				5 53
T 27 F 28			10 22 1 5 11 14 0 55	5 21 1 32 23 5 50 1 32 23		-	0 30 0 30	7 49 7 51	-					10 21 10 21		12 58 13 1	13 14 13 15	-	17 33 17 33	5 52 5 52
S 29	-		11 14 0 33	6 18 1 31 23			0 30	7 54	-	18 38				10 21		-		13 14		5 52
S 30	-		12n58 0s36				0 s30	7n57	-	18 s37				-		-			17n34	
3 30	14048	191129 3837	121136 0836	01140 1831 231	11149	201149	0830	/113 /	2 S I O	1083/	0110	19838	11140	101122	118 0	13n /	1301/	1381/	1/1134	3831

Julian Day Number = 2321974.5, Delta T = 46.64 sec Ecliptic obliquity =  $23^{\circ}29'00$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}47'20$ , Lahiri =  $18^{\circ}54'20$ Greg. Calendar

MAY 1645 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ	)∤(	#	Р	ß	v	ţ	ę,	Day
M 1	14 36 50	10849'31	179558	8 <b>8</b> 6	22 <b>Y</b> 8	229519	5 <b>Ⅱ</b> 56	26 <b>Y</b> 6	24°R14	5°R31	5 <b>I</b> 7	25°R14	24€43	21 <b>M</b> 57	25 <b>II</b> 57	M 1
T 2	14 40 47	11°47'34	1 <b>Ω</b> 42	10°15	23°21	22°51	6° 9	26°14	24ML12	5 <b>₹</b> 30	5°8	25 <b>Ω</b> 13	24°40	22° 3	26° 2	T 2
W 3	14 44 44	12°45'35	15° 1	12°25	24°35	23°23	6°22	26°21	24° 9	5°28	5° 9	25°D12	24°37	22°10	26° 7	W 3
T 4	14 48 40	13°43'34	27°57	14°35	25°48	23°55	6°36	26°28	24° 7	5°27	5°10	25°R13	24°34	22°17	26°11	T 4
F 5	14 52 37	14°41'31	10 <b>m</b> 33	16°45	27° 1	24°27	6°49	26°36	24° 4	5°25	5°12	25°12	24°31	22°23	26°16	F 5
S 6	14 56 33	15°39'26	22°55	18°56	28°15	25° 0	7° 2	26°43	24° 2	5°24	5°13	25° 9	24°28	22°30	26°21	S 6
S 7	15 0 30	16°37'20	5₾ 6	21° 6	29°28	25°32	7°16	26°51	23°59	5°22	5°14	25° 4	24°24	22°37	26°26	S 7
M 8	15 4 26	17°35'12	17° 9	23°16	0 <b>8</b> 42	26° 5	7°29	26°58	23°57	5°21	5°16	24°56	24°21	22°44	26°31	M 8
T 9	15 8 23	18°33'02	29° 7	25°26	1°55	26°37	7°43	27° 5	23°54	5°19	5°17	24°45	24°18	22°50	26°36	T 9
W10	15 12 19	19°30'51	11 <b>m</b> 2	27°34	3° 8	27°10	7°56	27°13	23°52	5°18	5°18	24°32	24°15	22°57	26°41	W10
T 11	15 16 16	20°28'38	22°55	29°41	4°22	27°43	8°10	27°20	23°49	5°16	5°20	24°18	24°12	23° 4	26°46	T 11
F 12	15 20 13	21°26'24	4 <b>₹</b> 47	1 <b>Ⅱ</b> 46	5°35	28°15	8°24	27°27	23°47	5°15	5°21	24° 4	24° 9	23°10	26°52	F 12
S 13	15 24 9	22°24'09	16°41	3°49	6°49	28°48	8°37	27°34	23°44	5°13	5°22	23°52	24° 5	23°17	26°57	S 13
S 14	15 28 6	23°21'52	28°38	5°51	8° 2	29°21	8°51	27°41	23°42	5°12	5°24	23°41	24° 2	23°24	27° 2	S 14
M15	15 32 2	24°19'34	10 <b>궁</b> 40	7°50	9°16	29°54	9° 5	27°49	23°39	5°10	5°25	23°33	23°59	23°31	27° 7	M15
T 16	15 35 59	25°17'15	22°50	9°46	10°29	0 <b>Ω</b> 27	9°18	27°56	23°37	5° 8	5°26	23°28	23°56	23°37	27°13	T 16
W17	15 39 55	26°14'55	5≈12	11°41	11°42	1° 1	9°32	28° 3	23°34	5° 7	5°28	23°25	23°53	23°44	27°18	W17
T 18	15 43 52	27°12'33	17°49	13°32	12°56	1°34	9°46	28°10	23°32	5° 5	5°29	23°25	23°49	23°51	27°23	T 18
F 19	15 47 48	28°10'11	0 <b>)</b> €47	15°21	14° 9	2° 7	10° 0	28°17	23°29	5° 4	5°30	23°25	23°46	23°58	27°29	F 19
S 20	15 51 45	29° 7'48	14° 8	17° 7	15°23	2°41	10°13	28°24	23°27	5° 2	5°32	23°24	23°43	24° 4	27°34	S 20
S 21	15 55 42	0Ⅱ 5'24	27°57	18°50	16°36	3°14	10°27	28°31	23°24	5° 0	5°33	23°22	23°40	24°11	27°40	S 21
M22	15 59 38	1° 2'59	12 <b>Y</b> 13	20°30	17°50	3°48	10°41	28°37	23°22	4°59	5°34	23°18	23°37	24°18	27°45	M22
T 23	16 3 35	2° 0'33	26°56	22° 8	19° 3	4°21	10°55	28°44	23°19	4°57	5°36	23°11	23°34	24°24	27°51	T 23
W24	16 7 31	2°58'06	128 0	23°42	20°16	4°55	11° 9	28°51	23°17	4°56	5°37	23° 1	23°30	24°31	27°57	W24
T 25	16 11 28	3°55'38	27°17	25°13	21°30	5°29	11°22	28°58	23°14	4°54	5°39	22°51	23°27	24°38	28° 2	T 25
F 26	16 15 24	4°53'09	12 <b>∏</b> 34	26°41	22°43	6° 3	11°36	29° 5	23°12	4°52	5°40	22°41	23°24	24°45	28° 8	F 26
S 27	16 19 21	5°50'39	27°42	28° 6	23°57	6°37	11°50	29°11	23°10	4°51	5°41	22°31	23°21	24°51	28°14	S 27
S 28	16 23 17	6°48'08	12530	29°28	25°10	7°11	12° 4	29°18	23° 7	4°49	5°43	22°24	23°18	24°58	28°19	S 28
M29	16 27 14	7°45'36	26°52	09647	26°24	7°45	12°18	29°24	23° 5	4°47	5°44	22°20	23°15	25° 5	28°25	M29
T 30	16 31 11	8°43'03	$10\Omega45$	2° 2	27°37	8°19	12°32	29°31	23° 2	4°46	5°45	22°18	23°11	25°12	28°31	T 30
W31	16 35 7	9 <b>Ⅱ</b> 40'28	24 <b>N</b> 9	39514	28 <b>8</b> 51	8 <b>N</b> 53	12 <b>Ⅱ</b> 46	29 <b>Y</b> 37	23M 0	4 <b>₹</b> 44	5∏47	22°D17	23 <b>N</b> 8	25 <b>M</b> 18	28 <b>Ⅱ</b> 37	W31

Day	0	J		ğ	i	·		ď	7	2	ļ.	ħ	<u> </u>	);	β(	4	(	Е	<u>-</u>	n	U	Ç	ď	
	decl	decl la	ıt	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	15n 6	19n14	3 s 4	13n50	0s26	7n14	1 s30	23n24	1n48	20n51	0 s30	7n59	2s16	18 s37	0n16	19s38	1n40	10n22	11s 0	13n 8	13n18	13 s 19	17n34	5 s 5 1
T 2	15 24	17 51 2	2 1	14 40	0 15	7 42	1 29	23 18	1 47	20 53	0 30	8 2	2 16	18 36	0 16	19 38	1 40	10 22	10 59	13 8	13 19	13 21	17 35	5 51
W 3	15 42	15 30	0 54	15 31	0 5	8 10	1 28	23 12	1 47	20 56	0 29	8 5	2 16	18 36	0 16	19 37	1 40	10 23	10 59	13 9	13 20	13 22	17 35	5 51
T 4	15 59	12 26	0n15	16 20	0n 6	8 38	1 27	23 6	1 46	20 58	0 29	8 7	2 16	18 35	0 16	19 37	1 40	10 23	10 59	13 9	13 21	13 24	17 35	5 50
F 5	16 17	8 52	1 20	17 8	0 16	9 5	1 26	23 0	1 45	21 1	0 29	8 10	2 16	18 34	0 16	19 37	1 40	10 23	10 59	13 9	13 23	13 26	17 36	5 50
S 6	16 33	4 58 2	2 21	17 55	0 27	9 32	1 25	22 53	1 44	21 3	0 29	8 13	2 16	18 34	0 16	19 37	1 40	10 24	10 59	13 10	13 24	13 27	17 36	5 50
S 7	16 50	0 56	3 14	18 40	0 37	9 59	1 24	22 46	1 44	21 5	0 29	8 15	2 16	18 33	0 16	19 36	1 40	10 24	10 59	13 11	13 25	13 29	17 37	5 50
M 8	17 7	3 s 5	3 58	19 23	0 47	10 26	1 23	22 40	1 43	21 8	0 29	8 18	2 16	18 33	0 16	19 36	1 40	10 24	10 59	13 14	13 26	13 31	17 37	5 49
T 9	17 23	6 58	4 31	20 5	0 57	10 53	1 22	22 33	1 42	21 10	0 29	8 20	2 16	18 32	0 16	19 36	1 40	10 25	10 59	13 18	13 27	13 32	17 37	5 49
W10	17 39	10 33	4 51	20 44	1 7	11 19	1 21	22 26	1 42	21 12	0 29	8 23	2 16	18 31	0 16	19 35	1 40	10 25	10 59	13 22	13 28	13 34	17 38	5 49
T 11	17 54	13 42	4 59	21 21	1 16	11 45	1 19	22 18	1 41	21 15	0 28	8 25	2 16	18 31	0 16	19 35	1 40	10 25	10 58	13 27	13 29	13 35	17 38	5 49
F 12	18 9	16 18	4 54	21 56	1 24	12 11	1 18	22 11	1 40	21 17	0 28	8 28	2 16	18 30	0 16	19 35	1 40	10 26	10 58	13 31	13 30	13 37	17 38	5 49
S 13	18 24	18 14	4 37	22 28	1 32	12 36	1 17	22 4	1 40	21 19	0 28	8 30	2 16	18 30	0 15	19 35	1 40	10 26	10 58	13 35	13 31	13 39	17 39	5 48
S 14	18 39	19 22	4 6	22 57	1 40	13 2	1 15	21 56	1 39	21 21	0 28	8 33	2 16	18 29	0 15	19 34	1 40	10 26	10 58	13 39	13 32	13 40	17 39	5 48
M15	18 53	19 39	3 25	23 24	1 47	13 27	1 14	21 48	1 38	21 23	0 28	8 35	2 17	18 28	0 15	19 34	1 40	10 26	10 58	13 42	13 33	13 42	17 39	5 48
T 16	19 7	19 1 2	2 34	23 49	1 53	13 51	1 12	21 41	1 37	21 26	0 28	8 38	2 17	18 28	0 15	19 34	1 40	10 27	10 58	13 43	13 34	13 44	17 39	5 48
W17	19 21	17 28	1 35	24 11	1 58	14 15	1 10	21 33	1 37	21 28	0 28	8 40	2 17	18 27	0 15	19 33	1 40	10 27	10 58	13 44	13 35	13 45	17 40	5 48
T 18	19 34	15 3 (	0 30	24 30	2 3	14 39	1 9	21 25	1 36	21 30	0 28	8 43	2 17	18 26	0 15	19 33	1 40	10 27	10 58	13 44	13 36	13 47	17 40	5 48
F 19	19 47	11 49 (	0s39	24 46	2 7	15 3	1 7	21 16	1 35	21 32	0 28	8 45	2 17	18 26	0 15	19 33	1 40	10 28	10 58	13 44	13 37	13 48	17 40	5 47
S 20	20 0	7 54	1 47	25 1	2 10	15 26	1 5	21 8	1 35	21 34	0 27	8 47	2 17	18 25	0 15	19 32	1 40	10 28	10 58	13 45	13 38	13 50	17 40	5 47
S 21	20 12	3 27 2	2 52	25 12	2 12	15 49	1 3	21 0	1 34	21 36	0 27	8 50	2 17	18 25	0 15	19 32	1 40	10 28	10 58	13 45	13 39	13 52	17 41	5 47
M22	20 24	1n21	3 48	25 22	2 14	16 11	1 2	20 51	1 33	21 38	0 27	8 52	2 17	18 24	0 15	19 32	1 40	10 29	10 58	13 47	13 40	13 53	17 41	5 47
T 23	20 36	6 12	4 30	25 29	2 14	16 33	1 0	20 42	1 33	21 40	0 27	8 54	2 17	18 23	0 15	19 32	1 40	10 29	10 58	13 49	13 41	13 55	17 41	5 47
W24	20 47	10 47	4 55	25 34	2 14	16 55	0 58	20 34	1 32	21 42	0 27	8 57	2 17	18 23	0 15	19 31	1 40	10 29	10 57	13 52	13 43	13 57	17 41	5 47
T 25	20 58	14 43	5 0	25 37	2 13	17 16	0 56	20 25	1 31	21 44	0 27	8 59	2 18	18 22	0 15	19 31	1 40	10 29	10 57	13 55	13 44	13 58	17 42	5 47
F 26	21 9	17 40	4 43	25 38	2 12	17 37	0 54	20 16	1 31	21 46	0 27	9 1	2 18	18 22	0 15	19 31	1 40	10 30	10 57	13 59	13 45	14 0	17 42	5 46
S 27	21 19	19 21	4 7	25 37	2 9	17 57	0 52	20 6	1 30	21 48	0 27	9 3	2 18	18 21	0 15	19 30	1 40	10 30	10 57	14 2	13 46	14 1	17 42	5 46
S 28	21 29	19 40	3 14	25 35	2 6	18 17	0 50	19 57	1 29	21 50	0 27	9 6	2 18	18 20	0 15	19 30	1 40	10 30	10 57	14 4	13 47	14 3	17 42	5 46
M29	21 39	18 41	2 10	25 31	2 2	18 37	0 48	19 48	1 29	21 52	0 27	9 8	2 18	18 20	0 15	19 30	1 40	10 30	10 57	14 6	13 48	14 5	17 42	5 46
T 30	21 48	16 36	1 1	25 25	1 57	18 56	0 46	19 38	1 28	21 54	0 26	9 10	2 18	18 19	0 15	19 30	1 40	10 31	10 57	14 6	13 49	14 6	17 42	5 46
W31	21n57	13n39	0n10	25n18	1n51	19n14	0 s43	19n29	1n27	21n56	0 s26	9n12	2s18	18 s 19	0n15	19s29	1n40	10n31	10s57	14n 6	13n50	14s 8	17n43	5 s46

Julian Day Number = 2322004.5, Delta T = 46.58 sec Ecliptic obliquity =  $23^{\circ}29'00$ , Nutation =  $-0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}47'24$ , Lahiri =  $18^{\circ}54'24$ Greg. Calendar

JUNE 1645 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ф	ð	4	ħ	)∤(	卉	Р	n	v	Ç	ķ	Day
T 1	16 39 4	10 <b>Ⅲ</b> 37'52	7 <b>m</b> ) 8	4923	0 <b>П</b> 4	9 <b>Ω</b> 27	13 <b>I</b> I 0	29 <b>Υ</b> 44	22°R58	4°R43	5 <b>Ⅱ</b> 48	22°R17	23\$\Omega\$ 5	25M25	28 <b>Ⅱ</b> 42	T 1
F 2	16 43 0	11°35'15	19°44	5°28	1°18	10° 2	13°13	29°50	22M55	4 <b>₹</b> 141	5°49	22 <b>Ω</b> 17	23° 2	25°32	28°48	F 2
S 3	16 46 57	12°32'37	2 <b>♀</b> 4	6°30	2°31	10°36	13°27	29°57	22°53	4°39	5°51	22°15	22°59	25°38	28°54	S 3
S 4	16 50 53	13°29'58	14°11	7°28	3°45	11°11	13°41	0 <b>ප</b> 3	22°51	4°38	5°52	22°12	22°55	25°45	29° 0	S 4
M 5	16 54 50	14°27'18	26° 9	8°23	4°58	11°45	13°55	0° 9	22°48	4°36	5°54	22° 5	22°52	25°52	29° 6	M 5
T 6	16 58 46	15°24'36	8M 3	9°14	6°12	12°20	14° 9	0°15	22°46	4°35	5°55	21°56	22°49	25°59	29°12	T 6
W 7	17 2 43	16°21'54	19°55	10° 1	7°25	12°54	14°23	0°21	22°44	4°33	5°56	21°45	22°46	26° 5	29°18	W 7
T 8	17 6 40	17°19'12	1 <b>√</b> 148	10°45	8°39	13°29	14°37	0°27	22°42	4°31	5°58	21°34	22°43	26°12	29°23	T 8
F 9	17 10 36	18°16'28	13°43	11°24	9°52	14° 4	14°51	0°33	22°40	4°30	5°59	21°22	22°40	26°19	29°29	F 9
S 10	17 14 33	19°13'44	25°42	11°59	11° 6	14°39	15° 4	0°39	22°37	4°28	6° 0	21°11	22°36	26°25	29°35	S 10
S 11	17 18 29	20°10'59	7 <b>云</b> 46	12°30	12°19	15°13	15°18	0°45	22°35	4°27	6° 2	21° 2	22°33	26°32	29°41	S 11
M12	17 22 26	21° 8'14	19°57	12°57	13°33	15°48	15°32	0°51	22°33	4°25	6° 3	20°56	22°30	26°39	29°47	M12
T 13	17 26 22	22° 5'29	2≈16	13°19	14°46	16°23	15°46	0°57	22°31	4°24	6° 4	20°52	22°27	26°46	29°53	T 13
W14	17 30 19	23° 2'43	14°46	13°37	16° 0	16°58	16° 0	1° 3	22°29	4°22	6° 6	20°50	22°24	26°52	29°59	W14
T 15	17 34 15	23°59'56	27°30	13°50	17°14	17°33	16°14	1° 8	22°27	4°21	6° 7	20°D50	22°21	26°59	0ණ 5	T 15
F 16	17 38 12	24°57'10	10 <b>)</b> (31	13°59	18°27	18° 9	16°27	1°14	22°25	4°19	6° 8	20°51	22°17	27° 6	0°11	F 16
S 17	17 42 9	25°54'23	23°51	14°R 3	19°41	18°44	16°41	1°19	22°23	4°18	6°10	20°R51	22°14	27°13	0°17	S 17
S 18	17 46 5	26°51'37	7 <b>Y</b> 34	14° 3	20°54	19°19	16°55	1°25	22°21	4°16	6°11	20°51	22°11	27°19	0°23	S 18
M19	17 50 2	27°48'50	21°40	13°58	22° 8	19°54	17° 9	1°30	22°19	4°15	6°12	20°49	22° 8	27°26	0°29	M19
T 20	17 53 58	28°46'03	6 <b>8</b> 9	13°49	23°22	20°30	17°22	1°35	22°17	4°13	6°14	20°44	22° 5	27°33	0°36	T 20
W21	17 57 55	29°43'17	20°58	13°35	24°35	21° 5	17°36	1°41	22°16	4°12	6°15	20°38	22° 1	27°39	0°42	W21
T 22	18 151	09540'30	5 <b>II</b> 59	13°18	25°49	21°41	17°50	1°46	22°14	4°10	6°16	20°31	21°58	27°46	0°48	T 22
F 23	18 5 48	1°37'43	21° 4	12°56	27° 2	22°16	18° 3	1°51	22°12	4° 9	6°17	20°24	21°55	27°53	0°54	F 23
S 24	18 9 44	2°34'57	6 <b>9</b> 3	12°31	28°16	22°52	18°17	1°56	22°10	4° 8	6°19	20°17	21°52	28° 0	1° 0	S 24
S 25	18 13 41	3°32'10	20°48	12° 3	29°30	23°28	18°31	2° 1	22° 9	4° 6	6°20	20°13	21°49	28° 6	1° 6	S 25
M26	18 17 38	4°29'23	5 <b>Ω</b> 10	11°31	09544	24° 3	18°44	2° 6	22° 7	4° 5	6°21	20°10	21°46	28°13	1°12	M26
T 27	18 21 34	5°26'35	19° 6	10°58	1°57	24°39	18°58	2°10	22° 5	4° 4	6°22	20°D 9	21°42	28°20	1°18	T 27
W28	18 25 31	6°23'47	2 Mp 36	10°23	3°11	25°15	19°11	2°15	22° 4	4° 2	6°24	20° 9	21°39	28°27	1°24	W28
T 29	18 29 27	7°20'59	15°39	9°46	4°25	25°51	19°25	2°20	22° 2	4° 1	6°25	20°11	21°36	28°33	1°30	T 29
F 30	18 33 24	89518'11	28 Mp 19	995 9	5 <b>93</b> 8	$26\Omega 27$	19 <b>Ⅲ</b> 38	2824	22 <b>M</b> 1	4 <b>₹</b> 0	6 <b>Ⅱ</b> 26	$20\Omega 12$	$21\Omega_{33}$	28 <b>M</b> .40	19536	F 30

Day	0	D	ğ	Ф	♂	4	ħ	)∤(	¥	Р	w v	Ç	Ŷ,
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl dec	l decl	decl lat
T 1 F 2 S 3	22n 5 22 13 22 21	6 13 2 20	25 0 1	37 19 49 0 39	19 9 1 26	21n58 0s26 22 0 0 26 22 2 0 26	9 16 2 19	18 17 0 15	19 29 1 40	10n31 10s57 10 31 10 57 10 32 10 57	14 6 13 5	1 14s 9 2 14 11 3 14 13	17 43 5 46
S 4 M 5 T 6 W 7 T 8	22 28 22 35 22 41 22 47 22 53	5 53 4 32 9 35 4 54 12 54 5 2	24 24 1 24 11 1 23 56 0	11 20 38 0 32 1 20 53 0 30	18 18 1 23		9 23 2 19 9 25 2 19 9 27 2 19	18 16 0 15 18 15 0 15 18 15 0 15	19 28 1 40 19 28 1 40 19 27 1 40		14 10 13 5 14 13 13 5 14 17 13 5	5 14 16 6 14 17 7 14 19	17 43 5 46 17 43 5 46 17 43 5 46
F 9 S 10	23 3	19 15 4 10	23 10 0	13 21 48 0 21	17 46 1 21	22 12 0 25 22 14 0 25	9 32 2 20	18 13 0 15	19 27 1 40	10 33 10 57 10 33 10 57	14 28 14	0 14 24	17 44 5 45
S 11 M12 T 13 W14 T 15 F 16 S 17	23 11 23 15 23 18	19 24 2 37 18 6 1 38 15 55 0 32 12 55 0s36 9 14 1 44	22 37 0 22 20 0 22 4 0 21 47 0 21 30 1	14 22 12 0 16 29 22 23 0 13 44 22 34 0 11 59 22 43 0 9 15 22 53 0 6	17 24 1 20 17 13 1 19 17 1 1 18 16 50 1 18 16 39 1 17	22 15 0 25 22 17 0 25 22 18 0 25 22 20 0 25 22 21 0 25 22 23 0 25 22 24 0 25	9 36 2 20 9 38 2 20 9 40 2 20 9 42 2 21	18 12 0 15 18 11 0 15 18 11 0 15 18 10 0 15 18 10 0 15	19 26 1 39 19 26 1 39 19 26 1 39 19 25 1 39 19 25 1 39	10 34 10 57 10 34 10 57	14 33 14 14 34 14 14 35 14 14 35 14 14 34 14	1 14 25 2 14 27 3 14 28 4 14 30 5 14 32 6 14 33 7 14 35	17 44 5 45 17 44 5 45 17 44 5 45 17 44 5 45 17 44 5 45
S 18 M19 T 20 W21 T 22 F 23 S 24	23 27 23 28 23 29 23 29 23 29 23 28 23 27	4n19 4 28 8 55 4 57 13 6 5 7 16 29 4 56 18 47 4 24	20 42 2 20 27 2 20 12 2 19 58 2 19 45 3	4 23 16 0n 1 20 23 22 0 3 36 23 28 0 6 52 23 33 0 8	16 4 1 15 15 52 1 15 15 40 1 14 15 28 1 13 15 16 1 13	22 26 0 25 22 27 0 25 22 28 0 25 22 30 0 24 22 31 0 24 22 32 0 24 22 34 0 24	9 48 2 21 9 50 2 22 9 52 2 22 9 53 2 22 9 55 2 22	18 9 0 15 18 8 0 15 18 8 0 15 18 7 0 15 18 7 0 15	19 24 1 39 19 24 1 39 19 24 1 39 19 24 1 39 19 23 1 39	10 35 10 58 10 35 10 58	14 35 14 1 14 36 14 1 14 38 14 1 14 41 14 1 14 43 14 1	0 14 38 1 14 39 2 14 41 3 14 42 4 14 44	17 43 5 46 17 43 5 46 17 43 5 46 17 43 5 46 17 43 5 46
T 27 W28 T 29	23 26 23 24 23 22 23 20 23 17 23n13	17 43 1 20 15 2 0 6 11 37 1n 7 7 43 2 14	19 11 3 19 1 4 18 53 4 18 46 4	49 23 46 0 17 1 23 48 0 20 12 23 49 0 22 22 23 49 0 24	14 38 1 11 14 26 1 10 14 13 1 10 14 0 1 9	22 35 0 24 22 36 0 24 22 37 0 24 22 39 0 24 22 40 0 24 22n41 0 s24	9 59 2 23 10 1 2 23 10 2 2 23 10 4 2 23	18 6 0 15 18 5 0 15 18 5 0 15 18 4 0 15	19 23 1 39 19 23 1 39 19 22 1 39 19 22 1 39	10 36 10 58	14 47 14 1 14 48 14 1 14 48 14 1 14 47 14 2	7 14 49 8 14 50 9 14 52 0 14 53	17 43 5 46 17 42 5 46 17 42 5 46 17 42 5 46

 $\label{eq:Julian Day Number = 2322035.5, Delta\ T = 46.52\ sec} \\ Ecliptic\ obliquity = 23°29'00, Nutation = -0°00'11, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 19°47'28, Lahiri = 18°54'28Greg.\ Calendar$ 

JULY 1645 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ	)∤(	¥	Р	n	v	Ç	ķ	Day
S 1	18 37 20	99515'22	10 <b>≏</b> 41	8°R32	6952	27 <b>0</b> 3	19 <b>Ⅱ</b> 52	2 <b>8</b> 29	21°R59	3°R58	6 <b>Ⅱ</b> 27	20°R12	21 <b>\O</b> 30	28 <b>M</b> 47	19542	S 1
S 2	18 41 17	10°12'33	22°49	7955	8° 6	27°39	20° 5	2°33	21 <b>M</b> 58	3 <b>₹</b> 57	6°28	20Ω11	21°27	28°53	1°48	S 2
M 3	18 45 13	11° 9'45	4 <b>M</b> .48	7°20	9°20	28°15	20°19	2°38	21°57	3°56	6°29	20° 9	21°23	29° 0	1°54	M 3
T 4	18 49 10	12° 6'56	16°41	6°47	10°33	28°51	20°32	2°42	21°55	3°55	6°31	20° 5	21°20	29° 7	2° 0	T 4
W 5	18 53 7	13° 4'07	28°33	6°16	11°47	29°27	20°45	2°46	21°54	3°54	6°32	19°59	21°17	29°14	2° 6	W 5
T 6	18 57 3	14° 1'18	10 <b>×</b> 28	5°48	13° 1	0 <b>m</b> y 3	20°59	2°50	21°53	3°52	6°33	19°53	21°14	29°20	2°12	T 6
F 7	19 1 0	14°58'29	22°27	5°24	14°15	0°40	21°12	2°54	21°52	3°51	6°34	19°47	21°11	29°27	2°18	F 7
S 8	19 4 56	15°55'40	4 <b>궁</b> 33	5° 4	15°28	1°16	21°25	2°58	21°51	3°50	6°35	19°41	21° 7	29°34	2°24	S 8
S 9	19 8 53	16°52'52	16°47	4°49	16°42	1°52	21°38	3° 2	21°49	3°49	6°36	19°36	21° 4	29°40	2°30	S 9
M10	19 12 49	17°50'04	29°11	4°38	17°56	2°29	21°51	3° 5	21°48	3°48	6°37	19°33	21° 1	29°47	2°36	M10
T 11	19 16 46	18°47'16	11 <b>≈</b> 46	4°32	19°10	3° 5	22° 4	3° 9	21°47	3°47	6°38	19°32	20°58	29°54	2°42	T 11
W12	19 20 43	19°44'29	24°32	4°D31	20°24	3°42	22°17	3°13	21°46	3°46	6°39	19°D31	20°55	0 <b>×</b> 1	2°48	W12
T 13	19 24 39	20°41'42	7 <b>)</b> €32	4°36	21°38	4°19	22°30	3°16	21°46	3°45	6°40	19°32	20°52	0° 7	2°54	T 13
F 14	19 28 36	21°38'56	20°45	4°46	22°51	4°55	22°43	3°20	21°45	3°44	6°42	19°34	20°48	0°14	3° 0	F 14
S 15	19 32 32	22°36'11	4 <b>Υ</b> 14	5° 2	24° 5	5°32	22°56	3°23	21°44	3°43	6°43	19°35	20°45	0°21	3° 6	S 15
S 16	19 36 29	23°33'27	17°58	5°24	25°19	6° 9	23° 9	3°26	21°43	3°42	6°44	19°R36	20°42	0°28	3°11	S 16
M17	19 40 25	24°30'43	2 <b>8</b> 0	5°52	26°33	6°45	23°22	3°29	21°42	3°41	6°45	19°36	20°39	0°34	3°17	M17
T 18	19 44 22	25°28'01	16°17	6°25	27°47	7°22	23°34	3°32	21°42	3°40	6°45	19°35	20°36	0°41	3°23	T 18
W19	19 48 18	26°25'19	0 <b>Ⅱ</b> 47	7° 4	29° 1	7°59	23°47	3°35	21°41	3°40	6°46	19°33	20°32	0°48	3°29	W19
T 20	19 52 15	27°22'38	15°25	7°48	0 <b>Ω</b> 15	8°36	24° 0	3°38	21°41	3°39	6°47	19°30	20°29	0°54	3°35	T 20
F 21	19 56 12	28°19'59	0ණ 6	8°39	1°29	9°13	24°12	3°41	21°40	3°38	6°48	19°27	20°26	1° 1	3°40	F 21
S 22	20 0 8	29°17'20	14°44	9°35	2°43	9°50	24°25	3°43	21°40	3°37	6°49	19°25	20°23	1° 8	3°46	S 22
S 23	20 4 5	0 <b>Ω</b> 14'42	29°11	10°36	3°57	10°27	24°37	3°46	21°39	3°37	6°50	19°23	20°20	1°15	3°52	S 23
M24	20 8 1	1°12'04	13 <b>Ω</b> 21	11°43	5°11	11° 4	24°50	3°48	21°39	3°36	6°51	19°D22	20°17	1°21	3°57	M24
T 25	20 11 58	2° 9'28	27°11	12°55	6°25	11°42	25° 2	3°51	21°38	3°35	6°52	19°22	20°13	1°28	4° 3	T 25
W26	20 15 54	3° 6'52	10 <b>m</b> 38	14°12	7°39	12°19	25°14	3°53	21°38	3°35	6°53	19°23	20°10	1°35	4° 9	W26
T 27	20 19 51	4° 4'17	23°43	15°34	8°53	12°56	25°26	3°55	21°38	3°34	6°54	19°24	20° 7	1°41	4°14	T 27
F 28	20 23 47	5° 1'42	6 <b>≏</b> 25	17° 1	10° 7	13°33	25°39	3°57	21°38	3°33	6°54	19°25	20° 4	1°48	4°20	F 28
S 29	20 27 44	5°59'08	18°50	18°32	11°21	14°11	25°51	3°59	21°38	3°33	6°55	19°26	20° 1	1°55	4°25	S 29
S 30	20 31 41	6°56'35	1 <b>M</b> 0	20° 8	12°35	14°48	26° 3	4° 1	21°38	3°32	6°56	19°27	19°58	2° 2	4°31	S 30
M31	20 35 37	$7\Omega 54'02$	13 <b>M</b> 0	219548	13 <b>Ω</b> 49	15 <b>m</b> 26	26耳15	4 <b>8</b> 2	21°D38	3 <b>∡</b> 32	6 <b>Ⅱ</b> 57	19°R27	19 <b>Ω</b> 54	2 <b>,</b> ₹ 8	4936	M31

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S 1	23n10	0s34	4n 0	18n36	4 s 3 7	23n47	0n29	13n35	1n 8	22n42	0 s24	10n 6	2 s24	18s 4	0n15	19s22	1n39	10n36	10s58	14n47	14n22	14s56	17n42	5 s47
S 2	23 5	4 37	4 36	18 32	4 43	23 45	0 31	13 22	1 7	22 43	0 24	10 8	2 24	18 3	0 15	19 22	1 39	10 36	10 58	14 47	14 23	14 58	17 42	5 47
M 3	23 1	8 26		18 31	4 47		0 33			22 44	0 24							10 37					17 41	5 47
T 4	22 56	-	-	18 30	4 49			12 55		22 45	0 23		2 24				1 39				14 25		17 41	5 47
W 5				18 31		23 35				22 46	0 23	-	2 25				1 39				14 26		17 41	5 47
T 6	-			18 33		23 30		-		22 47	0 23	-	2 25				1 39				14 27		17 41	5 47
F 7	22 38 22 32			18 37		23 25 23 19	0 42	12 15		22 48 22 49		10 14 10 15	2 25			19 21 19 20	1 39	10 37 10 37					17 40 17 40	5 48
	22 32	19 44	3 41	18 42	4 41	23 19	0 44	12 2	1 3	22 49	0 23	10 15	2 25	18 1	0 13	19 20	1 39	10 3/	10 39	14 30	14 29	15 /	1/ 40	5 48
S 9	22 25			18 48		23 12		11 48		22 50		10 16	2 26	-	0 15		1 39							5 48
M10	-			18 55	4 29	_		11 35		22 51	0 23		2 26	-	0 15		1 39				14 31			5 48
T 11	-		0 42		4 21			11 21		22 52	0 23		2 26		0 15		1 39				14 32			5 48
W12				19 13		22 47	0 52		1 1			10 19	2 26		0 15		1 38				14 33			5 48
T 13	21 53			19 23	4 2			10 53		22 53		10 20	2 27				1 38				14 34			5 49
F 14 S 15	21 44 21 35			19 33 19 45		22 27		10 39 10 25		22 54 22 55	0 23	10 21 10 22	2 27 2 27			19 20 19 19	1 38	10 37 10 37			14 35 14 36			5 49 5 49
3 13	21 33	1 42	3 41	19 43	3 39	22 16	0 37	10 23	0 39	22 33	0 23	10 22	2 21	18 0	0 14	19 19	1 36	10 37	11 0	14 36	14 30	13 16	1/ 30	3 49
1	21 25		4 28	19 57	3 26	22 5	0 59	10 11		22 56		10 22	2 27		0 14	19 19	1 38	10 37	-				17 37	5 49
M17	21 15	,		20 9		21 53	1 1	9 57		22 56	0 23		2 27			19 19							17 37	5 50
T 18	-			20 21		21 40	1 2	9 42		22 57	0 23			17 59		19 19					14 39			5 50
W19	20 54			20 33		21 26	1 4	9 28		22 58	0 22			17 59		19 19					14 40			5 50
T 20	20 43			20 45		21 12	1 5	9 14		22 58		10 26		17 59		19 19					14 41			5 50
F 21	20 32			20 57		20 57	1 7	8 59		22 59	0 22			17 59		19 19					14 42			5 51
S 22	20 20	19 42	2 59	21 8	2 1	20 42	1 8	8 45	0 55	23 0	0 22	10 27	2 29	17 59	0 14	19 19	1 38	10 37	11 1	15 2	14 43	15 28	17 35	5 51
S 23	20 8	18 35	1 49	21 18	1 46	20 26	1 10	8 30	0 54	23 0	0 22	10 27	2 29	17 59	0 14	19 19	1 38	10 37	11 1	15 2	14 44	15 30	17 35	5 51
M24	19 56	16 19	0 33	21 28	1 31	20 10	1 11	8 15	0 54	23 1	0 22	10 28	2 29	17 59	0 14	19 19	1 38	10 37	11 1	15 2	14 45	15 31	17 34	5 51
T 25	19 43			21 36	1 16		1 13	8 0	0 53		0 22			17 59		19 18					14 46			5 52
W26	19 30	-		21 43	1 1		1 14	7 46	0 52		0 22			17 59		19 18					14 47			5 52
T 27	19 16			21 48	0 47		1 15	7 31	0 52		0 22			17 59		19 18					14 48			5 52
F 28	19 3		3 52		0 33		1 16	7 16	0 51		0 22			17 59		19 18					14 49			5 53
S 29	18 49	3 s 1 1	4 32	21 53	0 19	18 39	1 17	7 1	0 51	23 3	0 22	10 30	2 30	17 59	0 14	19 18	1 38	10 37	11 2	15 1	14 50	15 39	17 32	5 53
S 30	18 34	7 9	5 0	21 53	0 6	18 19	1 18	6 46	0 50	23 4	0 22	10 31	2 31	17 59	0 14	19 18	1 38	10 37	11 2	15 1	14 51	15 40	17 31	5 53
M31	18n20	10 s46	5n14	21n50	0n 7	17n58	1n19	6n31	0n49	23n 4	0 s22	10n31	2 s 3 1	17 s59	0n14	19s18	1n38	10n37	11s 2	15n 1	14n52	15 s42	17n31	5 s54

 $\label{eq:Julian Day Number = 2322065.5, Delta T = 46.46 sec} \\ Ecliptic obliquity = 23°29'00, Nutation = -0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°47'32, Lahiri = 18°54'33Greg. Calendar$ 

AUGUST 1645 GC 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	♂	4	ħ	)∤(	卉	Р	S.	S	Ç	ķ	Day
T 1	20 39 34	8 <b>Ω</b> 51'31	24M54	23932	15 <b>Ω</b> 3	16Mp 3	26 <b>II</b> 26	4 <b>8</b> 4	21 <b>M</b> .38	3°R31	6 <b>I</b> I57	19°R26	19 <b>Ω</b> 51	2 <b>√</b> 15	49542	T 1
W 2	20 43 30	9°49'00	6 <b>∡</b> 747	25°19	16°17	16°41	26°38	4° 6	21°38	3 <b>₹</b> 31	6°58	19 <b>Ω</b> 26	19°48	2°22	4°47	W 2
T 3	20 47 27	10°46'30	18°44	27° 9	17°31	17°19	26°50	4° 7	21°38	3°31	6°59	19°24	19°45	2°29	4°52	T 3
F 4	20 51 23	11°44'01	0 <b>궁</b> 47	29° 2	18°45	17°56	27° 2	4° 8	21°38	3°30	7° 0	19°23	19°42	2°35	4°58	F 4
S 5	20 55 20	12°41'32	13° 0	0 <b>Ω</b> 58	19°59	18°34	27°13	4°10	21°38	3°30	7° 0	19°22	19°38	2°42	5° 3	S 5
S 6	20 59 16	13°39'05	25°25	2°55	21°13	19°12	27°25	4°11	21°39	3°29	7° 1	19°22	19°35	2°49	5° 8	S 6
M 7	21 3 13	14°36'39	8≈ 4	4°54	22°28	19°50	27°36	4°12	21°39	3°29	7° 2	19°21	19°32	2°55	5°13	M 7
T 8	21 7 10	15°34'14	20°57	6°55	23°42	20°28	27°47	4°13	21°39	3°29	7° 2	19°D21	19°29	3° 2	5°18	T 8
W 9	21 11 6	16°31'51	4 <b>光</b> 6	8°56	24°56	21° 6	27°59	4°13	21°40	3°29	7° 3	19°21	19°26	3° 9	5°24	W 9
T 10	21 15 3	17°29'28	17°28	10°58	26°10	21°44	28°10	4°14	21°40	3°29	7° 3	19°22	19°23	3°16	5°29	T 10
F 11	21 18 59	18°27'07	1 <b>Υ</b> 4	13° 0	27°24	22°22	28°21	4°15	21°41	3°28	7° 4	19°22	19°19	3°22	5°34	F 11
S 12	21 22 56	19°24'48	14°51	15° 2	28°38	23° 0	28°32	4°15	21°42	3°28	7° 4	19°R22	19°16	3°29	5°39	S 12
S 13	21 26 52	20°22'30	28°49	17° 3	29°52	23°38	28°43	4°16	21°42	3°28	7° 5	19°22	19°13	3°36	5°43	S 13
M14	21 30 49	21°20'14	12854	19° 5	1 Mp 6	24°16	28°53	4°16	21°43	3°28	7° 5	19°22	19°10	3°42	5°48	M14
T 15	21 34 45	22°17'59	27° 7	21° 6	2°21	24°54	29° 4	4°16	21°44	3°D28	7° 6	19°D22	19° 7	3°49	5°53	T 15
W16	21 38 42	23°15'47	11 <b>II</b> 23	23° 5	3°35	25°32	29°15	4°R16	21°45	3°28	7° 6	19°22	19° 4	3°56	5°58	W16
T 17	21 42 39	24°13'36	25°40	25° 5	4°49	26°11	29°25	4°16	21°45	3°28	7° 7	19°22	19° 0	4° 3	6° 3	T 17
F 18	21 46 35	25°11'27	9955	27° 3	6° 3	26°49	29°36	4°16	21°46	3°28	7° 7	19°23	18°57	4° 9	6° 7	F 18
S 19	21 50 32	26° 9'19	24° 5	28°59	7°17	27°28	29°46	4°16	21°47	3°28	7° 8	19°23	18°54	4°16	6°12	S 19
S 20	21 54 28	27° 7'13	8 <b>N</b> 6	0 <b>m</b> 55	8°31	28° 6	29°56	4°15	21°48	3°29	7° 8	19°24	18°51	4°23	6°17	S 20
M21	21 58 25	28° 5'09	21°54	2°50	9°46	28°45	0න 6	4°15	21°49	3°29	7° 8	19°R24	18°48	4°29	6°21	M21
T 22	22 2 21	29° 3'06	5 Mp 28	4°43	11° 0	29°23	0°17	4°14	21°51	3°29	7° 9	19°23	18°44	4°36	6°26	T 22
W23	22 6 18	0 <b>m</b> ) 1'05	18°44	6°35	12°14	0요 2	0°26	4°14	21°52	3°29	7° 9	19°23	18°41	4°43	6°30	W23
T 24	22 10 14	0°59'06	1 <b>≏</b> 42	8°26	13°28	0°41	0°36	4°13	21°53	3°29	7° 9	19°21	18°38	4°50	6°34	T 24
F 25	22 14 11	1°57'07	14°22	10°15	14°43	1°20	0°46	4°12	21°54	3°30	7°10	19°19	18°35	4°56	6°39	F 25
S 26	22 18 7	2°55'11	26°46	12° 4	15°57	1°58	0°56	4°11	21°56	3°30	7°10	19°18	18°32	5° 3	6°43	S 26
S 27	22 22 4	3°53'15	8 <b>M</b> .56	13°51	17°11	2°37	1° 5	4°10	21°57	3°30	7°10	19°16	18°29	5°10	6°47	S 27
M28	22 26 1	4°51'21	20°56	15°36	18°25	3°16	1°14	4° 9	21°58	3°31	7°10	19°15	18°25	5°16	6°51	M28
T 29	22 29 57	5°49'29	2 <b>×</b> 751	17°21	19°39	3°55	1°24	4° 7	22° 0	3°31	7°10	19°D14	18°22	5°23	6°55	T 29
W30	22 33 54	6°47'38	14°43	19° 4	20°54	4°34	1°33	4° 6	22° 1	3°32	7°11	19°14	18°19	5°30	6°59	W30
T 31	22 37 50	7 <b>m</b> 45'49	26 <b>×</b> 740	20 <b>m</b> 46	22 Mp 8	5 <b>₽</b> 13	19542	4 <b>8</b> 4	22 <b>M</b> 3	3 <b>₹</b> 32	7 <b>Ⅱ</b> 11	19 <b>Ω</b> 15	18 <b>Ω</b> 16	5 <b>₹</b> 37	7 <b>95</b> 3	T 31

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T 1 W 2	18n 5 17 49		15 21n45 2 21 37		17n38 17 16	1n20 1 21	6n16	0n49 0 48	23n 4 23 5	0 s22 0 22			17 s59 17 59				10n37 11s 10 37 11		14n53 14 54			5 s54 5 54
T 3 F 4 S 5		19 31 3	36 21 27 58 21 14 8 20 58	0 51	16 55 16 32 16 10	1 22 1 22 1 23	5 45 5 30 5 14	0 48 0 47 0 46	23 6	0 22 0 21 0 21	10 32	2 32	17 59 17 59 17 59	0 14	19 18	1 37	10 37 11 10 37 11 10 37 11	3 15 2	14 55 14 56 14 57	15 48	17 29	5 55 5 55 5 55
S 6 M 7		18 59 2 17 17 1	9 20 39 2 20 19	1 9 1 16	15 46 15 23	1 24 1 24	4 59 4 44	0 46 0 45	23 6 23 6	0 21 0 21	10 32 10 33	2 33 2 33	17 59 17 59	0 14 0 14	19 18 19 18	1 37 1 37	10 37 11 10 37 11	3 15 2 3 15 3	14 58 14 59	15 51 15 52	17 28	5 56 5 56
T 8 W 9 T 10	-	11 17 1	5 9 19 55 21 19 29 30 19 1	1 29 1 34	14 34 14 10	1 25 1 25 1 26	4 28 4 13 3 57	0 45 0 44 0 43	23 7 23 7	0 21 0 21 0 21	10 33 10 33	2 33 2 34		0 14	19 18 19 18	1 37 1 37	10 37 11 10 37 11 10 37 11	4 15 3 4 15 3 4 15 3	15 1 15 2	15 55 15 56	17 25	5 56 5 57 5 57
F 11 S 12	15 19 15 2	1n51 4	31 18 30 21 17 58	1 41	13 19	1 26 1 26	3 41 3 26	0 43 0 42	23 8	0 21 0 21	10 33	2 34 2 34	18 0	0 14	19 18	1 37	10 36 11	-	15 4	15 59	17 24	5 58 5 58
S 13 M14 T 15	14 43 14 25 14 6		57 17 23 15 16 47 14 16 10	_		1 26 1 26 1 26	3 10 2 54 2 39	0 42 0 41 0 40	23 8	0 21 0 21 0 21	10 32 10 32 10 32	2 34 2 35 2 35	18 0		19 18	1 37	10 36 11 10 36 11 10 36 11	4 15 3 5 15 3 5 15 3	15 6	-	17 23 17 23 17 22	5 58 5 59 5 59
W16 T 17 F 18	13 28 13 9	19 46 3	16 14 51 22 14 9		11 33 11 6 10 38	1 26 1 26 1 26	2 23 2 7 1 51	0 39 0 39	23 8 23 8	0 21 0 21 0 21	10 32 10 32 10 31		18 1 18 1	0 14 0 14 0 14	19 18 19 19	1 37 1 36	10 36 11	5 15 2 5 15 2 5 15 2	15 9 15 10		17 21 17 20	6 0 6 0 6 1
S 19 S 20 M21		17 16 1		1 41	9 42	1 26 1 25	1 35	0 38	23 8	0 21		2 36	18 2	0 14	19 19	1 36	10 35 11 10 35 11	6 15 2		16 11		6 1
T 22 W23	-	10 53 1	114 12 0 28 11 16 35 10 31	1 35	9 14 8 46 8 17	1 25 1 25 1 24	1 4 0 48 0 32	0 37 0 36 0 36	23 9	0 20 0 20 0 20	10 30	2 36 2 37 2 37	18 2	0 14	19 19	1 36	10 35 11	-	15 13 15 14 15 15	-	17 18	6 2 6 2 6 3
T 24 F 25 S 26	11 9 10 48 10 27	1 s41 4	33 9 46 19 9 0 52 8 15	1 22	7 48 7 18 6 49	1 24 1 23 1 22	0 16 0s 0 0 16	0 35 0 34 0 34	23 9	0 20 0 20 0 20	10 28	2 37 2 37 2 38	18 3	0 14	19 19	1 36	10 35 11	7 15 3 7 15 3 7 15 4		16 18	17 16	6 3 6 4 6 4
S 27 M28	10 6 9 45	9 35 5 12 57 5	11 7 29 16 6 43	1 12 1 7	6 19 5 49	1 21 1 21	0 32 0 48	0 33 0 32	23 9 23 9	0 20 0 20	10 27 10 27	2 38 2 38	18 4 18 5	0 14 0 14	19 19 19 20	1 36 1 36	10 34 11 10 34 11	7 15 4 7 15 5	15 19 15 20	16 21 16 22	17 14 17 13	6 5 6 5
T 29 W30 T 31	9 2	15 45 5 17 53 4 19s16 4n	7 5 57 45 5 11 111 4n25	0 55	5 19 4 49 4n19	1 20 1 19 1n18	1 4 1 20 1 s37	0 32 0 31 0n31		0 20	10 26 10 25 10n24	2 38 2 39 2 s 39		0 13		1 36	10 34 11		15 22		17 12	6 6 6 6 6s 7

Julian Day Number = 2322096.5, Delta T = 46.40 sec Ecliptic obliquity =  $23^{\circ}29'00$ , Nutation = -  $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}47'36$ , Lahiri =  $18^{\circ}54'37$ Greg. Calendar

SEPTEMBER 1645 GC 00:00 UT

JLI	LINDLK	1073 U	C												00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	¥	В	S.	v	Ç	ķ	Day
F 1	22 41 47	8 mp 44'01	8 <b>국</b> 44	22 <b>m</b> 27	23 m/22	5 <b>Ω</b> 52	1951	4°R 3	22 <b>M</b> 5	3 <b>₹</b> 33	7 <b>I</b> 11	19 <b>Ω</b> 17	18 <b>Ω</b> 13	5 <b>√</b> 43	799 7	F 1
S 2	22 45 43	9°42'15	21° 0	24° 7	24°36	6°31	1°59	4 <b>8</b> 1	22° 6	3°33	7°11	19°18	18°10	5°50	7°11	S 2
S 3	22 49 40	10°40'30	3≈33	25°45	25°50	7°11	2° 8	3°59	22° 8	3°34	7°11	19°20	18° 6	5°57	7°15	S 3
M 4	22 53 36	11°38'47	16°23	27°23	27° 5	7°50	2°17	3°57	22°10	3°35	7°11	19°R20	18° 3	6° 4	7°18	M 4
T 5	22 57 33	12°37'05	29°34	28°59	28°19	8°29	2°25	3°55	22°11	3°35	7°11	19°20	18° 0	6°10	7°22	T 5
W 6	23 1 30	13°35'25	13 <b>∺</b> 4	0 <b>ჲ</b> 34	29°33	9° 9	2°33	3°53	22°13	3°36	7°R11	19°18	17°57	6°17	7°25	W 6
T 7	23 5 26	14°33'47	26°53	2° 8	0 <b>ჲ</b> 47	9°48	2°41	3°51	22°15	3°37	7°11	19°16	17°54	6°24	7°29	T 7
F 8	23 9 23	15°32'11	10 <b>Y</b> 57	3°41	2° 1	10°28	2°49	3°49	22°17	3°37	7°11	19°12	17°50	6°30	7°32	F 8
S 9	23 13 19	16°30'37	25°11	5°13	3°16	11° 7	2°57	3°46	22°19	3°38	7°11	19° 8	17°47	6°37	7°36	S 9
S 10	23 17 16	17°29'05	9 <b>8</b> 31	6°43	4°30	11°47	3° 5	3°44	22°21	3°39	7°11	19° 5	17°44	6°44	7°39	S 10
M11	23 21 12	18°27'36	23°52	8°13	5°44	12°26	3°12	3°41	22°23	3°40	7°11	19° 2	17°41	6°51	7°42	M11
T 12	23 25 9	19°26'08	8 <b>I</b> I1	9°41	6°58	13° 6	3°20	3°39	22°25	3°41	7°11	19° 0	17°38	6°57	7°45	T 12
W13	23 29 5	20°24'43	22°23	11° 9	8°12	13°46	3°27	3°36	22°27	3°42	7°11	18°D59	17°35	7° 4	7°48	W13
T 14	23 33 2	21°23'20	6928	12°35	9°27	14°25	3°34	3°33	22°30	3°43	7°10	19° 0	17°31	7°11	7°51	T 14
F 15	23 36 59	22°22'00	20°23	14° 0	10°41	15° 5	3°41	3°30	22°32	3°44	7°10	19° 2	17°28	7°17	7°54	F 15
S 16	23 40 55	23°20'41	4 <b>Ω</b> 7	15°24	11°55	15°45	3°48	3°27	22°34	3°45	7°10	19° 3	17°25	7°24	7°57	S 16
S 17	23 44 52	24°19'25	17°42	16°47	13° 9	16°25	3°55	3°24	22°37	3°46	7°10	19°R 4	17°22	7°31	8° 0	S 17
M18	23 48 48	25°18'11	1 Mp 5	18° 8	14°23	17° 5	4° 2	3°21	22°39	3°47	7°10	19° 3	17°19	7°38	8° 2	M18
T 19	23 52 45	26°16'59	14°15	19°29	15°38	17°45	4° 8	3°18	22°41	3°48	7° 9	19° 1	17°15	7°44	8° 5	T 19
W20	23 56 41	27°15'49	27°13	20°48	16°52	18°25	4°14	3°14	22°44	3°49	7° 9	18°56	17°12	7°51	8° 8	W20
T 21	0 038	28°14'41	9 <b>≏</b> 58	22° 5	18° 6	19° 6	4°20	3°11	22°46	3°50	7° 9	18°50	17° 9	7°58	8°10	T 21
F 22	0 4 34	29°13'35	22°30	23°22	19°20	19°46	4°26	3° 7	22°49	3°51	7° 8	18°43	17° 6	8° 4	8°12	F 22
S 23	0 8 31	0 <b>≏</b> 12'31	4 <b>M</b> .48	24°36	20°34	20°26	4°32	3° 4	22°51	3°53	7° 8	18°36	17° 3	8°11	8°15	S 23
S 24	0 12 27	1°11'29	16°56	25°49	21°49	21° 6	4°38	3° 0	22°54	3°54	7° 8	18°28	17° 0	8°18	8°17	S 24
M25	0 16 24	2°10'28	28°54	27° 1	23° 3	21°47	4°43	2°56	22°57	3°55	7° 7	18°22	16°56	8°24	8°19	M25
T 26	0 20 21	3° 9'30	10 <b>∡</b> 147	28°11	24°17	22°27	4°48	2°53	22°59	3°56	7° 7	18°17	16°53	8°31	8°21	T 26
W27	0 24 17	4° 8'33	22°38	29°19	25°31	23° 8	4°53	2°49	23° 2	3°58	7° 7	18°15	16°50	8°38	8°23	W27
T 28	0 28 14	5° 7'39	4 <b>云</b> 32	0 <b>M</b> 24	26°45	23°48	4°58	2°45	23° 5	3°59	7° 6	18°D14	16°47	8°45	8°25	T 28
F 29	0 32 10	6° 6'46	16°34	1°28	27°59	24°29	5° 3	2°41	23° 8	4° 0	7° 6	18°14	16°44	8°51	8°27	F 29
S 30	0 36 7	7 <b>♀</b> 5'54	28 <b>궁</b> 49	2M29	29 <b>≏</b> 13	25 <b>♀</b> 10	5 <b>95</b> 8	2 <b>8</b> 37	23 <b>M</b> _10	4 <b>₹</b> 2	7 <b>I</b> 5	$18\Omega16$	16 <b>Ω</b> 41	8 <b>₹</b> 58	89528	S 30

Day	0	D		ţ	φ		ď	7		4	ŧ	ì	)	ł(	<del> </del>	(	Р		R	U	Ç	ď	5
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat		decl	decl	decl	decl	lat
F 1	8n19	19 s47 3r	n25 3n39	0n42	3n49	1n17	1 s53	0n30	23n 8	0 s20	10n24	2 s 3 9	18s 6	0n13	19 s20	1n36	10n33 11	s 8	15n 4	15n24	16 s 28	17n11	6s 7
S 2	7 57	19 22 2	30 2 53	0 36	3 18	1 15	2 9	0 29	23 8	0 20	10 23	2 39	18 7	0 13	19 20	1 36	10 33 11	. 8	15 4	15 25	16 29	17 10	6 8
S 3	7 35		26 2 8		2 47	1 14	2 25	0 29			-	2 40	-		19 21		10 33 11				16 31		6 8
M 4	7 12	-	16 1 23		2 17	1 13	2 41	0 28		0 20	-	2 40	-			1 35		-	15 3		16 32		6 9
T 5	6 50 6 28	12 31 0s 8 37 2	s56 0 38 7 0s 7	0 15	1 46	1 12 1 10	2 57 3 13			-		2 40 2 40	-		19 21 19 21	1 35		-		15 28	16 34 16 35		6 10 6 10
T 7	6 5			0 / 0s 0	0 44	1 10	3 29	0 27		0 20		2 40	-		19 21			-		-	16 36		6 11
F 8	5 43	0n34 4	6 1 35		0 13	1 7	3 45	0 26			10 18	-	18 10		19 21		10 32 11	-			16 38		6 11
S 9	5 20	5 19 4	46 2 19	0 15	0s18	1 6	4 1	0 25	23 8	0 19	10 17	2 41	18 10	0 13	19 22	1 35	10 32 11	10	15 7	15 32	16 39	17 5	6 12
S 10	4 57	9 49 5	8 3 2	0 23	0 49	1 4	4 17	0 25	23 7	0 19	10 15	2 41	18 11	0 13	19 22	1 35	10 32 11	10	15 8	15 33	16 40	17 4	6 12
M11	4 34	13 44 5	12 3 44	0 31	1 20	1 2	4 33	0 24	23 7	0 19	10 14	2 41	18 11	0 13	19 22	1 35	10 31 11	10	15 9	15 34	16 42	17 3	6 13
T 12			56 4 26		1 51	1 1	4 49	0 23		,		2 41			19 22	1 35		-			16 43		6 13
W13			21 5 8		2 22	0 59	5 5	0 23		,	-		18 12		19 23	1 35					16 45		6 14
T 14					2 52	0 57	5 21	0 22			-		18 13		19 23	1 35					16 46		6 15
F 15 S 16	3 2 2 39		30 6 29		3 23 3 54	0 55 0 53	5 37 5 53	0 22 0 21		0 19 0 19			18 14 18 14		19 23 19 23	1 35	10 31 11 10 30 11				16 47 16 49		6 16
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S 17 M18	2 16 1 52		7 7 48 n 5 8 26		4 25	0 51 0 49	6 9 6 25	0 20 0 20		0 19 0 19			18 15 18 15		19 23 19 24		10 30 11 10 30 11				16 50 16 51		6 16 6 17
T 19	1 29	,	13 8 20		5 26	0 49	6 41	0 20		0 19		_	18 16			1 35				-	16 51		6 18
W20	1 5				5 57	0 45	6 57	0 19		1		_	18 17							-			6 18
T 21	0 42	0s16 4	1 10 17	1 48	6 27	0 43	7 13	0 18	23 6	0 19	10 2	2 43	18 17	0 13	19 25	1 35	10 29 11	12	15 12	15 43	16 56	16 56	6 19
F 22	0 19	4 29 4	37 10 52	1 55	6 57	0 41	7 29	0 17	23 6	0 19	10 1	2 43	18 18	0 13	19 25	1 34	10 29 11	12	15 15	15 44	16 57	16 55	6 20
S 23	0s 5	8 26 5	0 11 27	2 2	7 27	0 38	7 44	0 17	23 6	0 19	10 0	2 43	18 19	0 13	19 25	1 34	10 29 11	13	15 17	15 45	16 58	16 54	6 20
S 24	0 28	11 59 5	9 12 0	2 10	7 57	0 36	8 0	0 16	23 6	0 19	9 58	2 44	18 19	0 13	19 25	1 34	10 29 11	13	15 19	15 46	17 0	16 53	6 21
M25	0 52	15 1 5	3 12 33	2 16	8 27	0 34	8 16			0 19	9 57	2 44	18 20	0 13	19 26	1 34	10 28 11	13	15 21	15 47	17 1	16 53	6 21
T 26	-		45 13 4		8 57	0 31	8 31	0 15		-	9 55	2 44	-	0 13		1 34		_				16 52	6 22
W27	1 39		15 13 35		9 26	0 29	8 47			0 18	9 54	2 44		0 13		1 34						16 51	6 23
T 28	2 2		34 14 4		9 55	0 26	9 3	0 14		0 18	9 53	2 44	-			1 34		_				16 50	6 23
F 29 S 30	2 26		43 14 32		10 24 10 s53	0 24	9 18	0 13	23 5 23n 5	0 18 0s18	9 51		18 23 18 s24			1 34						16 50	6 24
3 30	2 S49	16845 11	n43 14 s 59	2 S48	10853	0n21	9 s34	Un12	23H 3	0818	9n50	2 S44	18 S24	Un13	19 s27	11134	10n27 11	814	13H23	13032	1/8 8	100149	6 s25

 $\label{eq:Julian Day Number = 2322127.5, Delta\ T = 46.34\ sec} \\ Ecliptic\ obliquity = 23°29'01, Nutation = -0°00'11, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 19°47'41, Lahiri = 18°54'41Greg.\ Calendar$ 

OCTOBER 1645 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ţ(	<del>,</del>	Р	R	Ω	Ç	ķ	Day
S 1	0 40 3	8₾ 5'05	11≈21	3M28	0ML28	25 <b>£</b> 50	5912	2°R33	23 <b>M</b> .13	4 <b>x</b> <sup>7</sup> 3	7°R 5	18 <b>Ω</b> 17	16 <b>Ω</b> 37	9 <b>.7</b> 5	8930	S 1
M 2	0 44 0	9° 4'17	24°16	4°24	1°42	26°31	5°16	2 <b>8</b> 28	23°16	4° 5	7 <b>I</b> 4	18°R17	16°34	9°11	8°32	M 2
T 3	0 47 56	10° 3'31	7 <b>)</b> €36	5°17	2°56	27°12	5°20	2°24	23°19	4° 6	7° 4	18°15	16°31	9°18	8°33	T 3
W 4	0 51 53	11° 2'48	21°22	6° 6	4°10	27°53	5°24	2°20	23°22	4° 8	7° 3	18°11	16°28	9°25	8°34	W 4
T 5	0 55 50	12° 2'05	5 <b>Ƴ</b> 31	6°52	5°24	28°34	5°28	2°16	23°25	4° 9	7° 3	18° 5	16°25	9°32	8°36	T 5
F 6	0 59 46	13° 1'25	20° 1	7°34	6°38	29°15	5°32	2°11	23°28	4°11	7° 2	17°57	16°21	9°38	8°37	F 6
S 7	1 3 43	14° 0'48	4 <b>8</b> 43	8°11	7°52	29°56	5°35	2° 7	23°31	4°12	7° 1	17°48	16°18	9°45	8°38	S 7
S 8	1 7 39	15° 0'12	19°31	8°44	9° 6	0 <b>M</b> .37	5°38	2° 2	23°34	4°14	7° 1	17°39	16°15	9°52	8°39	S 8
M 9	1 11 36	15°59'39	4 <b>Ⅱ</b> 16	9°11	10°20	1°18	5°41	1°58	23°37	4°16	7° 0	17°32	16°12	9°58	8°40	M 9
T 10	1 15 32	16°59'08	18°52	9°33	11°34	1°59	5°44	1°53	23°40	4°17	6°59	17°26	16° 9	10° 5	8°41	T 10
W11	1 19 29	17°58'39	39513	9°49	12°48	2°40	5°46	1°49	23°43	4°19	6°59	17°23	16° 6	10°12	8°41	W11
T 12	1 23 25	18°58'13	17°16	9°57	14° 2	3°22	5°49	1°44	23°47	4°21	6°58	17°D22	16° 2	10°19	8°42	T 12
F 13	1 27 22	19°57'49	1 <b>0</b> 2	9°R59	15°16	4° 3	5°51	1°39	23°50	4°22	6°57	17°23	15°59	10°25	8°43	F 13
S 14	1 31 19	20°57'27	14°32	9°52	16°30	4°44	5°53	1°35	23°53	4°24	6°57	17°R23	15°56	10°32	8°43	S 14
S 15	1 35 15	21°57'08	27°46	9°38	17°44	5°26	5°55	1°30	23°56	4°26	6°56	17°23	15°53	10°39	8°44	S 15
M16	1 39 12	22°56'50	10 <b>m</b> )47	9°14	18°58	6° 7	5°57	1°25	24° 0	4°28	6°55	17°20	15°50	10°45	8°44	M16
T 17	1 43 8	23°56'35	23°37	8°42	20°12	6°49	5°58	1°21	24° 3	4°29	6°54	17°15	15°46	10°52	8°44	T 17
W18	1 47 5	24°56'22	6 <b>₽</b> 15	8° 1	21°26	7°31	5°59	1°16	24° 6	4°31	6°53	17° 7	15°43	10°59	8°44	W18
T 19	1 51 1	25°56'11	18°44	7°11	22°40	8°12	6° 0	1°11	24°10	4°33	6°53	16°57	15°40	11° 6	8°R44	T 19
F 20	1 54 58	26°56'03	1 <b>m</b> 3	6°13	23°54	8°54	6° 1	1° 6	24°13	4°35	6°52	16°44	15°37	11°12	8°44	F 20
S 21	1 58 54	27°55'56	13°13	5° 8	25° 8	9°36	6° 2	1° 1	24°16	4°37	6°51	16°31	15°34	11°19	8°44	S 21
S 22	2 2 51	28°55'51	25°15	3°57	26°22	10°18	6° 2	0°56	24°20	4°39	6°50	16°17	15°31	11°26	8°44	S 22
M23	2 6 48	29°55'48	7 <b>.</b> ₹10	2°42	27°36	11° 0	6° 2	0°52	24°23	4°41	6°49	16° 6	15°27	11°32	8°43	M23
T 24	2 10 44	0 <b>M</b> 55'47	19° 0	1°25	28°50	11°42	6°R 2	0°47	24°27	4°43	6°48	15°56	15°24	11°39	8°43	T 24
W25	2 14 41	1°55'47	0 <b>궁</b> 49	0° 9	0 <b>才</b> 4	12°24	6° 2	0°42	24°30	4°45	6°47	15°49	15°21	11°46	8°42	W25
T 26	2 18 37	2°55'49	12°40	28 <b>≏</b> 55	1°18	13° 6	6° 2	0°37	24°34	4°47	6°46	15°45	15°18	11°53	8°42	T 26
F 27	2 22 34	3°55'53	24°39	27°45	2°32	13°48	6° 1	0°32	24°37	4°49	6°46	15°44	15°15	11°59	8°41	F 27
S 28	2 26 30	4°55'59	6≈50	26°44	3°46	14°30	6° 1	0°28	24°41	4°51	6°45	15°D43	15°12	12° 6	8°40	S 28
S 29	2 30 27	5°56'06	19°18	25°51	5° 0	15°12	6° 0	0°23	24°44	4°53	6°44	15°R43	15° 8	12°13	8°39	S 29
M30	2 34 23	6°56'14	2 <b>)</b> 9	25° 8	6°14	15°55	5°59	0°18	24°48	4°55	6°43	15°42	15° 5	12°19	8°39	M30
T 31	2 38 20	7 <b>M</b> .56'24	15 <b>∺</b> 27	24 <b>₾</b> 36	7 <b>,₹</b> 27	16 <b>M</b> .37	5 <b>9</b> 57	0 <b>8</b> 13	24M52	4 <b>₹</b> 57	6 <b>Ⅱ</b> 42	15 <b>Ω</b> 40	15 <b>Ω</b> 2	12 <b>×</b> 26	8937	T 31

Day	0	D	ğ	·	♂	4	ħ	)Å(	卉	Р	ß	ນ Ç	ķ
	decl	decl lat	decl lat	decl lat de	cl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
S 1 M 2	3 s13 3 36			i3 11 s22 0n19 9 s i8 11 50 0 16 10		23n 5 0s1 23 5 0 1		18 s24 0n13 18 25 0 13		10n27 11s14 10 27 11 14			
T 3 W 4	3 59 4 23			3 12 18 0 14 10 7 12 45 0 11 10	-			18 26 0 13 18 27 0 13		10 26 11 14 10 26 11 14			
T 5 F 6	4 46 5 9	3n40 4 30		4 13 40 0 6 11	5 0 9	23 4 0 1 23 4 0 1	9 40 2 45	18 28 0 13	19 29 1 34	10 26 11 15 10 26 11 15	15 29 1:	5 58 17 16	16 45 6 28
S 7 S 8	5 32 5 55		17 21 3 10 17 33 3 13	6 14 7 0 3 11 8 14 33 0 0 11		23 4 0 1 23 4 0 1				10 25 11 15 10 25 11 15			
M 9 T 10		18 41 4 20		8 15 25 0 5 12	5 0 6	23 4 0 1	9 34 2 45	18 31 0 13	19 30 1 34	10 25 11 15 10 25 11 15	15 38 10	6 2 17 21	16 42 6 31
W11 T 12		19 50 2 33	17 55 3 1:	7 15 50 0 8 12 5 16 15 0 10 12	35 0 5	23 4 0 1	9 31 2 45	18 33 0 13	19 31 1 34 19 31 1 34	10 24 11 16	15 39 10	6 3 17 23	16 41 6 32 16 40 6 32
F 13 S 14				2 16 39 0 13 12 7 17 4 0 16 13	49 0 5 4 0 4					10 24 11 16 10 24 11 16			
S 15 M16	8 34 8 56	9 24 2 1	17 19 2 5		33 0 3	23 4 0 1	9 24 2 46	18 36 0 13	19 33 1 33	10 23 11 16 10 23 11 16	15 40 1	6 7 17 29	16 38 6 35
T 17 W18 T 19	9 18 9 40 10 2	1 1 3 49	17 0 2 43 16 36 2 33 16 7 2 19	2 18 36 0 27 14	1 0 2		9 21 2 46	18 38 0 13		10 23 11 16 10 23 11 17 10 22 11 17	15 44 10	6 9 17 31	16 36 6 36
F 20 S 21	10 24 10 45	7 20 4 50	15 34 2	4 19 19 0 33 14 17 19 40 0 35 14	29 0 0	23 4 0 1	9 17 2 46	18 39 0 13	19 34 1 33	10 22 11 17 10 22 11 17 10 22 11 17	15 51 10	6 11 17 34	16 35 6 38
S 22 M23	11 7 11 28			29 20 0 0 38 14 0 20 20 0 41 15		23 4 0 1				10 22 11 17 10 21 11 17		6 13 17 36 6 14 17 38	
T 24 W25	11 49	18 49 4 13	12 46 0 50	0 20 39 0 44 15	24 0 2	23 4 0 1 23 4 0 1	9 11 2 46	18 43 0 13	19 36 1 33 19 36 1 33	10 21 11 17	16 5 10	6 15 17 39 6 16 17 40	16 32 6 40
T 26 F 27	-	19 27 1 49	10 31 0n1	8 21 16 0 49 15 2 21 33 0 52 16	4 0 4		9 6 2 45	18 45 0 12	19 36 1 33 19 37 1 33	10 20 11 18	16 9 10	6 17 17 41 6 18 17 43	16 31 6 42
S 28 S 29	13 31	17 51 0 47 15 22 0s19	9 14 0 50	61     21     50     0     54     16       60     22     6     0     57     16	31 0 5		9 3 2 45	18 47 0 12	19 38 1 33	10 20 11 18 10 20 11 18	16 9 10		16 29 6 43
	13 51 14s11	12 4 1 26 8s 3 2s30		7 22 22 1 0 16 22 22s37 1s 2 16s		23 5 0 1 23n 5 0 s1			19 38 1 33 19s38 1n33	10 20 11 18 10n19 11s18			l I I

Julian Day Number = 2322157.5, Delta T = 46.29 sec Ecliptic obliquity =  $23^{\circ}29'01$ , Nutation =  $-0^{\circ}00'12$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $19^{\circ}47'45$ , Lahiri =  $18^{\circ}54'45$ Greg. Calendar

NOVEMBER 1645 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ş	♂ <sup>™</sup>	4	ħ	)∤(	<del>¥</del>	Р	S.	v	Ç	Ŗ	Day
W 1	2 42 16	8ML56'36	29 <b>米</b> 15	24°R16	8 <b>√</b> 41	17 <b>M</b> 19	5°R56	0°R 8	24M55	4 <b>₹</b> 59	6°R41	15°R34	14 <b>Ω</b> 59	12 <b>×</b> 33	8°R36	W 1
T 2	2 46 13	9°56'49	13 <b>Y</b> 32	24°D 8	9°55	18° 2	5954	0 <b>8</b> 4	24°59	5° 1	6 <b>Ⅱ</b> 40	15 <b>Ω</b> 26	14°56	12°39	8935	T 2
F 3	2 50 10	10°57'04	28°15	24 <b>₽</b> 11	11° 9	18°44	5°52	29 <b>Y</b> 59	25° 2	5° 3	6°39	15°16	14°52	12°46	8°34	F 3
S 4	2 54 6	11°57'20	13 <b>8</b> 17	24°25	12°23	19°27	5°50	29°54	25° 6	5° 5	6°38	15° 4	14°49	12°53	8°32	S 4
S 5	2 58 3	12°57'39	28°28	24°49	13°36	20° 9	5°47	29°50	25°10	5° 7	6°37	14°53	14°46	13° 0	8°31	S 5
M 6	3 1 59	13°57'59	13 <b>II</b> 37	25°22	14°50	20°52	5°45	29°45	25°13	5° 9	6°36	14°43	14°43	13° 6	8°29	M 6
T 7	3 5 56	14°58'21	28°35	26° 3	16° 4	21°35	5°42	29°41	25°17	5°11	6°35	14°35	14°40	13°13	8°28	T 7
W 8	3 9 52	15°58'45	139513	26°52	17°18	22°18	5°39	29°36	25°21	5°14	6°34	14°30	14°37	13°20	8°26	W 8
T 9	3 13 49	16°59'11	27°28	27°48	18°31	23° 0	5°36	29°32	25°24	5°16	6°32	14°28	14°33	13°26	8°24	T 9
F 10	3 17 46	17°59'39	11 <b>\O</b> 18	28°49	19°45	23°43	5°33	29°27	25°28	5°18	6°31	14°27	14°30	13°33	8°22	F 10
S 11	3 21 42	19° 0'09	24°45	29°55	20°59	24°26	5°29	29°23	25°32	5°20	6°30	14°27	14°27	13°40	8°20	S 11
S 12	3 25 39	20° 0'40	7 <b>m</b> 51	1 <b>M</b> 6	22°12	25° 9	5°25	29°18	25°35	5°22	6°29	14°26	14°24	13°47	8°18	S 12
M13	3 29 35	21° 1'14	20°40	2°20	23°26	25°52	5°22	29°14	25°39	5°24	6°28	14°23	14°21	13°53	8°16	M13
T 14	3 33 32	22° 1'49	3 <b>≏</b> 15	3°38	24°39	26°35	5°18	29°10	25°43	5°27	6°27	14°18	14°18	14° 0	8°14	T 14
W15	3 37 28	23° 2'26	15°38	4°58	25°53	27°19	5°13	29° 6	25°46	5°29	6°26	14° 9	14°14	14° 7	8°12	W15
T 16	3 41 25	24° 3'04	27°53	6°20	27° 7	28° 2	5° 9	29° 1	25°50	5°31	6°25	13°58	14°11	14°13	8° 9	T 16
F 17	3 45 21	25° 3'44	9 <b>M</b> .59	7°45	28°20	28°45	5° 4	28°57	25°54	5°33	6°24	13°44	14° 8	14°20	8° 7	F 17
S 18	3 49 18	26° 4'26	22° 0	9°11	29°34	29°28	4°59	28°53	25°58	5°36	6°23	13°29	14° 5	14°27	8° 4	S 18
S 19	3 53 14	27° 5'09	3 <b>₹</b> 56	10°38	0 <b>궁</b> 47	0 <b>∡</b> 12	4°54	28°49	26° 1	5°38	6°21	13°15	14° 2	14°33	8° 2	S 19
M20	3 57 11	28° 5'53	15°48	12° 6	2° 1	0°55	4°49	28°45	26° 5	5°40	6°20	13° 2	13°58	14°40	7°59	M20
T 21	4 1 8	29° 6'39	27°37	13°36	3°14	1°39	4°44	28°42	26° 9	5°42	6°19	12°51	13°55	14°47	7°56	T 21
W22	4 5 4	0 <b>≯</b> 7'26	9 <b>ප</b> 26	15° 6	4°28	2°22	4°39	28°38	26°12	5°45	6°18	12°44	13°52	14°54	7°53	W22
T 23	4 9 1	1° 8'14	21°18	16°36	5°41	3° 6	4°33	28°34	26°16	5°47	6°17	12°39	13°49	15° 0	7°50	T 23
F 24	4 12 57	2° 9'03	3≈16	18° 8	6°54	3°50	4°27	28°31	26°20	5°49	6°16	12°37	13°46	15° 7	7°48	F 24
S 25	4 16 54	3° 9'53	15°25	19°39	8° 8	4°33	4°21	28°27	26°24	5°51	6°15	12°D36	13°43	15°14	7°45	S 25
S 26	4 20 50	4°10'44	27°50	21°11	9°21	5°17	4°15	28°24	26°27	5°54	6°14	12°R37	13°39	15°20	7°41	S 26
M27	4 24 47	5°11'36	10 <b>∺</b> 35	22°44	10°34	6° 1	4° 9	28°20	26°31	5°56	6°12	12°37	13°36	15°27	7°38	M27
T 28	4 28 43	6°12'28	23°45	24°16	11°47	6°45	4° 3	28°17	26°35	5°58	6°11	12°35	13°33	15°34	7°35	T 28
W29	4 32 40	7°13'22	7 <b>Υ</b> 25	25°49	13° 1	7°29	3°56	28°14	26°38	6° 0	6°10	12°31	13°30	15°40	7°32	W29
T 30	4 36 37	8 <b>.7</b> 14'16	21 <b>Y</b> 34	27 <b>M</b> 22	14 <b>궁</b> 14	8 <b>∡</b> 12	39549	28 <b>Y</b> 11	26M42	6 <b>₹</b> 3	6 <b>I</b> I 9	$12\Omega 25$	$13\Omega 27$	15 <b>×7</b> 47	79529	T 30

Day	0	J		ζ	5	Q.		С	7	2	4	ŧ	1	)į	ξ(	<del> </del>	(	Р		n	v	Ç	ķ	
	decl	decl la	ıt	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl	decl	decl	decl	lat
W 1	14 s30	3 s29	3 s28	7s57	1n35	22 s52	1s 5	17s 9	0s 7	23n 5	0s16	8n58	2 s45	18 s50	0n12	19s39	1n33	10n19 1	1s18	16n12	16n22	17 s49	16n28	6 s45
T 2	14 49	1n26	4 15	7 44	1 46	23 5	1 7	17 21	0 8	23 5	0 16	8 56	2 45	18 51	0 12	19 39	1 33	10 19 1	1 18	16 14	16 23	17 50	16 27	6 46
F 3	15 8	6 24	4 47	7 36	1 56	23 19	1 10	17 34	0 8	23 5	0 16	8 55	2 45	18 52	0 12	19 39	1 33	10 19 1	1 18	16 17	16 24	17 51	16 27	6 47
S 4	15 27	11 5	5 0	7 34	2 4	23 31	1 12	17 46	0 9	23 6	0 16	8 53	2 45	18 53	0 12	19 40	1 33	10 18 1	1 18	16 21	16 25	17 53	16 26	6 47
S 5	15 45	15 6	4 52	7 37	2 10	23 43	1 15	17 58	0 9	23 6	0 16	8 52	2 45	18 53	0 12	19 40	1 33	10 18 1	1 18	16 24	16 26	17 54	16 26	6 48
M 6	16 4	18 7	4 23	7 45	2 14	23 54	1 17	18 10	0 10	23 6	0 16	8 50	2 45	18 54	0 12	19 41	1 33	10 18 1	1 18	16 27	16 27	17 55	16 25	6 48
T 7	16 21	19 52	3 37	7 57	2 17	24 4	1 20	18 22	0 11	23 6	0 15	8 49	2 45	18 55	0 12	19 41	1 33	10 18 1	1 18	16 29	16 28	17 56	16 25	6 49
W 8	16 39	20 13	2 37	8 13	2 19	24 14	1 22	18 33	0 11	23 6	0 15	8 47	2 45	18 56	0 12	19 41	1 33	10 18 1	1 18	16 31	16 29	17 58	16 24	6 50
T 9	16 56	19 16	1 29	8 32	2 20	24 23	1 24	18 45	0 12	23 7	0 15	8 46	2 44	18 57	0 12	19 42	1 33	10 17 1	1 18	16 31	16 30	17 59	16 24	6 50
F 10	17 13	17 9	0 17	8 54	2 19	24 31	1 26	18 56	0 12	23 7	0 15	8 44	2 44	18 58	0 12	19 42	1 33	10 17 1	1 18	16 32	16 31	18 0	16 23	6 51
S 11	17 30	14 9	0n54	9 19	2 18	24 39	1 29	19 8	0 13	23 7	0 15	8 43	2 44	18 59	0 12	19 43	1 33	10 17 1	1 19	16 32	16 32	18 1	16 23	6 51
S 12	17 47	10 30	2 0	9 46	2 15	24 46	1 31	19 19	0 14	23 7	0 15	8 41	2 44	19 0	0 12	19 43	1 33	10 17 1	1 19	16 32	16 33	18 2	16 22	6 52
M13	18 3	6 26	2 59	10 14			1 33	19 29	0 14	23 8	0 15	8 40	2 44	19 1	0 12	19 44		10 17 1	-			-	16 22	6 52
T 14	18 19		-	10 44		24 57	1 35		0 15		0 15	8 39	2 44	-	-	19 44		10 16 1					16 21	6 53
W15	18 34	2s 6	4 24	11 15		25 2	1 37	19 51	0 15		0 15	8 37	2 44	19 2	0 12	19 44	1 33						16 21	6 54
T 16	18 49		-	11 47	1 59			20 1	0 16		0 15	8 36	2 43	-	0 12	-,	1 33		-				16 21	6 54
F 17	19 4			12 19	1 54		1 41		0 17		0 14	8 35	2 43	-	0 12			10 16 1					16 20	6 55
S 18	19 18	13 31	4 57	12 52	1 49	25 11	1 42	20 21	0 17	23 9	0 14	8 33	2 43	19 5	0 12	19 46	1 33	10 16 1	1 19	16 48	16 38	18 10	16 20	6 55
S 19	19 33	16 22	4 41	13 25	1 43	25 13	1 44		0 18		0 14	8 32	2 43	19 6	0 12	19 46	1 32	10 15 1	1 19	16 52	16 39	18 11	16 19	6 56
M20	19 46		-	13 58	1 37		1 46			23 10	0 14	8 31	2 43		-	19 46	-	10 15 1	-			-		6 56
T 21				14 31	1 30		1 48			23 10	0 14	8 30	2 43		-	19 47								6 57
W22	20 13		2 46	-	1 24		1 49			23 10	0 14	8 29	2 42		-	19 47						18 14		6 57
_	20 26		-	15 36		25 12	1 51			23 11	0 14	8 28	2 42	-	-	19 48		10 15 1				18 16		6 58
F 24	20 38		0 49			25 10	1 52			23 11	0 14	8 26		19 10	-	19 48	1 32		-			18 17		6 58
S 25	20 50	16 29	0s15	16 40	1 3	25 7	1 53	21 26	0 21	23 11	0 14	8 25	2 42	19 11	0 12	19 48	1 32	10 14 1	1 19	17 3	16 44	18 18	16 17	6 59
S 26			-	17 11	0 56			21 35		23 11	0 13	8 24		19 12	-	19 49		10 14 1	-					6 59
M27	21 12			17 42		24 59		21 43		23 12	0 13	8 23		19 13	-	19 49		10 14 1				18 20		7 0
_	21 23	5 33	3 21	18 12	0 42	24 54	1 57	-		23 12	0 13	8 22		19 14	-	19 50	-	10 14 1	-		16 47	18 21	16 17	7 0
	21 33		-	18 41		24 48		21 59		23 12	0 13	8 22		19 15	-	19 50						18 23		7 0
T 30	21 s43	4n 2	4 s44	19s 9	0n28	24 s42	1 s59	22 s 7	0 s24	23n13	0s13	8n21	2 s41	19 s15	0n12	19s50	1n32	10n14 1	1s18	17n 6	16n49	18 s24	16n16	7 s 1

 $\label{eq:Julian Day Number = 2322188.5, Delta T = 46.23 sec} \\ Ecliptic obliquity = 23°29'01, Nutation = -0°00'14, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°47'49, Lahiri = 18°54'49Greg. Calendar \\ \\$ 

DECEMBER 1645 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	δ	4	ħ	ď	卉	Р	R	Ω	Ç	Š	Day
F 1	4 40 33	9 <b>∡</b> 15'11	6 <b>8</b> 13	28M54	15 <b>云</b> 27	8 <b>∡</b> 756	3°R43	28°R 8	26M46	6 <b>₹</b> 5	6°R 8	12°R17	13 <b>Ω</b> 24	15 <b>₹</b> 54	7°R25	F 1
S 2	4 44 30	10°16'07	21°16	0 <b>∡</b> 128	16°40	9°40	3936	28 <b>Y</b> 5	26°49	6° 7	6 <b>II</b> 7	12 <b>0</b> 7	13°20	16° 1	79522	S 2
S 3	4 48 26	11°17'04	6П33	2° 1	17°53	10°25	3°29	28° 2	26°53	6° 9	6° 5	11°58	13°17	16° 7	7°18	S 3
M 4	4 52 23	12°18'01	21°54	3°34	19° 6	11° 9	3°22	27°59	26°56	6°12	6° 4	11°49	13°14	16°14	7°15	M 4
T 5	4 56 19	13°19'00	7 <b>9</b> 5 7	5° 7	20°19	11°53	3°15	27°56	27° 0	6°14	6° 3	11°43	13°11	16°21	7°11	T 5
W 6	5 0 16	14°20'00	22° 3	6°41	21°32	12°37	3° 7	27°54	27° 4	6°16	6° 2	11°38	13° 8	16°27	7° 7	W 6
T 7	5 4 13	15°21'01	6 <b>Ω</b> 34	8°14	22°45	13°21	3° 0	27°51	27° 7	6°18	6° 1	11°D37	13° 4	16°34	7° 4	T 7
F 8	5 8 9	16°22'02	20°38	9°47	23°57	14° 6	2°52	27°49	27°11	6°21	6° 0	11°37	13° 1	16°41	7° 0	F 8
S 9	5 12 6	17°23'05	4 <b>m</b> 13	11°21	25°10	14°50	2°45	27°47	27°14	6°23	5°59	11°38	12°58	16°47	6°56	S 9
S 10	5 16 2	18°24'09	17°23	12°55	26°23	15°35	2°37	27°44	27°18	6°25	5°58	11°R39	12°55	16°54	6°53	S 10
M11	5 19 59	19°25'13	0 <b>ჲ</b> 12	14°29	27°36	16°19	2°30	27°42	27°21	6°27	5°56	11°38	12°52	17° 1	6°49	M11
T 12	5 23 55	20°26'19	12°41	16° 3	28°48	17° 4	2°22	27°40	27°25	6°30	5°55	11°35	12°49	17° 8	6°45	T 12
W13	5 27 52	21°27'25	24°57	17°37	0≈ 1	17°48	2°14	27°39	27°28	6°32	5°54	11°30	12°45	17°14	6°41	W13
T 14	5 31 48	22°28'33	7 <b>M</b> 3	19°11	1°13	18°33	2° 6	27°37	27°32	6°34	5°53	11°23	12°42	17°21	6°37	T 14
F 15	5 35 45	23°29'41	19° 1	20°45	2°26	19°18	1°58	27°35	27°35	6°36	5°52	11°14	12°39	17°28	6°33	F 15
S 16	5 39 42	24°30'49	0 <b>≯</b> 55	22°20	3°38	20° 2	1°50	27°34	27°39	6°38	5°51	11° 5	12°36	17°34	6°29	S 16
S 17	5 43 38	25°31'59	12°47	23°55	4°50	20°47	1°42	27°32	27°42	6°41	5°50	10°55	12°33	17°41	6°25	S 17
M18	5 47 35	26°33'08	2 <u>4</u> °37	25°30	6° 3	21°32	1°34	27°31	27°45	6°43	5°49	10°47	12°30	17°48	6°21	M18
T 19	5 51 31	27°34'19	6 <b>ප</b> 28	27° 5	7°15	22°17	1°26	27°30	27°49	6°45	5°48	10°40	12°26	17°54	6°17	T 19
W20	5 55 28	28°35'29	18°22	28°40	8°27	23° 2	1°18	27°28	27°52	6°47	5°47	10°35	12°23	18° 1	6°13	W20
T 21	5 59 24	29°36'40	0≈20	0 <b>궁</b> 16	9°39	23°47	1° 9	27°27	27°55	6°49	5°46	10°32	12°20	18° 8	6° 9	T 21
F 22	6 3 21	0중37'51	12°25	1°52	10°51	24°32	1° 1	27°27	27°59	6°51	5°45	10°D32	12°17	18°15	6° 5	F 22
S 23	6 7 17	1°39'02	24°39	3°28	12° 3	25°17	0°53	27°26	28° 2	6°53	5°44	10°33	12°14	18°21	6° 0	S 23
S 24	6 11 14	2°40'12	7 <b>)</b> € 7	5° 5	13°15	26° 2	0°45	27°25	28° 5	6°55	5°43	10°34	12°10	18°28	5°56	S 24
M25	6 15 11	3°41'23	19°52	6°41	14°26	26°47	0°37	27°24	28° 8	6°58	5°42	10°36	12° 7	18°35	5°52	M25
T 26	6 19 7	4°42'34	2 <b>Υ</b> 58	8°19	15°38	27°32	0°29	27°24	28°12	7° 0	5°41	10°R37	12° 4	18°41	5°48	T 26
W27	6 23 4	5°43'44	16°28	9°56	16°49	28°17	0°21	27°24	28°15	7° 2	5°40	10°36	12° 1	18°48	5°44	W27
T 28	6 27 0	6°44'54	0824	11°34	18° 1	29° 3	0°13	27°23	28°18	7° 4	5°39	10°34	11°58	18°55	5°40	T 28
F 29	6 30 57	7°46'04	14°46	13°12	19°12	29°48	0° 5	27°23	28°21	7° 6	5°38	10°30	11°55	19° 1	5°35	F 29
S 30	6 34 53	8°47'13	29°32	14°50	20°24	0 <b>ප</b> 33	29∏57	27°D23	28°24	7° 8	5°37	10°26	11°51	19° 8	5°31	S 30
S 31	6 38 50	9 <b>ප්</b> 48'23	14Ⅲ35	16 <b>ට</b> 29	21≈35	1 <b>궁</b> 19	29∏49	27 <b>Y</b> 23	28 <b>M</b> 27	7 <b>.</b> ₹10	5 <b>Ⅱ</b> 36	10 <b>Ω</b> 21	11 <b>Ω</b> 48	19 <b>×</b> 15	5 <b>9</b> 27	S 31

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Julian Day Number = 2322218.5, Delta T = 46.17 sec Ecliptic obliquity = 23°29'00, Nutation = -0°00'14, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°47'53, Lahiri = 18°54'54Greg. Calendar