

Astrodienst Ephemeris Tables for the year 1650

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 1650 GC 00:00 UT

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S 1	6 42 54	10 ට 51'32	20 × 31	19 ,7 49	11 ×7 47	3≈25	5 M 27	25°R43	15 ∡ 16	15 ∡ 37	9°R33	26°R 3	24823	1 П 59	1°R53	S 1
S 2	6 46 50	11°52'44	5 云 28	21° 8	13° 2	4°13	5°36	25∏38	15°19	15°39	9∏32	25 8 59	24°20	2° 5	1 m) 51	S 2
M 3	6 50 47	12°53'55	20°19	22°28	14°16	5° 0	5°44	25°34	15°23	15°41	9°31	25°52	24°17	2°12	1°49	M 3
T 4	6 54 43	13°55'07	4≈55	23°50	15°31	5°47	5°52	25°29	15°26	15°43	9°30	25°44	24°14	2°19	1°47	T 4
W 5	6 58 40	14°56'17	19°10	25°12	16°45	6°35	6° 1	25°24	15°29	15°45	9°30	25°36	24°10	2°25	1°44	W 5
T 6	7 2 3 7	15°57'28	2) (57	26°36	18° 0	7°22	6° 9	25°20	15°33	15°47	9°29	25°28	24° 7	2°32	1°42	T 6
F 7	7 6 33	16°58'38	16°17	28° 0	19°14	8° 9	6°17	25°16	15°36	15°49	9°28	25°22	24° 4	2°39	1°40	F 7
S 8	7 10 30	17°59'47	29°11	29°25	20°29	8°57	6°24	25°11	15°39	15°51	9°27	25°18	24° 1	2°45	1°37	S 8
S 9	7 14 26	19° 0'55	11 Y 41	0 ප 51	21°44	9°44	6°32	25° 7	15°42	15°53	9°26	25°16	23°58	2°52	1°35	S 9
M10	7 18 23	20° 2'02	23°52	2°18	22°58	10°31	6°39	25° 3	15°46	15°55	9°25	25°D16	23°54	2°59	1°32	M10
T 11	7 22 19	21° 3'09	5 8 49	3°45	24°13	11°19	6°47	24°58	15°49	15°57	9°24	25°17	23°51	3° 5	1°29	T 11
W12	7 26 16	22° 4'15	17°38	5°14	25°28	12° 6	6°54	24°54	15°52	15°59	9°24	25°18	23°48	3°12	1°26	W12
T 13	7 30 12	23° 5'21	29°25	6°42	26°42	12°54	7° 1	24°50	15°55	16° 1	9°23	25°R18	23°45	3°19	1°23	T 13
F 14	7 34 9	24° 6'25	11 I I13	8°12	27°57	13°41	7° 8	24°46	15°58	16° 3	9°22	25°16	23°42	3°25	1°20	F 14
S 15	7 38 6	25° 7'29	23° 7	9°42	29°11	14°29	7°15	24°42	16° 1	16° 5	9°21	25°12	23°39	3°32	1°17	S 15
S 16	7 42 2	26° 8'32	59910	11°12	0 궁 26	15°16	7°21	24°38	16° 4	16° 7	9°20	25° 6	23°35	3°39	1°14	S 16
M17	7 45 59	27° 9'34	17°24	12°44	1°41	16° 3	7°28	24°34	16° 7	16° 9	9°20	24°57	23°32	3°45	1°11	M17
T 18	7 49 55	28°10'35	29°51	14°16	2°55	16°51	7°34	24°31	16°10	16°10	9°19	24°45	23°29	3°52	1° 7	T 18
W19	7 53 52	29°11'36	12 Ω 30	15°48	4°10	17°38	7°41	24°27	16°13	16°12	9°18	24°33	23°26	3°58	1° 4	W19
T 20	7 57 48	0≈12'36	25°23	17°21	5°25	18°26	7°47	24°24	16°16	16°14	9°18	24°21	23°23	4° 5	1° 0	T 20
F 21	8 1 45	1°13'35	8 m ,27	18°55	6°40	19°13	7°53	24°20	16°19	16°16	9°17	24°10	23°20	4°12	0°57	F 21
S 22	8 5 41	2°14'33	21°43	20°29	7°54	20° 0	7°58	24°17	16°22	16°17	9°16	24° 2	23°16	4°18	0°53	S 22
S 23	8 9 38	3°15'30	5 ₾ 9	22° 4	9° 9	20°48	8° 4	24°13	16°24	16°19	9°16	23°56	23°13	4°25	0°49	S 23
M24	8 13 35	4°16'27	18°46	23°40	10°24	21°35	8° 9	24°10	16°27	16°21	9°15	23°53	23°10	4°32	0°45	M24
T 25	8 17 31	5°17'23	2 M 35	25°16	11°38	22°23	8°15	24° 7	16°30	16°22	9°14	23°D52	23° 7	4°38	0°41	T 25
W26	8 21 28	6°18'18	16°35	26°53	12°53	23°10	8°20	24° 4	16°33	16°24	9°14	23°R52	23° 4	4°45	0°37	W26
T 27	8 25 24	7°19'13	0 . 746	28°31	14° 8	23°58	8°25	24° 1	16°35	16°26	9°13	23°52	23° 0	4°52	0°33	T 27
F 28	8 29 21	8°20'07	15° 8	0≈ 9	15°23	24°45	8°30	23°58	16°38	16°27	9°13	23°50	22°57	4°58	0°29	F 28
S 29	8 33 17	9°21'00	29°37	1°49	16°38	25°32	8°34	23°56	16°41	16°29	9°12	23°46	22°54	5° 5	0°25	S 29
S 30	8 37 14	10°21'52	14 전 10	3°28	17°52	26°20	8°39	23°53	16°43	16°30	9°12	23°39	22°51	5°12	0°21	S 30
M31	8 41 11	11≈22'44	28 궁 39	5≈ 9	19 궁 7	27≈ 7	8ML43	23 II 50	16 ∡ 746	16 ₹ 32	9 Ⅱ 11	23 8 30	22848	5 Ⅱ 18	0 m)16	M31

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S 1	23 s 2	25 s17 2 s	8 22 s14	0n52	21 s 4 11	12 20 s32	1s 9	12 s15	1n11	22n19	1 s 6	22 s42	0s 1	21 s19	1n24	11n43	10s20	19n18	18n54	21n16	4n45	6 s 3 0
S 2			17 22 28		21 16 1	9 20 21		12 18		22 19				21 19		11 43					4 45	6 31
M 3	22 52		11 22 41		21 27 1	7 20 10			1 11					21 19						21 20	4 45	6 31
T 4 W 5	22 45 22 39		48 22 53 6 23 5		21 38 1 21 48 1	4 19 58 2 19 46	_	_		22 19 22 19	1 6			21 20 21 20	1 24 1 24	-		-		-	4 46 4 46	6 32
T 6	22 39		5 23 16			59 19 34	_	12 28		22 19		22 43		21 20							4 46	6 32
F 7	22 24		47 23 25			57 19 21		12 31		22 19		22 44		21 20		11 43				21 29	4 47	6 33
S 8	22 16	4 14 4	16 23 34	0s 5	22 14 0	54 19 9	1 8	12 33	1 12	22 19	1 5	22 44	0 1	21 20	1 24	11 43	10 18	19 8	18 49	21 31	4 47	6 33
S 9	22 8	1n22 3	33 23 41	0 12	22 22 0	52 18 56	1 7	12 36	1 12	22 19	1 5	22 45	0 1	21 21	1 24	11 43	10 18	19 7	18 48	21 33	4 48	6 34
M10	21 59		41 23 47		-	49 18 43			1 12	-	1 5	-		21 21	1 24					21 36	4 49	6 34
	21 50	-	43 23 53			46 18 30				22 19	1 5	-		21 21						21 38	4 49	6 34
	-		41 23 57			44 18 16		12 42		22 19	1 5			21 21		11 43				21 40	4 50	6 35
			22 23 59 24 24 1		-	41 18 3 38 17 49		12 44 12 47		22 19 22 19	1 5 1 4	-		21 21 21 21		11 43 11 43				21 42 21 44	4 51 4 51	6 35
			23 24 1			36 17 35		12 49		22 19		22 47		21 22		11 43				21 46	4 52	6 36
			16 24 0			33 17 21		12 51		22 19				21 22		11 43				21 48	4 53	6 36
M17		26 20 4	1 23 58			30 17 6		12 53		22 19	1 4			21 22		11 44				21 50		6 36
T 18	20 34	24 42 4	35 23 54	1 11	23 0 0	27 16 52	1 6	12 54	1 13	22 19	1 4	22 48		21 22	1 24	11 44	10 17	19 0	18 41	21 53	4 55	6 37
1	20 22	21 49 4 :	56 23 49	1 17	23 1 0	25 16 37		12 56		22 19	1 4	22 48	0 2	21 22	1 24	11 44	10 16	18 57	18 40	21 55	4 56	6 37
T 20			3 23 43			22 16 22		12 58		22 19		22 48		21 22		11 44					4 57	6 37
F 21			53 23 35			19 16 7		13 0		22 19		22 48		21 23						21 59	4 58	6 37
S 22	19 42		28 23 26		22 59 0	16 15 52	1 5	13 2	1 14	22 19	1 3	22 49	0 2	21 23	1 24	11 44	10 16	18 49	18 38	22 1	4 59	6 38
S 23	19 28		48 23 16			14 15 36		13 3		22 19		22 49		21 23		11 44					5 0	6 38
M24	19 14		55 23 4		-	11 15 21		13 5		22 19	1 3			21 23		11 44					5 1	6 38
T 25 W26	18 59		51 22 50		22 50 0 22 46 0	8 15 5				22 19	1 3			21 23	1 25						5 2 5 3	6 38
T 27			39 22 35 37 22 19			6 14 49 3 14 33		13 8 13 9		22 19 22 19	1 2			21 23 21 23	1 25 1 25						5 5	6 38
F 28			50 22 1		22 36 0	0 14 17		13 11		22 19		22 50		21 23	1 25					22 13	5 6	6 39
S 29			57 21 42			3 14 1		13 12		22 19		22 51		21 24						22 16		6 39
S 30	17 41	26 36 3	53 21 21	1 59	22 23 0	5 13 45	1 2	13 13	1 16	22 19	1 2	22 51	0 2	21 24	1 25	11 45	10 14	18 43	18 31	22 18	5 9	6 39
M31	17 s24	24 s 56 4 s 5	33 20 s 58	2 s 1	22 s15 0	8 13 s28	1 s 2	13 s14	1n16	22n19	1 s 1	22 s51	0s 2	21 s24	1n25	11n45	10s14	18n41	18n30	22n20	5n10	6 s 3 9

 $\label{eq:Julian Day Number = 2323710.5, Delta T = 43.31 sec} \\ Ecliptic obliquity = 23°29'10, Nutation = -0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°51'18, Lahiri = 18°58'19Greg. Calendar \\ \\$

FEBRUARY 1650 GC 00:00 UT

Day	Sid.t	0)	ğ	φ	ď	4	ħ)∤(卉	Р	S.	v	Ç	ķ	Day
T 1	8 45 7	12≈23'34	12≈59	6≈51	20ට22	27≈55	8 M .47	23°R48	16 ∡ 748	16 ₹ 33	9°R11	23°R18	22845	5 Ⅱ 25	0°R12	T 1
W 2	8 49 4	13°24'22	27° 3	8°33	21°37	28°42	8°51	23耳46	16°50	16°35	9 Ⅱ 10	238 5	22°41	5°32	0 Mp 8	W 2
T 3	8 53 0	14°25'09	10) (46	10°16	22°51	29°29	8°55	23°43	16°53	16°36	9°10	22°53	22°38	5°38	0° 3	T 3
F 4	8 56 57	15°25'55	24° 5	11°59	24° 6	0 ∺ 17	8°58	23°41	16°55	16°38	9°10	22°43	22°35	5°45	29 N 59	F 4
S 5	9 0 53	16°26'39	7 Υ 0	13°44	25°21	1° 4	9° 2	23°39	16°57	16°39	9° 9	22°35	22°32	5°51	29°54	S 5
S 6	9 4 50	17°27'22	19°33	15°29	26°36	1°51	9° 5	23°37	17° 0	16°40	9° 9	22°30	22°29	5°58	29°50	S 6
M 7	9 8 46	18°28'03	1846	17°16	27°50	2°39	9° 8	23°35	17° 2	16°42	9° 9	22°27	22°26	6° 5	29°45	M 7
T 8	9 12 43	19°28'42	13°45	19° 3	29° 5	3°26	9°11	23°34	17° 4	16°43	9° 8	22°26	22°22	6°11	29°40	T 8
W 9	9 16 39	20°29'20	25°36	20°50	0≈20	4°13	9°14	23°32	17° 6	16°44	9° 8	22°26	22°19	6°18	29°36	W 9
T 10	9 20 36	21°29'56	7 Ⅱ 23	22°39	1°35	5° 1	9°16	23°31	17° 8	16°45	9° 8	22°26	22°16	6°25	29°31	T 10
F 11	9 24 33	22°30'30	19°13	24°28	2°49	5°48	9°18	23°29	17°10	16°47	9° 8	22°24	22°13	6°31	29°26	F 11
S 12	9 28 29	23°31'03	19510	26°18	4° 4	6°35	9°21	23°28	17°12	16°48	9° 7	22°19	22°10	6°38	29°22	S 12
S 13	9 32 26	24°31'33	13°19	28° 9	5°19	7°22	9°23	23°27	17°14	16°49	9° 7	22°12	22° 6	6°45	29°17	S 13
M14	9 36 22	25°32'02	25°42	0) 1	6°33	8° 9	9°24	23°26	17°16	16°50	9° 7	22° 2	22° 3	6°51	29°12	M14
T 15	9 40 19	26°32'30	8 Ω 23	1°52	7°48	8°57	9°26	23°25	17°18	16°51	9° 7	21°50	22° 0	6°58	29° 8	T 15
W16	9 44 15	27°32'55	21°20	3°45	9° 3	9°44	9°27	23°24	17°20	16°52	9° 7	21°37	21°57	7° 5	29° 3	W16
T 17	9 48 12	28°33'19	4 m 35	5°37	10°18	10°31	9°29	23°23	17°22	16°53	9° 7	21°23	21°54	7°11	28°58	T 17
F 18	9 52 9	29°33'41	18° 3	7°30	11°32	11°18	9°30	23°23	17°23	16°54	9° 6	21°11	21°51	7°18	28°53	F 18
S 19	9 56 5	0) 34′01	1 ≏ 43	9°23	12°47	12° 5	9°31	23°22	17°25	16°55	9° 6	21° 2	21°47	7°25	28°48	S 19
S 20	10 0 2	1°34'20	15°32	11°16	14° 2	12°52	9°31	23°22	17°26	16°56	9° 6	20°55	21°44	7°31	28°44	S 20
M21	10 3 58	2°34'37	29°27	13° 8	15°16	13°39	9°32	23°21	17°28	16°57	9°D 6	20°51	21°41	7°38	28°39	M21
T 22	10 7 55	3°34'53	13 M 27	15° 0	16°31	14°26	9°32	23°21	17°30	16°58	9° 6	20°49	21°38	7°45	28°34	T 22
W23	10 11 51	4°35'08	27°30	16°50	17°46	15°13	9°R32	23°D21	17°31	16°59	9° 6	20°49	21°35	7°51	28°29	W23
T 24	10 15 48	5°35'21	11 ~ 35	18°39	19° 1	16° 0	9°32	23°21	17°32	16°59	9° 6	20°49	21°32	7°58	28°25	T 24
F 25	10 19 44	6°35'33	2 <u>5</u> °42	20°26	20°15	16°47	9°32	23°22	17°34	17° 0	9° 6	20°48	21°28	8° 4	28°20	F 25
S 26	10 23 41	7°35'43	9 궁 50	22°11	21°30	17°34	9°31	23°22	17°35	17° 1	9° 7	20°45	21°25	8°11	28°15	S 26
S 27	10 27 38	8°35'51	23°56	23°54	22°45	18°21	9°31	23°22	17°36	17° 1	9° 7	20°38	21°22	8°18	28°11	S 27
M28	10 31 34	9 米 35'58	7≈58	25) 33	23≈59	19 米 8	9 M _30	23 II 23	17 ∡ ³38	17 ×7 2	9 I 7	20829	21819	8 Ⅲ 24	28 N 6	M28

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T 1	17s 7	21 s40	4s56	20 s34	2s 3	22 s 7	0s10	13 s11	1 s 2	13 s15	1n16	22n19	1 s 1	22 s52	0 s 2	2 21 s24	1n25	11n46	10s13	18n38	18n30	22n22	5n11	6 s 3 9
W 2	16 50	17 13	5 0	20 9	2 4	21 58	0 13	12 55	1 1	13 16	1 16	22 19	1 1	22 52	0 2	2 21 24	1 25	11 46	10 13	18 35	18 29	22 24	5 13	6 39
T 3	16 32	11 57	4 46	19 42	2 4	21 48	0 16	12 38	1 1	13 17	1 16	22 19	1 1	22 52	0 2	2 21 24	1 25	11 46	10 13	18 32	18 28	22 26	5 14	6 39
F 4	16 14	6 17	4 17	19 14	2 5	21 38	0 18	12 21	1 1	13 18	1 17	22 20	1 1	22 52	0 2	2 21 24	1 25	11 46	10 13	18 29	18 27	22 28	5 16	6 39
S 5	15 56	0 31	3 36	18 44	2 5	21 27	0 21	12 3	1 0	13 19	1 17	22 20	1 0	22 52	0 2	2 21 24	1 25	11 46	10 12	18 27	18 26	22 30	5 17	6 39
S 6	15 38	5n 7	2 45	18 12	2 4	21 15	0 23	11 46	1 0	13 20	1 17	22 20	1 0	22 53	0 2	2 21 25	1 25	11 47	10 12	18 26	18 26	22 32	5 19	6 39
M 7	15 19	10 26	1 47	17 39	2 3	21 3	0 26	11 29	1 0	13 21	1 17	22 20	1 0	22 53	0 2	2 21 25	1 25	11 47	10 12	18 25	18 25	22 34	5 20	6 39
T 8	15 0	15 16	0 46	17 4	2 2	20 50	0 28	11 11	0 59	13 22	1 17	22 20	1 0	22 53	0 2	2 21 25	1 25	11 47	10 12	18 25	18 24	22 36	5 22	6 39
W 9	14 41	19 28	0n17	16 28	2 0	20 37	0 31	10 54	0 59	13 22	1 17	22 20	1 0	22 53	0 2	2 21 25	1 25	11 47	10 11	18 25	18 23	22 38	5 24	6 39
T 10	14 22	22 52	1 18	15 50	1 57	20 23	0 33	10 36	0 59	13 23	1 18	22 20	1 0	22 54	0 2	2 21 25	1 25	11 47	10 11	18 25	18 22	22 40	5 25	6 39
F 11	14 2	25 19	2 17	15 11	1 54	20 8	0 35	10 18	0 58	13 24	1 18	22 20	0 59	22 54	0 2	2 21 25	1 25	11 48	10 11	18 24	18 22	22 42	5 27	6 39
S 12	13 42	26 38	3 10	14 31	1 51	19 53	0 38	10 0	0 58	13 24	1 18	22 20	0 59	22 54	0 2	2 21 25	1 25	11 48	10 11	18 23	18 21	22 44	5 29	6 39
S 13	13 22	26 43	3 55	13 48	1 47	19 37	0 40	9 43	0 57	13 25	1 18	22 21	0 59	22 54	0 2	2 21 25	1 25	11 48	10 10	18 21	18 20	22 46	5 30	6 39
M14	13 2	25 27	4 30	13 5	1 42	19 21	0 42	9 25	0 57	13 25	1 18	22 21	0 59	22 54	0 2	2 21 25	1 25	11 48	10 10	18 19	18 19	22 48	5 32	6 39
T 15	12 42	22 54	4 52	12 20	1 37	19 4	0 44	9 6	0 57	13 25	1 19	22 21	0 59	22 55	0 2	2 21 25	1 25	11 49	10 10	18 16	18 18	22 50	5 34	6 39
W16	12 21	19 9	5 0	11 34	1 31	18 47	0 46	8 48	0 56	13 25	1 19	22 21	0 58	22 55	0 2	2 21 25	1 25	11 49	10 10	18 12	18 17	22 52	5 36	6 39
T 17	12 0	14 23	4 52	10 47	1 25	18 29	0 49	8 30	0 56	13 26	1 19	22 21	0 58	22 55	0 2	2 21 25	1 25	11 49	10 9	18 9	18 17	22 54	5 37	6 39
F 18	11 39	8 51	4 28	9 58	1 17	18 10	0 51	8 12	0 55	13 26	1 19	22 21	0 58	22 55	0 2	2 21 25	1 25	11 49	10 9	18 6	18 16	22 56	5 39	6 38
S 19	11 18	2 49	3 49	9 9	1 10	17 51	0 53	7 53	0 55	13 26	1 19	22 22	0 58	22 55	0 2	2 21 26	1 25	11 49	10 9	18 3	18 15	22 58	5 41	6 38
S 20	10 56	3 s26	2 55	8 18	1 1	17 31	0 55	7 35	0 55	13 26	1 20	22 22	0 58	22 55	0 2	2 21 26	1 25	11 50	10 9	18 1	18 14	22 59	5 43	6 38
M21	10 35	9 35	1 51	7 27	0 52	17 11	0 56	7 16	0 54	13 26	1 20	22 22	0 57	22 56	0 2	2 21 26	1 25	11 50	10 8	18 0	18 13	23 1	5 45	6 38
T 22	10 13	15 17	0 39	6 35	0 43	16 51	0 58	6 58	0 54	13 26	1 20	22 22	0 57	22 56	0 2	2 21 26	1 26	11 50	10 8	18 0	18 12	23 3	5 46	6 38
W23	9 51	20 13	0s35	5 42	0 32	16 30	1 0	6 39	0 53	13 26	1 20	22 22	0 57	22 56	0 2	2 21 26	1 26	11 51	10 8	18 0	18 12	23 5	5 48	6 37
T 24	9 29	24 0	1 48	4 50	0 22	16 8	1 2	6 21	0 53	13 25	1 20	22 23	0 57	22 56	0 2	2 21 26	1 26	11 51	10 8	18 0	18 11	23 7	5 50	6 37
F 25	9 7	26 19	2 54	3 57	0 10	15 46	1 4	6 2	0 52	13 25	1 21	22 23	0 57	22 56	0 2	2 21 26	1 26	11 51	10 7	17 59	18 10	23 9	5 52	6 37
S 26	8 44	26 56	3 49	3 5	0n 2	15 24	1 5	5 43	0 52	13 25	1 21	22 23	0 56	22 56	0 2	21 26	1 26	11 51	10 7	17 58	18 9	23 11	5 54	6 37
S 27	8 22	25 48	4 30	2 13	0 14	15 1	1 7	5 24	0 51	13 24	1 21	22 23	0 56	22 56	0 2	2 21 26	1 26	11 52	10 7	17 57	18 8	23 13	5 56	6 36
M28	7 s 5 9	23 s 3	4 s 5 5	1 s22	0n27	14s38	1 s 8	5 s 6	0s51	13 s24	1n21	22n23	0s56	22 s57	0s 2	21 s26	1n26	11n52	10s 6	17n54	18n 7	23n15	5n58	6 s 3 6

Julian Day Number = 2323741.5, Delta T = 43.25 sec

Ecliptic obliquity = 23°29'11, Nutation = -0°00'12, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°51'23, Lahiri = 18°58'23Greg. Calendar

MARCH 1650 GC 00:00 UT

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Day		0	D	ğ	φ	ď	4	ħ)∤(¥	Р	ß	Ω	Ç	Š	Day
T 1	10 35 31	10) € 36'03	21≈51	27 ∺ 8	25≈14	19 米 54	9°R29	23 Ⅱ 23	17 × 739	17 ∡ 3	9 I 7	20°R18	21816	8 Ⅲ 31	28°R 1	T 1
W 2	10 39 27	11°36'06	5) €32	28°39	26°29	20°41	9 M 28	23°24	17°40	17° 3	9° 7	208 6	21°12	8°38	27 Ω 57	W 2
T 3	10 43 24	12°36'08	18°57	0 Υ 5	27°43	21°28	9°26	23°25	17°41	17° 4	9° 7	19°55	21° 9	8°44	27°52	T 3
F 4	10 47 20	13°36'07	2 Υ 3	1°25	28°58	22°15	9°25	23°26	17°42	17° 4	9° 8	19°45	21° 6	8°51	27°48	F 4
S 5	10 51 17	14°36'04	14°51	2°40	0 ¥ 12	23° 1	9°23	23°27	17°43	17° 5	9° 8	19°37	21° 3	8°58	27°43	S 5
S 6	10 55 13	15°36'00	27°19	3°48	1°27	23°48	9°21	23°28	17°44	17° 5	9° 8	19°32	21° 0	9° 4	27°39	S 6
M 7	10 59 10	16°35'53	9 8 32	4°49	2°42	24°35	9°19	23°30	17°45	17° 6	9° 8	19°30	20°57	9°11	27°34	M 7
T 8	11 3 6	17°35'44	21°31	5°43	3°56	25°21	9°16	23°31	17°45	17° 6	9° 9	19°D30	20°53	9°18	27°30	T 8
W 9	11 7 3	18°35'33	3 Ⅱ 23	6°30	5°11	26° 8	9°14	23°33	17°46	17° 7	9° 9	19°30	20°50	9°24	27°26	W 9
T 10	11 11 0	19°35'19	15°11	7° 8	6°25	26°54	9°11	23°34	17°47	17° 7	9° 9	19°R31	20°47	9°31	27°22	T 10
F 11	11 14 56	20°35'04	27° 1	7°38	7°40	27°41	9° 8	23°36	17°47	17° 7	9°10	19°31	20°44	9°38	27°17	F 11
S 12	11 18 53	21°34'46	995 0	8° 0	8°55	28°27	9° 5	23°38	17°48	17° 7	9°10	19°29	20°41	9°44	27°13	S 12
S 13	11 22 49	22°34'26	21°10	8°13	10° 9	29°14	9° 2	23°40	17°49	17° 8	9°11	19°25	20°37	9°51	27° 9	S 13
M14	11 26 46	23°34'03	3 Ω 38	8°R18	11°24	0 Υ 0	8°59	23°42	17°49	17° 8	9°11	19°19	20°34	9°58	27° 5	M14
T 15	11 30 42	24°33'38	16°26	8°15	12°38	0°46	8°55	23°44	17°50	17° 8	9°11	19°11	20°31	10° 4	27° 1	T 15
W16	11 34 39	25°33'11	29°35	8° 4	13°53	1°33	8°51	23°46	17°50	17° 8	9°12	19° 2	20°28	10°11	26°57	W16
T 17	11 38 35	26°32'42	13 m) 5	7°46	15° 7	2°19	8°48	23°49	17°50	17° 8	9°12	18°52	20°25	10°18	26°54	T 17
F 18	11 42 32	27°32'11	26°55	7°20	16°22	3° 5	8°43	23°51	17°50	17° 8	9°13	18°44	20°22	10°24	26°50	F 18
S 19	11 46 29	28°31'37	11 亞 0	6°48	17°36	3°51	8°39	23°54	17°51	17°R 8	9°13	18°37	20°18	10°31	26°46	S 19
S 20	11 50 25	29°31'02	25°16	6°11	18°51	4°38	8°35	23°56	17°51	17° 8	9°14	18°33	20°15	10°37	26°43	S 20
M21	11 54 22	0 Υ 30'25	9 M .37	5°29	20° 5	5°24	8°30	23°59	17°51	17° 8	9°15	18°31	20°12	10°44	26°39	M21
T 22	11 58 18	1°29'46	24° 0	4°43	21°19	6°10	8°26	24° 2	17°51	17° 8	9°15	18°D30	20° 9	10°51	26°36	T 22
W23	12 2 15	2°29'05	8 ∡ 19	3°54	22°34	6°56	8°21	24° 5	17°R51	17° 8	9°16	18°31	20° 6	10°57	26°32	W23
T 24	12 6 11	3°28'22	22°33	3° 4	23°48	7°42	8°16	24° 8	17°51	17° 8	9°17	18°32	20° 3	11° 4	26°29	T 24
F 25	12 10 8	4°27'38	6 궁 40	2°13	25° 3	8°28	8°11	24°11	17°51	17° 8	9°17	18°R33	19°59	11°11	26°26	F 25
S 26	12 14 4	5°26'52	20°38	1°22	26°17	9°14	8° 5	24°15	17°51	17° 8	9°18	18°32	19°56	11°17	26°23	S 26
S 27	12 18 1	6°26'04	4≈27	0°33	27°32	9°59	8° 0	24°18	17°51	17° 7	9°19	18°29	19°53	11°24	26°20	S 27
M28	12 21 58	7°25'15	18° 6	29) (46	28°46	10°45	7°54	24°22	17°50	17° 7	9°19	18°24	19°50	11°31	26°17	M28
T 29	12 25 54	8°24'23	1) 33	29° 2	0 Υ 0	11°31	7°49	24°25	17°50	17° 7	9°20	18°18	19°47	11°37	26°14	T 29
W30	12 29 51	9°23'30	14°48	28°22	1°15	12°17	7°43	24°29	17°50	17° 6	9°21	18°11	19°43	11°44	26°12	W30
T 31	12 33 47	10 Y 22'34	27) (49	27) 46	2 Υ 29	13 ° 2	7 M 37	24∏33	17 ∡ 149	17 ₹ 6	9∏22	18 8 5	19 8 40	11 II 51	26 N 9	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	decl de	cl decl	decl lat
T 1	7 s36	19s 0 5s	2 0 s 3 2 0 n	40 14s14 1s10	4 s47 0 s50	13 s24 1n21	22n24 0s56	22 s57 0s 2	21 s26 1n26	11n52 10s 6	17n51 18n	7 23n17	5n59 6s36
W 2	7 14	14 1 4 5	0n17 0	54 13 50 1 11	4 28 0 50	13 23 1 22	22 24 0 56	22 57 0 2	21 26 1 26	11 52 10 6	17 48 18	6 23 19	6 1 6 35
T 3	6 51	8 26 4 2	5 1 4 1	7 13 26 1 13	4 9 0 50	13 22 1 22	22 24 0 55	22 57 0 2	21 26 1 26	11 53 10 6	17 45 18	5 23 21	6 3 6 35
F 4	6 28	2 37 3 4	1 1 48 1 1	21 13 1 1 14	3 50 0 49	13 22 1 22		22 57 0 2	21 26 1 26	11 53 10 5	17 43 18	4 23 22	6 5 6 34
S 5	6 4	3n12 2 5	1 2 31 1	35 12 36 1 15	3 31 0 49	13 21 1 22	22 25 0 55	22 57 0 2	21 26 1 26	11 53 10 5	17 40 18	3 23 24	6 7 6 34
S 6	5 41	8 45 1 5	5 3 10 1	48 12 10 1 17	3 12 0 48	13 20 1 22	22 25 0 55	22 57 0 2	21 26 1 26	11 54 10 5	17 39 18	2 23 26	6 9 6 34
M 7	5 18	13 51 0 5	3 47 2	2 11 44 1 18	2 53 0 48	13 19 1 22	22 25 0 55	22 57 0 2	21 26 1 26	11 54 10 5	17 38 18	2 23 28	6 11 6 33
T 8	4 55	18 21 0n1	1 4 20 2	15 11 18 1 19	2 34 0 47	13 18 1 23	22 25 0 54	22 57 0 2	21 26 1 26	11 54 10 4	17 38 18	1 23 30	6 13 6 33
W 9	4 31	22 5 1 1	4 50 2	27 10 52 1 20	2 15 0 47	13 17 1 23	22 26 0 54	22 57 0 2	21 26 1 26	11 54 10 4	17 38 18	0 23 32	6 15 6 32
T 10	4 8	24 52 2 1	3 5 16 2	39 10 25 1 21	1 56 0 46			22 58 0 2	21 26 1 26	11 55 10 4	17 39 17	59 23 34	6 16 6 32
F 11	3 44	26 34 3	7 5 38 2	49 9 58 1 22	1 37 0 46				21 26 1 26		17 39 17	58 23 35	6 18 6 31
S 12	3 21	27 4 3 5	3 5 55 2	59 9 31 1 22	1 18 0 45	13 14 1 23	22 26 0 54	22 58 0 2	21 26 1 26	11 55 10 3	17 38 17	57 23 37	6 20 6 31
S 13	2 57	26 15 4 3	0 6 9 3	8 9 4 1 23	0 59 0 44	13 13 1 23	22 27 0 53	22 58 0 2	21 26 1 26	11 56 10 3	17 37 17	57 23 39	6 22 6 30
M14	2 34	24 9 4 5	6 18 3	16 8 36 1 24	0 40 0 44	13 12 1 24	22 27 0 53	22 58 0 2	21 26 1 26	11 56 10 3	17 35 17	56 23 41	6 24 6 30
T 15	2 10	20 48 5	6 22 3	22 8 8 1 25	0 21 0 43	13 11 1 24	22 27 0 53	22 58 0 2	21 26 1 26	11 56 10 3	17 33 17	55 23 43	6 26 6 29
W16	1 46	16 20 5	1 6 22 3	26 7 40 1 25	0 2 0 43	13 9 1 24	22 28 0 53	22 58 0 2	21 26 1 26	11 57 10 2	17 31 17	54 23 44	6 28 6 29
T 17	1 23	10 57 4 3	9 6 17 3	29 7 11 1 26	0n17 0 42	13 8 1 24			21 26 1 26	11 57 10 2	17 28 17	53 23 46	6 29 6 28
F 18	0 59		1 6 9 3						21 26 1 27		17 26 17		6 31 6 27
S 19	0 35	1 s29 3	3 5 56 3	30 6 14 1 26	0 54 0 41	13 5 1 24	22 29 0 52	22 58 0 2	21 26 1 27	11 58 10 2	17 24 17	51 23 50	6 33 6 27
S 20	0 12	7 54 2	2 5 39 3	28 5 45 1 27	1 13 0 41	13 3 1 24	22 29 0 52	22 58 0 2	21 26 1 27	11 58 10 1	17 23 17	51 23 52	6 35 6 26
M21	0n12	13 58 0 4	3 5 18 3	24 5 16 1 27	1 32 0 40	13 2 1 25	22 29 0 52	22 58 0 2	21 26 1 27	11 58 10 1	17 22 17	50 23 53	6 36 6 26
T 22	0 36	19 17 0s3	4 55 3	18 4 47 1 27	1 51 0 40	13 0 1 25	22 29 0 52	22 58 0 2	21 26 1 27	11 59 10 1	17 22 17	49 23 55	6 38 6 25
W23	0 59	23 28 1 4	5 4 28 3	11 4 18 1 27	2 9 0 39	12 59 1 25	22 30 0 51	22 58 0 2	21 25 1 27	11 59 10 1	17 22 17	48 23 57	6 40 6 24
T 24	-	26 10 2 5		2 3 48 1 27			22 30 0 51					47 23 59	
F 25	1 47	27 10 3 5	3 30 2	51 3 18 1 27	2 47 0 38		22 30 0 51		21 25 1 27			46 24 0	6 43 6 23
S 26	2 10	26 24 4 3	1 2 59 2	39 2 49 1 27	3 5 0 37	12 53 1 25	22 31 0 51	22 58 0 2	21 25 1 27	12 0 10 0	17 22 17	46 24 2	6 45 6 22
S 27	2 34	24 3 5	2 27 2	26 2 19 1 27	3 24 0 37	12 51 1 25	22 31 0 51	22 58 0 2	21 25 1 27	12 0 10 0	17 22 17	45 24 4	6 47 6 22
M28	2 57	20 20 5 1	1 55 2	12 1 49 1 27	3 43 0 36	12 49 1 25	22 31 0 51	22 58 0 2	21 25 1 27	12 1 10 0	17 20 17	44 24 6	6 48 6 21
T 29	3 20	15 38 5	1 1 24 1 :	57 1 19 1 27	4 1 0 36	12 48 1 26	22 32 0 50	22 58 0 2	21 25 1 27	12 1 9 59	17 19 17	43 24 7	6 50 6 20
W30	3 44	10 15 4 3	7 0 54 1	41 0 49 1 26	4 19 0 35	12 46 1 26	22 32 0 50	22 58 0 2	21 25 1 27	12 1 9 59	17 17 17	42 24 9	6 51 6 19
T 31	4n 7	4s31 3s5	9 0n25 1n	25 0s19 1s26	4n38 0s34	12 s44 1n26	22n32 0s50	22 s58 0s 2	21 s25 1n27	12n 2 9s59	17n15 17n	41 24n11	6n53 6s19

Julian Day Number = 2323769.5, Delta T = 43.20 sec Ecliptic obliquity = $23^{\circ}29'11$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}51'26$, Lahiri = $18^{\circ}58'27$ Greg. Calendar

APRIL 1650 GC 00:00 UT

AI IX.	LL 103	uc													00.0	0 0.
Day	Sid.t	0	D	ğ	Ş	ď	4	ħ)∤(并	В	S.	Ω	Ç	ę,	Day
F 1	12 37 44	11 Y 21'37	10 Y 35	27°R14	3 Υ43	13 Y 48	7°R31	24 Ⅲ 37	17°R49	17°R 6	9П22	17°R59	19 8 37	11 II 57	26°R 6	F 1
S 2	12 41 40	12°20'38	23° 7	26) 48	4°58	14°34	7 m 24	24°41	17 ∡ 748	17 ₹ 5	9°23	17 8 55	19°34	12° 4	26 N 4	S 2
S 3	12 45 37	13°19'36	5 8 26	26°27	6°12	15°19	7°18	24°45	17°48	17° 5	9°24	17°52	19°31	12°11	26° 2	S 3
M 4	12 49 33	14°18'32	17°32	26°11	7°26	16° 5	7°12	24°49	17°47	17° 4	9°25	17°D51	19°28	12°17	25°59	M 4
T 5	12 53 30	15°17'27	29°29	26° 0	8°41	16°50	7° 5	24°53	17°46	17° 4	9°26	17°52	19°24	12°24	25°57	T 5
W 6	12 57 27	16°16'19	11 I I19	25°D55	9°55	17°35	6°58	24°57	17°46	17° 3	9°27	17°54	19°21	12°31	25°55	W 6
T 7	13 1 23	17°15'09	23° 8	25°56	11° 9	18°21	6°52	25° 2	17°45	17° 3	9°27	17°55	19°18	12°37	25°53	T 7
F 8	13 5 20	18°13'56	4958	26° 1	12°23	19° 6	6°45	25° 6	17°44	17° 2	9°28	17°57	19°15	12°44	25°52	F 8
S 9	13 9 16	19°12'42	16°56	26°12	13°38	19°51	6°38	25°11	17°43	17° 1	9°29	17°R58	19°12	12°51	25°50	S 9
S 10	13 13 13	20°11'25	29° 6	26°28	14°52	20°37	6°31	25°15	17°42	17° 1	9°30	17°57	19° 9	12°57	25°48	S 10
M11	13 17 9	21°10'06	11 Q 33	26°48	16° 6	21°22	6°24	25°20	17°41	17° 0	9°31	17°56	19° 5	13° 4	25°47	M11
T 12	13 21 6	22° 8'44	24°21	27°13	17°20	22° 7	6°17	25°25	17°40	16°59	9°32	17°53	19° 2	13°11	25°45	T 12
W13	13 25 2	23° 7'21	7 ⋒ 32	27°42	18°34	22°52	6° 9	25°30	17°39	16°58	9°33	17°50	18°59	13°17	25°44	W13
T 14	13 28 59	24° 5'55	21° 9	28°16	19°49	23°37	6° 2	25°35	17°38	16°58	9°34	17°46	18°56	13°24	25°43	T 14
F 15	13 32 55	25° 4'27	5 ₾ 9	28°53	21° 3	24°22	5°55	25°40	17°37	16°57	9°35	17°43	18°53	13°31	25°42	F 15
S 16	13 36 52	26° 2'57	19°31	29°34	22°17	25° 7	5°47	25°45	17°36	16°56	9°36	17°40	18°49	13°37	25°41	S 16
S 17	13 40 49	27° 1'25	4 M . 8	o Υ 19	23°31	25°52	5°40	25°50	17°35	16°55	9°37	17°39	18°46	13°44	25°40	S 17
M18	13 44 45	27°59'51	18°55	1° 8	24°45	26°36	5°32	25°56	17°34	16°54	9°38	17°D38	18°43	13°50	25°39	M18
T 19	13 48 42	28°58'16	3 ∡ 743	1°59	25°59	27°21	5°25	26° 1	17°32	16°53	9°39	17°39	18°40	13°57	25°39	T 19
W20	13 52 38	29°56'39	18°26	2°54	27°13	28° 6	5°17	26° 6	17°31	16°52	9°41	17°40	18°37	14° 4	25°38	W20
T 21	13 56 35	0 8 55'00	2 ප් 59	3°52	28°27	28°51	5°10	26°12	17°29	16°51	9°42	17°41	18°34	14°10	25°38	T 21
F 22	14 0 31	1°53'20	17°18	4°53	29°41	29°35	5° 2	26°17	17°28	16°50	9°43	17°42	18°30	14°17	25°37	F 22
S 23	14 4 28	2°51'38	1≈19	5°57	0 8 55	0820	4°54	26°23	17°27	16°49	9°44	17°R43	18°27	14°24	25°37	S 23
S 24	14 8 25	3°49'55	15° 3	7° 3	2° 9	1° 4	4°47	26°29	17°25	16°48	9°45	17°42	18°24	14°30	25°D37	S 24
M25	14 12 21	4°48'10	28°29	8°12	3°24	1°49	4°39	26°35	17°23	16°47	9°46	17°41	18°21	14°37	25°37	M25
T 26	14 16 18	5°46'23	11 米 39	9°23	4°38	2°33	4°31	26°40	17°22	16°46	9°47	17°40	18°18	14°44	25°37	T 26
W27	14 20 14	6°44'35	24°32	10°37	5°52	3°17	4°24	26°46	17°20	16°45	9°49	17°39	18°14	14°50	25°38	W27
T 28	14 24 11	7°42'46	7 Υ 12	11°54	7° 6	4° 2	4°16	26°52	17°19	16°44	9°50	17°37	18°11	14°57	25°38	T 28
F 29	14 28 7	8°40'55	19°39	13°12	8°20	4°46	4° 8	26°58	17°17	16°43	9°51	17°36	18° 8	15° 4	25°38	F 29
S 30	14 32 4	9839'02	1 8 55	14 Y 33	9 8 34	5 8 30	4 m , 1	27 II 5	17 × 15	16 ₹ 41	9∏52	17 8 35	18 8 5	15 Ⅱ 10	25 Ω 39	S 30

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	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	4n30	1n18 3s 9	0s 3 1n 9	0n11 1s25	4n56 0s34	12 s41 1n26	22n33 0s50		21 s25 1n27			7n40 24n13	6n54 6s18
S 2	4 53	6 59 2 11	0 28 0 53	0 41 1 25	5 14 0 33	12 39 1 26	22 33 0 50	22 58 0 2	21 25 1 27	12 2 9 58	17 12 17	7 40 24 14	6 56 6 17
S 3	5 16	12 18 1 7	0 51 0 37						21 25 1 27			7 39 24 16	
M 4	5 39	17 4 0 2							21 25 1 27			7 38 24 18	6 59 6 16
T 5	-	21 7 ln 3 24 15 2 5	1 30 0 0 1 46 0s	1	6 9 0 32				2 21 25 1 27 2 21 24 1 27			7 37 24 19 7 36 24 21	7 0 6 15 7 2 6 14
T 7	6 47	-	1 59 0 24						21 24 1 27			35 24 23	7 3 6 14
F 8	7 10	27 14 3 50	2 10 0 38	3 40 1 20					21 24 1 27			34 24 24	7 4 6 13
S 9	7 32	26 52 4 29	2 18 0 5	4 10 1 20	7 20 0 29	12 24 1 26	22 35 0 48	22 58 0 2	21 24 1 27	12 5 9 57	17 13 17	33 24 26	7 6 6 12
S 10	7 54	25 13 4 57	2 23 1 4	4 40 1 19	7 37 0 29	12 22 1 26	22 36 0 48	22 57 0 2	21 24 1 27	12 5 9 57	17 13 17	33 24 28	7 7 6 11
M11					7 55 0 28				21 24 1 27			7 32 24 29	7 8 6 10
T 12									21 24 1 27			7 31 24 31	7 9 6 10
W13 T 14	9 0 9 22	13 20 4 56 7 32 4 23							21 24 1 28 21 24 1 28			7 30 24 33 7 29 24 34	7 11 6 9 7 12 6 8
F 15	9 43	1 13 3 33	2 14 1 5						21 24 1 28			7 28 24 36	7 13 6 7
S 16	10 5	5 s 2 1 2 2 9	2 5 2 6		9 21 0 25				21 23 1 28			7 27 24 38	7 14 6 6
S 17	10 26	11 46 1 14	1 55 2 13	8 4 1 10	9 38 0 24	12 5 1 26	22 38 0 47	22 57 0 3	21 23 1 28	12 7 9 55	17 8 17	26 24 39	7 15 6 5
M18	10 47	17 35 0s 7	1 42 2 2	8 33 1 8	9 55 0 24	12 2 1 26	22 38 0 47	22 57 0 3	21 23 1 28	12 8 9 55	17 8 17	7 26 24 41	7 16 6 5
T 19	11 8	22 22 1 28	1 27 2 27		10 12 0 2.				21 23 1 28			7 25 24 42	7 17 6 4
W20	-		1 11 2 33				22 39 0 47		21 23 1 28			24 24 44	7 18 6 3
T 21 F 22	11 49 12 9	27 12 3 45 26 53 4 33			10 45 0 22 11 1 0 2				21 23 1 28 21 23 1 28			23 24 46 22 24 47	7 19 6 2 7 20 6 1
S 23	-	24 50 5 4			11 17 0 2				21 23 1 28			7 21 24 49	7 21 6 0
S 24	12 49	21 23 5 16	0n13 2 49	11 20 0 59	11 33 0 20	11 47 1 26	22 40 0 46		21 22 1 28	12 9 9 54	17 9 17	20 24 50	7 21 6 0
M25	13 9	16 52 5 11	0 38 2 52			11 45 1 26			21 22 1 28		-, , -,	19 24 52	7 22 5 59
T 26	13 28	11 40 4 49	1 4 2 53			11 42 1 26			21 22 1 28			7 19 24 53	7 23 5 58
W27	13 48	6 3 4 13	1 32 2 55			3 11 40 1 26			21 22 1 28			7 18 24 55	7 24 5 57
T 28	14 7	0 17 3 26							21 22 1 28			7 17 24 57	7 24 5 56
F 29	14 25	5n24 2 29							21 22 1 28			16 24 58	7 25 5 55
S 30	14n44	10n49 1s26	3n 4 2s54	1 13n57 0s48	13n 8 0s16	5 11 s32 1n26	22n42 0s45	22 s55 0s 3	21 s22 1n28	12n11 9s53	17n 7 17	⁷ n15 25n 0	7n26 5 s55

 $\label{eq:Julian Day Number = 2323800.5, Delta T = 43.14 sec} \\ Ecliptic obliquity = 23°29'12, Nutation = -0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°51'31, Lahiri = 18°58'31Greg. Calendar \\ \\$

MAY 1650 GC 00:00 UT

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Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(并	В	S.	v	Ç	Ŗ	Day
S 1	14 36 0	10 8 37'08	14 8 0	15 Y 56	10848	6 8 14	3°R53	27 I 11	17°R13	16°R40	9耳53	17°D35	18 8 2	15 I I17	25 Ω 40	S 1
M 2	14 39 57	11°35'12	25°58	17°21	12° 1	6°59	3 M .46	27°17	17 × 12	16 ₹ 39	9°55	17 8 35	17°59	15°24	25°41	M 2
T 3	14 43 53	12°33'14	7 Ⅱ 51	18°49	13°15	7°43	3°38	27°23	17°10	16°38	9°56	17°35	17°55	15°30	25°42	T 3
W 4	14 47 50	13°31'15	19°39	20°18	14°29	8°27	3°31	27°30	17° 8	16°36	9°57	17°36	17°52	15°37	25°43	W 4
T 5	14 51 47	14°29'13	19528	21°50	15°43	9°11	3°23	27°36	17° 6	16°35	9°58	17°36	17°49	15°44	25°44	T 5
F 6	14 55 43	15°27'11	13°19	23°23	16°57	9°54	3°16	27°42	17° 4	16°34	10° 0	17°37	17°46	15°50	25°45	F 6
S 7	14 59 40	16°25'06	25°17	24°59	18°11	10°38	3° 9	27°49	17° 2	16°33	10° 1	17°37	17°43	15°57	25°47	S 7
S 8	15 3 36	17°22'59	7 Ω 26	26°37	19°25	11°22	3° 1	27°55	17° 0	16°31	10° 2	17°R37	17°40	16° 4	25°48	S 8
M 9	15 7 33	18°20'51	19°51	28°17	20°39	12° 6	2°54	28° 2	16°58	16°30	10° 3	17°D37	17°36	16°10	25°50	M 9
T 10	15 11 29	19°18'41	2 m 35	29°59	21°53	12°49	2°47	28° 9	16°56	16°28	10° 5	17°37	17°33	16°17	25°51	T 10
W11	15 15 26	20°16'29	15°42	1843	23° 7	13°33	2°40	28°15	16°54	16°27	10° 6	17°37	17°30	16°24	25°53	W11
T 12	15 19 22	21°14'16	29°15	3°29	24°20	14°17	2°33	28°22	16°52	16°26	10° 7	17°37	17°27	16°30	25°55	T 12
F 13	15 23 19	22°12'00	13 ≏ 14	5°17	25°34	15° 0	2°26	28°29	16°50	16°24	10° 9	17°38	17°24	16°37	25°57	F 13
S 14	15 27 16	23° 9'43	27°39	7° 7	26°48	15°44	2°19	28°36	16°47	16°23	10°10	17°38	17°20	16°44	25°59	S 14
S 15	15 31 12	24° 7'25	12 M 25	8°59	28° 2	16°27	2°13	28°43	16°45	16°21	10°11	17°R38	17°17	16°50	26° 2	S 15
M16	15 35 9	25° 5'05	27°26	10°53	29°16	17°10	2° 6	28°50	16°43	16°20	10°13	17°38	17°14	16°57	26° 4	M16
T 17	15 39 5	26° 2'45	12 × 34	12°49	0∏29	17°54	2° 0	28°57	16°41	16°18	10°14	17°38	17°11	17° 4	26° 7	T 17
W18	15 43 2	27° 0'22	27°39	14°47	1°43	18°37	1°53	29° 4	16°39	16°17	10°15	17°37	17° 8	17°10	26° 9	W18
T 19	15 46 58	27°57'59	12 る 33	16°48	2°57	19°20	1°47	29°11	16°36	16°15	10°17	17°36	17° 5	17°17	26°12	T 19
F 20	15 50 55	28°55'35	27° 8	18°50	4°11	20° 3	1°41	29°18	16°34	16°14	10°18	17°35	17° 1	17°24	26°15	F 20
S 21	15 54 52	29°53'10	11≈22	20°53	5°24	20°46	1°35	29°25	16°32	16°12	10°19	17°34	16°58	17°30	26°18	S 21
S 22	15 58 48	0 Ⅲ 50'44	25°10	22°59	6°38	21°29	1°29	29°32	16°29	16°11	10°21	17°D33	16°55	17°37	26°21	S 22
M23	16 2 45	1°48'17	8) 34	25° 6	7°52	22°12	1°23	29°39	16°27	16° 9	10°22	17°33	16°52	17°44	26°24	M23
T 24	16 641	2°45'49	21°36	27°14	9° 6	22°55	1°17	29°47	16°25	16° 8	10°24	17°34	16°49	17°50	26°27	T 24
W25	16 10 38	3°43'20	4 Υ 18	29°24	10°19	23°38	1°12	29°54	16°22	16° 6	10°25	17°35	16°46	17°57	26°30	W25
T 26	16 14 34	4°40'50	16°43	1 II 34	11°33	24°21	1° 6	0ණ 1	16°20	16° 5	10°26	17°36	16°42	18° 4	26°34	T 26
F 27	16 18 31	5°38'20	28°56	3°45	12°47	25° 4	1° 1	0° 9	16°17	16° 3	10°28	17°38	16°39	18°10	26°37	F 27
S 28	16 22 27	6°35'49	10859	5°57	14° 1	25°46	0°56	0°16	16°15	16° 1	10°29	17°38	16°36	18°17	26°41	S 28
S 29	16 26 24	7°33'16	22°54	8° 9	15°14	26°29	0°51	0°23	16°13	16° 0	10°30	17°R38	16°33	18°24	26°45	S 29
M30	16 30 21	8°30'43	4 ∐ 45	10°21	16°28	27°12	0°46	0°31	16°10	15°58	10°32	17°37	16°30	18°30	26°48	M30
T 31	16 34 17	9∏28'09	16∏34	12 II 33	17 Ⅱ 42	27 8 54	0 M .42	0938	16 才 8	15 ₹ 57	10 Ⅱ 33	17 8 35	16826	18 Ⅱ 37	$26\Omega52$	T 31

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F 13 S 14 S 15 M16 T 17 W18 T 19 F 20 S 21	19 32 19 45 19 58	15 8 0 29 20 30 0s54 24 34 2 14 26 52 3 24 27 12 4 20 25 37 4 57	12 13 1 4 12 58 1 3 13 42 1 3 14 26 1 2 15 10 1 1 15 55 1 16 38 0 5	7	6 41 0 7 6 54 0 6 7 7 0 5 7 19 0 5 7 32 0 4	10 59 1 24 10 57 1 24 10 55 1 24 10 53 1 24 10 51 1 23 10 49 1 23 10 47 1 23	22 45 0 43 22 46 0 43 22 47 0 43	22 53 0 3 22 52 0 3 22 51 0 3	21 20 1 28 21 19 1 28 21 18 1 28 21 18 1 28	12 16 9 51 12 16 9 51 12 16 9 51 12 16 9 51 12 17 9 51 12 17 9 51 12 17 9 51	17 8 17 8 17 8 17 7 17 7 17 7	17 3 25 17 2 25 17 1 25 17 0 25 16 59 25	23 7 30 5 41 25 7 30 5 40 26 7 30 5 39 28 7 30 5 39 29 7 30 5 38
S 22 M23 T 24 W25 T 26 F 27 S 28 S 29 M30	20 45 20 56 21 7 21 17	12 56 4 56 7 22 4 23 1 37 3 37 4n 5 2 43 9 32 1 42 14 34 0 37 19 0 0n29	18 46 0 1 19 26 0 20 5 0n 2 20 43 0 1 21 19 0 2 21 53 0 3 22 25 0 4	9 21 58 0 7 1 2 22 11 0 9 1 2 22 24 0 11 1 3 22 36 0 14 1 3 22 48 0 16 1 3 22 59 0 19 1	8 20 0 1 8 32 0 1 8 43 0 0 8 54 0n 1 9 5 0 1 9 16 0 2 9 27 0 2	10 41 1 22 10 40 1 22 10 38 1 22 10 36 1 22 10 35 1 22 10 33 1 21 10 32 1 21	22 47 0 42 22 48 0 42 22 48 0 42	22 51 0 3 22 50 0 3 22 49 0 3	21 18 1 28 21 18 1 28 21 18 1 28 21 18 1 28 21 17 1 28	12 18 9 51 12 18 9 51 12 19 9 51 12 19 9 50 12 19 9 50 12 19 9 50 12 19 9 50	17 6 17 6 17 7 17 7 17 7 17 8 17 8	16 54 25 16 53 25 16 52 25 16 51 25	33 7 29 5 35 35 7 29 5 34 36 7 28 5 34 37 7 28 5 33 39 7 27 5 32 40 7 27 5 31 41 7 27 5 30

Julian Day Number = 2323830.5, Delta T = 43.08 sec Ecliptic obliquity = $23^{\circ}29'11$, Nutation = - $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}51'35$, Lahiri = $18^{\circ}58'35$ Greg. Calendar

JUNE 1650 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)Å(ħ	Р	N.	U	Ç	, k	Day
W 1	16 38 14	10 Ⅲ 25'35	28 Ⅲ 23	14∏44	18 Ⅱ 55	28 8 37	0°R37	09546	16°R 5	15°R55	10 Ⅲ 35	17°R32	16823	18 Ⅱ 44	26€56	W 1
T 2	16 42 10	11°22'59	109513	16°54	20° 9	29°19	0 M .33	0°53	16 ₮ 3	15 ₹ 53	10°36	17829	16°20	18°50	27° 0	T 2
F 3	16 46 7	12°20'22	22° 8	19° 4	21°23	0耳 2	0°29	1° 1	16° 0	15°52	10°37	17°25	16°17	18°57	27° 5	F 3
S 4	16 50 3	13°17'44	4 Ω 10	21°12	22°36	0°44	0°24	1° 9	15°58	15°50	10°39	17°21	16°14	19° 4	27° 9	S 4
S 5	16 54 0	14°15'06	16°21	23°18	23°50	1°26	0°21	1°16	15°56	15°48	10°40	17°17	16°11	19°10	27°13	S 5
M 6	16 57 56	15°12'26	28°46	25°23	25° 4	2° 9	0°17	1°24	15°53	15°47	10°42	17°15	16° 7	19°17	27°18	M 6
T 7	17 1 53	16° 9'45	11 m 27	27°26	26°17	2°51	0°13	1°31	15°51	15°45	10°43	17°D14	16° 4	19°24	27°22	T 7
W 8	17 5 50	17° 7'03	24°29	29°27	27°31	3°33	0°10	1°39	15°48	15°44	10°44	17°14	16° 1	19°30	27°27	W 8
T 9	17 9 46	18° 4'20	7 ≙ 54	19526	28°44	4°15	0° 7	1°47	15°46	15°42	10°46	17°15	15°58	19°37	27°32	T 9
F 10	17 13 43	19° 1'36	21°45	3°23	29°58	4°57	0° 4	1°54	15°43	15°40	10°47	17°17	15°55	19°44	27°37	F 10
S 11	17 17 39	19°58'52	6M 2	5°17	19512	5°39	0° 1	2° 2	15°41	15°39	10°48	17°18	15°52	19°50	27°42	S 11
S 12	17 21 36	20°56'07	20°43	7° 9	2°25	6°21	29 ≙ 58	2°10	15°38	15°37	10°50	17°R18	15°48	19°57	27°47	S 12
M13	17 25 32	21°53'21	5 ∡ 143	9° 0	3°39	7° 3	29°56	2°18	15°36	15°36	10°51	17°17	15°45	20° 4	27°52	M13
T 14	17 29 29	22°50'34	20°56	10°47	4°52	7°45	29°53	2°25	15°33	15°34	10°53	17°14	15°42	20°10	27°57	T 14
W15	17 33 25	23°47'47	6 ਰ 11	12°33	6° 6	8°26	29°51	2°33	15°31	15°32	10°54	17°10	15°39	20°17	28° 2	W15
T 16	17 37 22	24°45'00	21°18	14°16	7°19	9° 8	29°49	2°41	15°29	15°31	10°55	17° 5	15°36	20°24	28° 7	T 16
F 17	17 41 19	25°42'12	6≈ 7	15°57	8°33	9°50	29°47	2°49	15°26	15°29	10°57	16°59	15°32	20°30	28°13	F 17
S 18	17 45 15	26°39'25	20°33	17°35	9°46	10°31	29°46	2°56	15°24	15°28	10°58	16°55	15°29	20°37	28°18	S 18
S 19	17 49 12	27°36'37	4) €30	19°11	11° 0	11°13	29°44	3° 4	15°21	15°26	10°59	16°51	15°26	20°44	28°24	S 19
M20	17 53 8	28°33'48	17°59	20°45	12°13	11°54	29°43	3°12	15°19	15°24	11° 1	16°49	15°23	20°50	28°30	M20
T 21	17 57 5	29°31'00	1 Υ 1	22°16	13°27	12°36	29°42	3°20	15°17	15°23	11° 2	16°D48	15°20	20°57	28°35	T 21
W22	18 1 1	09528'12	13°39	23°45	14°40	13°17	29°41	3°28	15°14	15°21	11° 3	16°49	15°17	21° 4	28°41	W22
T 23	18 4 58	1°25'24	25°59	25°11	15°54	13°59	29°40	3°36	15°12	15°20	11° 5	16°50	15°13	21°10	28°47	T 23
F 24	18 8 54	2°22'36	8 8 4	26°35	17° 7	14°40	29°40	3°43	15°10	15°18	11° 6	16°51	15°10	21°17	28°53	F 24
S 25	18 12 51	3°19'48	20° 0	27°56	18°21	15°21	29°39	3°51	15° 7	15°17	11° 7	16°R52	15° 7	21°24	28°59	S 25
S 26	18 16 48	4°17'01	1耳50	29°15	19°34	16° 2	29°39	3°59	15° 5	15°15	11° 9	16°50	15° 4	21°30	29° 5	S 26
M27	18 20 44	5°14'13	13°38	0 Ω 31	20°48	16°44	29°D39	4° 7	15° 3	15°14	11°10	16°47	15° 1	21°37	29°11	M27
T 28	18 24 41	6°11'25	25°26	1°45	22° 1	17°25	29°39	4°15	15° 1	15°12	11°11	16°42	14°58	21°44	29°18	T 28
W29	18 28 37	7° 8'38	<i>7</i> 9517	2°56	23°15	18° 6	29°39	4°23	14°58	15°11	11°12	16°34	14°54	21°50	29°24	W29
T 30	18 32 34	89 5'50	199513	4Ω 4	249528	18 Ⅱ 47	29 ≏ 40	4930	14 ×7 56	15 × 9	11 Ⅱ 14	16 8 25	14851	21 II 57	$29\Omega 30$	T 30

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W 1	22n 3	26n54	3n26	23n46	1n10	23n27	0n26	19n58	0n 4	10s27	1n20	22n48	0 s41	22 s49	0s 3	21 s16	1n28	12n20	9s50	17n 6	16n46	25n45	7n25	5 s28
T 2	22 11	27 15	4 10	-	1 18	23 35	0 28			10 26		22 48		22 48		21 16	1 28		9 50			25 47	7 24	5 27
F 3		26 20		24 27	1 26			20 17				22 48		22 48		21 16	1 28		9 50		-	25 48	7 23	5 27
S 4	22 26	24 12	5 5	24 44	1 32	23 49	0 33	20 27	0 6	10 24	1 20	22 48	0 41	22 48	0 3	21 16	1 28	12 21	9 50	17 3	16 44	25 49	7 23	5 26
S 5	22 33	20 57	5 13	24 57	1 38	23 55	0 35	20 36	0 7	10 22	1 19	22 48	0 41	22 48	0 3	21 16	1 28	12 21	9 50	17 2	16 43	25 51	7 22	5 25
M 6	22 40	16 43	5 7	25 8	1 44	24 1	0 37	20 45	0 8	10 21	1 19	22 48	0 41	22 47	0 3	21 16	1 28	12 21	9 50	17 1	16 42	25 52	7 21	5 24
T 7	22 46		-	25 16	1 48	-		20 54		10 20		22 48		22 47		21 16	1 28		9 50			25 53	7 20	5 24
W 8	22 52	-	-	25 21	1 52		0 42			10 19		22 48		22 47		21 15	1 28		9 50			25 54	7 19	5 23
T 9	22 57			25 24		24 13		21 11		10 19		22 48		22 47		21 15	1 28		9 50			25 56	7 19	5 22
F 10	23 2			25 25		24 15		21 20		10 18		22 48		22 46		21 15			9 50		16 38		7 18	5 21
S 11	23 6	12 36	1 1	25 22	2 0	24 17	0 48	21 28	0 11	10 17	1 18	22 48	0 40	22 46	0 3	21 15	1 28	12 22	9 50	1/ 2	16 3/	25 58	7 17	5 21
S 12	_	18 16		25 18				21 36		10 16		22 48		22 46		21 15			9 50			25 59	7 16	5 20
M13	_	22 55		25 11	2 1			21 44		10 16		22 48		22 46		21 15			9 50		16 35		7 15	5 19
T 14	23 18		2 53		2 0	-		21 51		10 15		22 48		22 45		21 14	1 28	12 23	9 50		16 34		7 13	5 18
W15	23 20			24 52	1 59			21 58		10 15		22 48		22 45		21 14	1 28	12 23	9 50		16 33		7 12	5 18
T 16		26 24	-	24 40	1 57	-	0 58			10 14		22 48		22 45		21 14	1 28				16 32		7 11	5 17
F 17 S 18	23 25	23 42 19 34		24 26 24 10	1 55	24 13 24 9		22 12 22 19		10 14 10 13		22 48 22 48		22 45 22 44		21 14	1 28 1 28				16 32 16 31		7 10 7 9	5 16 5 16
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S 19	23 28	_		23 53	1 47	-	1 4	-		10 13		22 48		22 44		21 14					16 30		7 7	5 15
M20	23 29		-	23 35	1 43			22 32		10 13		22 48		22 44		21 13					16 29		7 6	5 14
T 21	23 29			23 15		23 55		22 38		10 13		22 47		22 44		21 13						26 10	7 5	5 14
W22 T 23	23 29	-		22 54		23 49 23 42		22 44 22 50		10 13		22 47		22 43		21 13	1 28 1 28				16 27		7 4	5 13 5 12
F 24	23 29 23 28			22 32 22 10		23 42		22 55		10 13 10 13		22 47 22 47		22 43 22 43		21 13	1 28					26 13 26 14	7 2 7 1	5 12
S 25	23 28			21 46		23 27	1 12			10 13		22 47		22 43		21 13 21 13	1 28				-	26 15	6 59	5 12
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S 26	-			21 22		23 18	1 15			10 13		22 47		22 42		21 13		12 25				26 16	6 58	5 10
M27	23 23			20 58	0 54			23 10	0 21			22 47		22 42		21 12	1 28				-	26 17	6 56	5 10
T 28				20 33		22 58		23 15		10 14		22 47		22 42		21 12					-	26 18	6 55	5 9
	23 18			20 7		22 47		23 19		10 14		22 46		22 42		21 12	1 28					26 20	6 53	5 9
1 30	23n14	26n36	4n32	19n41	0n25	22n36	In21	23n23	0n23	10s14	In13	22n46	Us38	22 s41	0s 3	21 s12	1n28	12n25	9s50	16n47	16n19	26n21	6n51	5 s 8

Julian Day Number = 2323861.5, Delta T = 43.02 sec Ecliptic obliquity = 23°29'11, Nutation = -0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°51'39, Lahiri = 18°58'39Greg. Calendar

JULY 1650 GC 00:00 UT

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F 1	18 36 30	995 3'03	1Ω16	5 Ω 9	259542	19 Ⅲ 28	29 <u>₽</u> 41	4938	14°R54	15°R 8	11 I I15	16°R15	14848	22耳 4	29 Ω 37	F 1
S 2	18 40 27	10° 0'15	13°26	6°12	26°55	20° 9	29°42	4°46	14 ∡ 752	15 ₹ 6	11°16	16 8 6	14°45	22°11	29°43	S 2
S 3	18 44 24	10°57'27	25°45	7°11	28° 9	20°49	29°43	4°54	14°50	15° 5	11°17	15°57	14°42	22°17	29°50	S 3
M 4	18 48 20	11°54'39	8 M p16	8° 7	29°22	21°30	29°44	5° 2	14°48	15° 4	11°19	15°50	14°38	22°24	29°57	M 4
T 5	18 52 17	12°51'52	21° 1	9° 0	0 Ω 36	22°11	29°45	5° 9	14°46	15° 2	11°20	15°46	14°35	22°31	0 Mp 3	T 5
W 6	18 56 13	13°49'04	4 ♀ 1	9°50	1°49	22°52	29°47	5°17	14°43	15° 1	11°21	15°44	14°32	22°37	0°10	W 6
T 7	19 0 10	14°46'16	17°22	10°36	3° 2	23°32	29°49	5°25	14°41	14°59	11°22	15°D43	14°29	22°44	0°17	T 7
F 8	19 4 6	15°43'28	1 m 3	11°19	4°16	24°13	29°51	5°33	14°39	14°58	11°23	15°44	14°26	22°51	0°24	F 8
S 9	19 8 3	16°40'40	15° 8	11°57	5°29	24°54	29°53	5°40	14°38	14°57	11°25	15°R44	14°23	22°57	0°31	S 9
S 10	19 11 59	17°37'52	29°35	12°32	6°42	25°34	29°55	5°48	14°36	14°55	11°26	15°44	14°19	23° 4	0°38	S 10
M11	19 15 56	18°35'04	14 × 23	13° 3	7°56	26°14	29°57	5°56	14°34	14°54	11°27	15°41	14°16	23°11	0°45	M11
T 12	19 19 53	19°32'17	29°26	13°30	9° 9	26°55	0 M 0	6° 4	14°32	14°53	11°28	15°36	14°13	23°17	0°52	T 12
W13	19 23 49	20°29'30	14 궁 35	13°52	10°22	27°35	0° 3	6°11	14°30	14°52	11°29	15°28	14°10	23°24	0°59	W13
T 14	19 27 46	21°26'43	29°40	14°10	11°36	28°15	0° 6	6°19	14°28	14°50	11°30	15°19	14° 7	23°31	1° 6	T 14
F 15	19 31 42	22°23'57	14 ≈ 32	14°23	12°49	28°56	0° 9	6°27	14°26	14°49	11°31	15° 9	14° 4	23°37	1°14	F 15
S 16	19 35 39	23°21'11	29° 2	14°31	14° 2	29°36	0°12	6°34	14°25	14°48	11°32	15° 0	14° 0	23°44	1°21	S 16
S 17	19 39 35	24°18'26	13 米 6	14°R35	15°16	09୍ତୀ6	0°16	6°42	14°23	14°47	11°33	14°53	13°57	23°51	1°28	S 17
M18	19 43 32	25°15'42	26°39	14°33	16°29	0°56	0°20	6°49	14°21	14°46	11°35	14°47	13°54	23°57	1°36	M18
T 19	19 47 28	26°12'59	9 Ƴ 45	14°27	17°42	1°36	0°23	6°57	14°20	14°45	11°36	14°44	13°51	24° 4	1°43	T 19
W20	19 51 25	27°10'16	22°25	14°15	18°55	2°16	0°27	7° 4	14°18	14°44	11°37	14°D43	13°48	24°11	1°51	W20
T 21	19 55 22	28° 7'35	4 8 45	13°59	20° 9	2°56	0°31	7°12	14°17	14°42	11°38	14°43	13°44	24°17	1°58	T 21
F 22	19 59 18	29° 4'54	16°49	13°38	21°22	3°36	0°36	7°19	14°15	14°41	11°39	14°R43	13°41	24°24	2° 6	F 22
S 23	20 3 15	0 Ω 2'15	28°43	13°12	22°35	4°16	0°40	7°27	14°14	14°40	11°40	14°42	13°38	24°31	2°14	S 23
S 24	20 7 11	0°59'37	10 Ⅲ 31	12°42	23°48	4°56	0°45	7°34	14°12	14°39	11°41	14°40	13°35	24°37	2°21	S 24
M25	20 11 8	1°57'00	22°19	12° 8	25° 1	5°36	0°50	7°42	14°11	14°38	11°42	14°35	13°32	24°44	2°29	M25
T 26	20 15 4	2°54'23	49510	11°30	26°14	6°15	0°55	7°49	14° 9	14°37	11°42	14°27	13°29	24°51	2°37	T 26
W27	20 19 1	3°51'48	16° 6	10°49	27°28	6°55	1° 0	7°56	14° 8	14°36	11°43	14°16	13°25	24°57	2°45	W27
T 28	20 22 57	4°49'14	28°11	10° 6	28°41	7°35	1° 5	8° 4	14° 7	14°36	11°44	14° 4	13°22	25° 4	2°53	T 28
F 29	20 26 54	5°46'40	10 Ω 24	9°21	29°54	8°14	1°10	8°11	14° 6	14°35	11°45	13°50	13°19	25°11	3° 1	F 29
S 30	20 30 51	6°44'08	22°47	8°34	1 Mp 7	8°54	1°16	8°18	14° 4	14°34	11°46	13°37	13°16	25°17	3° 9	S 30
S 31	20 34 47	7 Ω 41'36	5 m)21	7 Ω 48	2 Mp 20	9933	1 M 22	8925	14 ∡ 3	14 × 33	11 Ⅱ 47	13 8 25	13 8 13	25∏24	3 m) 17	S 31

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F 1 S 2	_	24n43 41 21 41 5	n55 19n1 5 18 4		15 22n23 4 22 10	1n22 1 23	23n27 23 31	0n23 0 24			22n46 22 46		22 s41 22 41		21 s12 21 12	1n28 1 28	12n25 12 25		16n44 16 41		-	6n50 6 48	5 s 7 5 7
S 3 M 4 T 5 W 6 T 7	23 2 22 57 22 52 22 46 22 40	12 51 4 7 24 4 1 31 3	1 18 2 43 17 3 10 17 3 24 17 26 16 4	8 0 3 62 0 3 7 0 4	-	1 25 1 26 1 27	23 35 23 38 23 41 23 44 23 47	0 25	10 18 10 18	1 12 1 11 1 11	22 46 22 45 22 45 22 45 22 45	0 38 0 38 0 38	22 41 22 40 22 40 22 40 22 40	0 3 0 3 0 3	21 12 21 12 21 11 21 11 21 11	1 28 1 28 1 28 1 28 1 28	12 25 12 26 12 26 12 26 12 26	9 51 9 51 9 51	16 39 16 37 16 35 16 35 16 35	16 16 16 15 16 14	26 25 26 26 26 27	6 46 6 45 6 43 6 41 6 39	5 6 5 6 5 5 5 4 5 4
F 8 S 9	22 33		18 16	8 1	10 20 40 24 20 23	1 29	23 49 23 52	0 28	10 20 10 21	1 11	22 44 22 44	0 38	22 40 22 39	0 3	21 11 21 11	1 28 1 28	12 26	9 51	16 35	16 12		6 37 6 35	5 3 5 3
S 10 M11 T 12 W13 T 14 F 15 S 16	22 12 22 4 21 55 21 46 21 37	25 0 2 27 0 3 27 0 4 25 1 4 21 20 5	s13 15 3 27 15 31 14 4 21 14 2 52 14 1 3 13 5 54 13 3	9 1 3 8 2 9 2 3 0 2 3 3 2 4	51 19 47 5 19 28 19 19 9	1 31 1 31 1 32		0 30 0 30 0 31 0 31 0 32	10 22 10 23 10 25 10 26 10 27 10 29 10 30	1 10 1 10 1 9 1 9 1 9	22 44 22 43 22 43 22 43 22 42 22 42	0 38 0 38 0 37 0 37 0 37	22 39 22 39 22 39 22 38 22 38 22 38 22 38	0 3 0 3 0 3 0 3 0 3	21 11 21 11 21 11 21 10 21 10 21 10 21 10	1 28 1 28 1 28 1 28 1 28 1 27 1 27	12 26 12 26 12 26 12 26 12 26	9 51 9 51 9 51 9 51 9 51	16 35 16 34 16 33 16 30 16 28 16 25 16 22	16 9 16 8 16 7 16 6 16 5	26 32 26 33 26 34 26 35 26 36 26 37 26 38	6 33 6 31 6 30 6 27 6 25 6 23 6 21	5 2 5 2 5 1 5 1 5 0 5 0 4 59
S 17 M18 T 19 W20 T 21 F 22 S 23	21 8 20 57 20 46	4 47 3 1n12 2 6 57 1 12 18 0 17 4 0n	27 13 2 46 13 1 55 13 56 12 3 53 12 4 14 12 3	1 3 2 1 3 4 62 3 5 66 4 1 4 1	11 17 2	1 33	24 2 24 3 24 3 24 3 24 3 24 3	0 34 0 34 0 35 0 36 0 36		1 8 1 8 1 8 1 7 1 7 1 7	22 42 22 42 22 41	0 37 0 37 0 37 0 37 0 37	22 38 22 37 22 37 22 37 22 37 22 37 22 37	0 3 0 3 0 4 0 4 0 4 0 4	21 10 21 10 21 10 21 10 21 10 21 10 21 10 21 10	1 27 1 27 1 27 1 27 1 27 1 27	12 26 12 26 12 26 12 26 12 26	9 52 9 52 9 52 9 52 9 52 9 52 9 52	16 20 16 18 16 17 16 17 16 17 16 17 16 17	16 3 16 3 16 2 16 1 16 0 15 59		6 19 6 17 6 15 6 13 6 10 6 8 6 6	4 59 4 58 4 58 4 57 4 57 4 56 4 56
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	19 46 19 33 19 20 19 6 18 52 18 38	26 21 3 27 15 3 26 54 4 25 17 4 22 28 4 18 36 4	12 12 4 5 12 4 50 12 4 25 12 5 49 13 59 13 1 56 13 2	12 4 4 17 4 4 13 4 5 2 4 5 3 4 5 4 5	11 14 39 16 14 14 51 13 48 54 13 22	1 31 1 31 1 30 1 29		0 38 0 39 0 39 0 40 0 41 0 41	10 43 10 45 10 47 10 49 10 51 10 53 10 55	1 6 1 6 1 6 1 5 1 5	22 39 22 39 22 39 22 38 22 38 22 38 22 37 22n37	0 37 0 37 0 37 0 36 0 36 0 36	22 36 22 36	0 4 0 4 0 4 0 4 0 4	21 10 21 9 21 9 21 9 21 9 21 9 21 9 21 9	1 27 1 27 1 27 1 27 1 27 1 27	12 26 12 26 12 26 12 26	9 53 9 53 9 53 9 53 9 53 9 53	16 15 16 12 16 9 16 5 16 1 15 58	15 56 15 55 15 54 15 53 15 52 15 51	26 48 26 49 26 50	6 4 6 1 5 59 5 57 5 54 5 52 5 49 5n47	4 55 4 55 4 54 4 54 4 53 4 53 4 53 4 53

 $\label{eq:Julian Day Number = 2323891.5, Delta T = 42.97 sec} \\ Ecliptic obliquity = 23°29'11, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°51'43, Lahiri = 18°58'44Greg. Calendar \\ \\$

AUGUST 1650 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ţ(1 f	В	R	Ω	Ç	ķ	Day
M 1	20 38 44	8€39'05	18 m) 5	7°R 2	3 m 33	109513	1 M 27	8933	14°R 2	14°R32	11 II 48	13°R16	13810	25Ⅲ31	3 m 25	M 1
T 2	20 42 40	9°36'36	1 <u>a</u> 2	6 Ω 18	4°46	10°52	1°33	8°40	14 % 1	14 × 32	11°49	138 9	13° 6	25°38	3°33	T 2
W 3	20 46 37	10°34'06	14°10	5°37	5°59	11°32	1°40	8°47	14° 0	14°31	11°49	13° 5	13° 3	25°44	3°41	W 3
T 4	20 50 33	11°31'38	27°33	4°58	7°12	12°11	1°46	8°54	13°59	14°30	11°50	13° 3	13° 0	25°51	3°49	T 4
F 5	20 54 30	12°29'11	11 M 12	4°24	8°25	12°50	1°52	9° 1	13°58	14°29	11°51	13° 3	12°57	25°58	3°57	F 5
S 6	20 58 26	13°26'44	25° 8	3°54	9°38	13°29	1°59	9° 8	13°57	14°29	11°52	13° 3	12°54	26° 4	4° 5	S 6
S 7	21 2 23	14°24'19	9 ₹ 22	3°29	10°51	14° 8	2° 5	9°15	13°57	14°28	11°52	13° 2	12°50	26°11	4°13	S 7
M 8	21 6 20	15°21'54	2 <u>3</u> °52	3°11	12° 4	14°47	2°12	9°22	13°56	14°28	11°53	12°58	12°47	26°18	4°22	M 8
T 9	21 10 16	16°19'31	8 궁 34	2°59	13°17	15°27	2°19	9°28	13°55	14°27	11°54	12°52	12°44	26°24	4°30	T 9
W10	21 14 13	17°17'08	23°24	2°D54	14°30	16° 6	2°26	9°35	13°54	14°26	11°55	12°44	12°41	26°31	4°38	W10
T 11	21 18 9	18°14'47	8 ≈ 13	2°55	15°43	16°44	2°34	9°42	13°54	14°26	11°55	12°33	12°38	26°38	4°46	T 11
F 12 S 13	21 22 6 21 26 2	19°12'27 20°10'08	22°53 7) 15	3° 4 3°21	16°56 18°8	17°23 18° 2	2°41 2°48	9°49 9°55	13°53 13°53	14°25 14°25	11°56 11°57	12°22 12°11	12°35 12°31	26°44 26°51	4°55 5° 3	F 12 S 13
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S 14	21 29 59	21° 7'50	21°15	3°45	19°21	18°41	2°56	10° 2	13°52	14°25	11°57	12° 2	12°28	26°58	5°12	S 14
M15	21 33 55	22° 5'34	4 Υ48	4°16	20°34	19°20	3° 4	10° 8	13°52	14°24	11°58	11°55	12°25	27° 4	5°20	M15
T 16	21 37 52	23° 3'20	17°55	4°55	21°47	19°59	3°12	10°15	13°51	14°24	11°58	11°51	12°22	27°11	5°28	T 16
W17	21 41 49	24° 1'07	0837	5°41	22°59	20°37	3°20	10°21	13°51	14°24	11°59	11°49	12°19	27°18	5°37	W17
T 18 F 19	21 45 45 21 49 42	24°58'56 25°56'47	12°59 25° 4	6°35 7°35	24°12 25°25	21°16 21°54	3°28 3°36	10°28 10°34	13°51 13°51	14°23 14°23	11°59 12° 0	11°D48 11°R49	12°16 12°12	27°24 27°31	5°45 5°54	T 18 F 19
S 20	21 49 42	25°54'40	6 耳 59	8°42	25°23 26°38	21°34 22°33	3°44	10°34 10°40	13°50	14 23 14°23	12° 0	11°48	12 12 12° 9	27°38	6° 2	S 20
S 21	21 57 35	27°52'34	18°49	9°55	27°50 29° 3	23°11	3°53	10°46	13°50	14°23	12° 1	11°46	12° 6	27°45	6°11	S 21
M22 T 23	22 1 31 22 5 28	28°50'31 29°48'29	0 © 39 12°33	11°14 12°38	29° 3 0 ≏ 15	23°50 24°28	4° 1 4°10	10°52 10°58	13°50 13°D50	14°22 14°22	12° 1 12° 2	11°42 11°35	12° 3 12° 0	27°51 27°58	6°19 6°28	M22 T 23
W24	22 9 24	0 m 46'29	24°35	12 38 14° 7	1°28	24 28 25° 7	4°19	10 38 11° 4	13°50	14°22	12° 2	11°26	11°56	27 38 28° 5	6°36	W24
T 25	22 13 21	1°44'30	6 Ω 48	15°42	2°41	25°45	4°28	11°10	13°50	14°22	12° 2	11°15	11°53	28°11	6°45	T 25
F 26	22 17 18	2°42'34	19°14	17°20	3°53	26°23	4°37	11°16	13°50	14°D22	12° 3	11° 3	11°50	28°18	6°53	F 26
S 27	22 21 14	3°40'39	1 m 53	19° 2	5° 6	27° 1	4°46	11°22	13°51	14°22	12° 3	10°51	11°47	28°25	7° 2	S 27
S 28	22 25 11	4°38'45	14°44	20°47	6°18	27°40	4°55	11°28	13°51	14°22	12° 3	10°40	11°44	28°31	7°10	S 28
M29	22 29 7	5°36'54	27°49	22°34	7°30	28°18	5° 5	11°34	13°51	14°22	12° 4	10°32	11°41	28°38	7°19	M29
T 30	22 33 4	6°35'04	11 ♀ 5	24°24	8°43	28°56	5°14	11°39	13°52	14°22	12° 4	10°26	11°37	28°45	7°28	T 30
W31	22 37 0	7 m/ 33'15	24 ₽ 31	26 Ω 16	9 ≙ 55	29934	5 m 24	119545	13 × 52	14 × 122	12 II 4	10822	11834	28 I I51	7 Mp 36	W31

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M 1 T 2	18n 8 17 53	8n30 4n 2 41 3 2				1n28 1 27	23n48 23 45	0n42 0 43	11s 0		22n36 22 36		22 s35 22 35		1 21s 9 1 21 9		-		15n51		26n53 26 54	5n44 5 42	4 s 5 2 4 5 1
W 3	17 37	3 s 2 1 2 2		-		1 26		0 43					22 35		1 21 9		12 26	-			26 55	5 39	4 51
T 4	17 22	-	14 48				23 40						22 35		1 21 9		12 26				26 55	5 37	4 51
F 5 S 6	17 5 16 49	15 4 0 1 20 7 1s	10 15 7 3 15 26		9 43 9 14		23 3623 33	0 45 0 45	11 9 11 12				22 35 22 35		1 21 9 1 21 9		12 26 12 26	-	15 47 15 47		26 56 26 57	5 34 5 32	4 50 4 50
S 7	16 33		15 45		8 45		23 30		11 14		22 34		22 35		1 21 9						26 58	5 29	4 50
M 8 T 9	16 16 15 58		8 16 4 9 16 22		8 16 7 47	1 19 2	23 26		11 17 11 20	_	_		22 35 22 35		1 21 9		-		15 46 15 44		26 59 27 0	5 26 5 24	4 49
W10	15 38		9 16 22		7 17	1 16			11 20				22 35		1 21 9 1 21 9	1 26 1 26			15 44			5 24	4 49
T 11	-		0 16 55		6 48	1 15			11 25				22 34		1 21 9	1 26	-		15 38			5 18	4 48
F 12		18 34 4 5		-	6 18		23 10		11 28				22 34		1 21 9	1 26			15 35			5 16	4 48
S 13	14 47	13 5 4 3	33 17 23	2 7	5 48	1 11 2	23 5	0 49	11 30	1 2	22 31	0 36	22 34	0 4	1 21 9	1 26	12 26	9 55	15 31	15 38	27 3	5 13	4 48
S 14	14 29		17 34		5 17		23 0		11 33				22 34		1 21 9		-		15 29			5 10	4 47
M15 T 16	14 10 13 52		2 17 44 3 17 51	1 33 1 16	4 47 4 16	-	22 56 22 50	0 51 0 51	11 36 11 39			0 36	22 34 22 34		1 21 9 1 21 9	1 26 1 26	12 26 12 25		15 26 15 25			5 7 5 5	4 47 4 47
W17			59 17 56	-	3 46		22 45	0 52					22 34		1 21 9	1 26			15 25			5 2	4 46
T 18	13 13	15 52 0n	6 17 59	0 42	3 15	1 2	22 40	0 52	11 45	1 0	22 29	0 35	22 34	0 4	1 21 9	1 26	12 25	9 56	15 24	15 33	27 7	4 59	4 46
F 19	-	-	17 59		2 44		22 34		11 48				22 34		1 21 9	1 26			15 24			4 56	4 46
S 20	12 34		9 17 56	0 11	2 13	0 57	-	0 54	11 51	1 0	22 28		22 34		1 21 9	1 26	12 25	9 56	15 24	15 31	27 8	4 53	4 46
S 21 M22	12 14		3 17 51	0n 3	1 42	0 55			11 54		22 28		22 34		1 21 9				15 24			4 50	4 45
T 23	11 54 11 34			0 17 0 29	1 11 0 40	0 53 2	22 17	0 55	11 57 12 0		22 27 22 27		22 34 22 34		1 21 9 1 21 9	1 26 1 26			15 22		27 10 27 10	4 48 4 45	4 45 4 45
W24	11 13		19 17 17		0 40	0 48		0 56			22 26	0 35	_		1 21 9		-		15 18		27 11	4 42	4 45
T 25	10 53		1 16 59	0 52	0 s22	0 46		0 56	12 7	0 59	22 26	0 35			1 21 9	1 26			-		27 12	4 39	4 44
F 26	10 32				0 53	0 43			12 10		22 26		22 34		1 21 9						27 13	4 36	4 44
S 27	-	15 13 4 4			1 24	0 40			12 13		22 25		22 34		1 21 9	1 25		9 58			27 13	4 33	4 44
S 28	9 50	9 52 4 1		-	1 56	0 38			12 16		22 25		22 34		1 21 9			9 58			27 14	4 30	4 44
M29 T 30	9 28 9 7	4 1 3 2 2s 6 2 2		1 26 1 32	2 27 2 58	0 35 2			12 20 12 23		22 24 22 24		22 34 22 34		1 21 9 1 21 9			9 58 9 58			27 15 27 15	4 27 4 24	4 43 4 43
W31	8n45		23 14n18		3 s29	0n30			12 s26		22n23		22 s34		1 21 s10						27n16	4n21	4 s43

Julian Day Number = 2323922.5, Delta T = 42.91 sec Ecliptic obliquity = $23^{\circ}29'12$, Nutation = - $0^{\circ}00'10$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}51'47$, Lahiri = $18^{\circ}58'48$ Greg. Calendar

SEPTEMBER 1650 GC 00:00 UT

JLI	LINDLK	1030 u	C												00.0	0 0.
Day	Sid.t	0	D	ğ	Ş	ď	4	ħ)∤(并	В	S.	Ω	Ç	ķ	Day
T 1	22 40 57	8 mg 31'28	8 M 8	28 N 9	11 ♀ 8	0Ω12	5 M .34	11950	13 х 52	14 × ⁷ 23	12 II 5	10°D21	11831	28П58	7 m 45	T 1
F 2	22 44 53	9°29'43	21°55	0 m y 3	12°20	0°50	5°43	11°56	13°53	14°23	12° 5	10822	11°28	29° 5	7°53	F 2
S 3	22 48 50	10°27'59	5 ₹ 51	1°58	13°32	1°27	5°53	12° 1	13°53	14°23	12° 5	10°R22	11°25	29°11	8° 2	S 3
S 4	22 52 47	11°26'17	19°58	3°53	14°44	2° 5	6° 3	12° 6	13°54	14°23	12° 5	10°22	11°22	29°18	8°10	S 4
M 5	22 56 43	12°24'36	4 ਰ 14	5°48	15°57	2°43	6°13	12°11	13°55	14°24	12° 5	10°20	11°18	29°25	8°19	M 5
T 6	23 0 40	13°22'57	18°36	7°43	17° 9	3°21	6°23	12°16	13°55	14°24	12° 5	10°16	11°15	29°31	8°28	T 6
W 7	23 4 36	14°21'19	3≈ 1	9°38	18°21	3°58	6°34	12°21	13°56	14°24	12° 6	10° 9	11°12	29°38	8°36	W 7
T 8	23 8 33	15°19'43	17°24	11°32	19°33	4°36	6°44	12°26	13°57	14°25	12° 6	10° 1	11° 9	29°45	8°45	T 8
F 9	23 12 29	16°18'09	1) (39	13°26	20°45	5°13	6°54	12°31	13°58	14°25	12° 6	9°53	11° 6	29°52	8°53	F 9
S 10	23 16 26	17°16'36	15°41	15°19	21°57	5°51	7° 5	12°36	13°59	14°26	12° 6	9°44	11° 2	29°58	9° 2	S 10
S 11	23 20 22	18°15'06	29°26	17°11	23° 9	6°28	7°15	12°41	14° 0	14°26	12°R 6	9°37	10°59	0ණ 5	9°10	S 11
M12	23 24 19	19°13'37	12 Y 49	19° 3	24°21	7° 6	7°26	12°45	14° 1	14°27	12° 6	9°32	10°56	0°12	9°19	M12
T 13	23 28 16	20°12'10	25°50	20°53	25°33	7°43	7°37	12°50	14° 2	14°27	12° 6	9°29	10°53	0°18	9°27	T 13
W14	23 32 12	21°10'46	8 8 30	22°43	26°45	8°20	7°48	12°54	14° 3	14°28	12° 6	9°D28	10°50	0°25	9°36	W14
T 15	23 36 9	22° 9'23	20°52	24°31	27°57	8°58	7°59	12°59	14° 4	14°28	12° 6	9°28	10°47	0°32	9°44	T 15
F 16	23 40 5	23° 8'03	2 II 59	26°19	29° 9	9°35	8°10	13° 3	14° 5	14°29	12° 6	9°30	10°43	0°38	9°53	F 16
S 17	23 44 2	24° 6'46	14°55	28° 5	0 M 21	10°12	8°21	13° 7	14° 6	14°30	12° 5	9°31	10°40	0°45	10° 1	S 17
S 18	23 47 58	25° 5'30	26°46	29°51	1°32	10°49	8°32	13°11	14° 8	14°30	12° 5	9°R31	10°37	0°52	10°10	S 18
M19	23 51 55	26° 4'17	8938	1 ≏ 36	2°44	11°26	8°43	13°15	14° 9	14°31	12° 5	9°30	10°34	0°58	10°18	M19
T 20	23 55 51	27° 3'06	20°34	3°20	3°56	12° 3	8°55	13°19	14°10	14°32	12° 5	9°28	10°31	1° 5	10°27	T 20
W21	23 59 48	28° 1'57	2€39	5° 2	5° 7	12°40	9° 6	13°23	14°12	14°33	12° 5	9°23	10°27	1°12	10°35	W21
T 22	0 3 45	29° 0'51	14°58	6°44	6°19	13°17	9°17	13°27	14°13	14°34	12° 5	9°17	10°24	1°19	10°43	T 22
F 23	0 741	29°59'46	27°32	8°25	7°30	13°54	9°29	13°30	14°15	14°35	12° 4	9°10	10°21	1°25	10°52	F 23
S 24	0 11 38	0 ჲ 58'44	10 m)24	10° 5	8°42	14°31	9°41	13°34	14°16	14°35	12° 4	9° 4	10°18	1°32	11° 0	S 24
S 25	0 15 34	1°57'44	23°33	11°44	9°53	15° 7	9°52	13°37	14°18	14°36	12° 4	8°57	10°15	1°39	11° 8	S 25
M26	0 19 31	2°56'46	6 Ω 59	13°23	11° 5	15°44	10° 4	13°41	14°20	14°37	12° 3	8°53	10°12	1°45	11°16	M26
T 27	0 23 27	3°55'50	20°39	15° 0	12°16	16°21	10°16	13°44	14°21	14°38	12° 3	8°49	10° 8	1°52	11°25	T 27
W28	0 27 24	4°54'56	4 M .31	16°37	13°28	16°57	10°28	13°47	14°23	14°39	12° 3	8°D48	10° 5	1°59	11°33	W28
T 29	0 31 20	5°54'04	18°32	18°12	14°39	17°34	10°39	13°50	14°25	14°40	12° 2	8°48	10° 2	2° 5	11°41	T 29
F 30	0 35 17	6 ₽ 53'14	2 ~ 38	19 ≙ 47	15 M 50	$18\Omega10$	10 M 51	13953	14 × 27	14 × 742	12 II 2	8 8 50	9 8 59	29512	11 m)49	F 30

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S 4 M 5 T 6 W 7 T 8	7 17 6 55 6 33 6 10 5 48	27 32 4 7 26 53 4 44 24 26 5 3	11 4 1 10 22 1 9 38 1		20 37 1 3 20 28 1 3 20 20 1 4	12 44 0 57 12 47 0 57 12 51 0 57	22 21 0 35 22 21 0 35 22 20 0 35	22 35 0 4 22 35 0 4 22 35 0 4	21 10 1 25 21 10 1 25	12 23 9 59 12 23 9 59 12 23 10 0	14 57 14 57 14 56 14 54 14 51	15 15 2 15 14 2 15 13 2	27 19 27 20 27 20	4 9 4 42 4 6 4 42 4 3 4 42 4 0 4 42 3 57 4 42
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S 11 M12 T 13 W14 T 15 F 16 S 17	4 39 4 16 3 53 3 30 3 7 2 44 2 21	2n57 2 18 8 52 1 13 14 17 0 5 18 59 1n 1 22 49 2 4	5 48 1 5 1 1 4 14 1 3 26 1 2 39 1	22 11 2 0 17 17 11 31 0 21	19 37 1 7 19 28 1 7 19 19 1 8 19 9 1 9 19 0 1 9	13 9 0 56 13 12 0 56 13 16 0 55 13 20 0 55 13 23 0 55	22 18 0 34 22 18 0 34 22 17 0 34 22 17 0 34 22 17 0 34	22 35 0 4 22 36 0 4 22 36 0 4 22 36 0 4 22 36 0 4	21 11 1 25 21 11 1 25 21 11 1 24 21 11 1 24	12 22 10 0 12 22 10 1 12 21 10 1 12 21 10 1 12 21 10 1	14 43 14 42 14 41 14 40 14 41 14 41 14 41	15 8 2 15 7 2 15 6 2 15 5 2 15 4 2	27 23 27 23 27 24 27 24 27 25 27 26 27 26	3 48 4 41 3 45 4 41 3 42 4 41 3 39 4 41 3 36 4 41 3 33 4 41 3 29 4 41
S 18 M19 T 20 W21 T 22 F 23 S 24	1 34 1 10 0 47 0 24 0 0	26 44 4 53 24 35 5 7 21 17 5 8	0s29 0 1 15 0 2 2 0 2 47 0	1 12 56 0 31 55 13 23 0 34 49 13 51 0 38 43 14 18 0 41 36 14 45 0 45	18 31 1 11 18 21 1 11 18 11 1 12 18 1 1 13 17 51 1 13	13 34 0 55 13 38 0 54 13 42 0 54 13 46 0 54 13 50 0 54	22 16 0 34 22 15 0 34 22 15 0 34 22 15 0 34 22 14 0 34	22 36 0 4 22 37 0 4 22 37 0 4 22 37 0 4 22 37 0 4	21 11 1 24 21 12 1 24	12 20 10 2 12 20 10 2 12 20 10 2 12 20 10 2 12 20 10 2	14 42 14 41 14 40 14 39 14 37 14 35 14 33	15 1 2 15 0 2 14 59 2 14 58 2 14 57 2	27 29 27 29	3 26 4 41 3 23 4 41 3 20 4 41 3 17 4 41 3 14 4 41 3 11 4 40 3 8 4 40
S 25 M26 T 27 W28 T 29 F 30	0 47 1 10 1 34 1 57 2 21 2 s44	5 57 3 41 0s15 2 45 6 35 1 37 12 41 0 23 18 13 0s53 22s48 2s 7	5 3 0 5 47 0 6 30 0 7 14 0s	16 16 3 0 55 9 16 29 0 58 2 16 54 1 2 s 5 17 18 1 5	17 21 1 15 17 10 1 15 17 0 1 16 16 49 1 17	14 1 0 54 14 5 0 53 14 9 0 53 14 13 0 53	22 13 0 34 22 13 0 34 22 13 0 34 22 12 0 34	22 38 0 4 22 38 0 4 22 38 0 4 22 38 0 4	21 12 1 24 21 13 1 24 21 s13 1 n24	12 19 10 3 12 19 10 3 12 19 10 3	14 28 14 28 14 28	14 54 2 14 53 2 14 52 2 14 51 2	27 31 27 31 27 31 27 32	3 5 4 40 3 2 4 40 2 58 4 40 2 55 4 40 2 52 4 40 2n49 4s40

 $\label{eq:Julian Day Number = 2323953.5, Delta\ T = 42.85\ sec} \\ Ecliptic\ obliquity = 23°29'12, Nutation = -0°00'11, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 19°51'52, Lahiri = 18°58'52Greg.\ Calendar$

OCTOBER 1650 GC 00:00 UT

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Day	Sid.t	0)	ğ	φ	ð	4	ħ)∤(并	В	u	v	Ç	ķ	Day
S 1	0 39 13	7 ≙ 52'25	16 ∡ 748	21 ≏ 22	17 M 1	18 Ω 47	11 m 4	139556	14 × ⁷ 29	14 × 743	12°R 2	8 8 51	9 8 56	29619	11 m 57	S 1
S 2	0 43 10	8°51'39	1る 0	22°55	18°12	19°23	11°16	13°59	14°31	14°44	12 I I 1	8°52	9°53	2°25	12° 5	S 2
M 3	0 47 7	9°50'54	15°11	24°28	19°24	19°59	11°28	14° 1	14°33	14°45	12° 1	8°R52	9°49	2°32	12°13	M 3
T 4	0 51 3	10°50'11	29°19	25°59	20°35	20°35	11°40	14° 4	14°35	14°46	12° 0	8°51	9°46	2°39	12°21	T 4
W 5	0 55 0	11°49'30	13≈23	27°30	21°46	21°11	11°52	14° 6	14°37	14°47	12° 0	8°49	9°43	2°46	12°29	W 5
T 6	0 58 56	12°48'50	27°19	29° 1	22°56	21°48	12° 5	14° 9	14°39	14°49	11°59	8°45	9°40	2°52	12°37	T 6
F 7	1 2 53	13°48'13	11) (7	0 M .30	24° 7	22°24	12°17	14°11	14°41	14°50	11°59	8°42	9°37	2°59	12°45	F 7
S 8	1 6 49	14°47'37	24°42	1°59	25°18	22°59	12°29	14°13	14°43	14°51	11°58	8°38	9°33	3° 6	12°53	S 8
S 9	1 10 46	15°47'03	8 Y 2	3°27	26°29	23°35	12°42	14°15	14°46	14°53	11°58	8°35	9°30	3°12	13° 1	S 9
M10	1 14 42	16°46'31	21° 7	4°54	27°39	24°11	12°54	14°17	14°48	14°54	11°57	8°33	9°27	3°19	13° 9	M10
T 11	1 18 39	17°46'01	3 8 55	6°21	28°50	24°47	13° 7	14°19	14°50	14°55	11°57	8°D32	9°24	3°26	13°16	T 11
W12	1 22 36	18°45'34	16°27	7°47	0 ∡ 0	25°23	13°19	14°20	14°53	14°57	11°56	8°32	9°21	3°32	13°24	W12
T 13	1 26 32	19°45'08	28°44	9°11	1°11	25°58	13°32	14°22	14°55	14°58	11°55	8°33	9°18	3°39	13°32	T 13
F 14	1 30 29	20°44'45	10耳50	10°35	2°21	26°34	13°45	14°23	14°58	15° 0	11°55	8°34	9°14	3°46	13°39	F 14
S 15	1 34 25	21°44'24	22°46	11°59	3°32	27° 9	13°57	14°25	15° 0	15° 1	11°54	8°36	9°11	3°53	13°47	S 15
S 16	1 38 22	22°44'05	4938	13°21	4°42	27°45	14°10	14°26	15° 3	15° 3	11°53	8°37	9°8	3°59	13°54	S 16
M17	1 42 18	23°43'49	16°29	14°42	5°52	28°20	14°23	14°27	15° 5	15° 4	11°53	8°38	9° 5	4° 6	14° 2	M17
T 18	1 46 15	24°43'35	28°25	16° 2	7° 2	28°56	14°36	14°28	15° 8	15° 6	11°52	8°R38	9° 2	4°13	14° 9	T 18
W19	1 50 11	25°43'23	10 Ω 30	17°21	8°12	29°31	14°49	14°29	15°11	15° 8	11°51	8°38	8°59	4°19	14°17	W19
T 20	1 54 8	26°43'13	22°48	18°39	9°22	0 m) 6	15° 2	14°30	15°13	15° 9	11°50	8°36	8°55	4°26	14°24	T 20
F 21	1 58 5	27°43'06	5 m 25	19°56	10°32	0°41	15°15	14°31	15°16	15°11	11°50	8°35	8°52	4°33	14°31	F 21
S 22	2 2 1	28°43'00	18°22	21°11	11°42	1°16	15°28	14°31	15°19	15°13	11°49	8°34	8°49	4°39	14°38	S 22
S 23	2 5 58	29°42'57	1 ≏ 41	22°25	12°51	1°51	15°40	14°32	15°21	15°14	11°48	8°32	8°46	4°46	14°45	S 23
M24	2 9 54	0 M .42'56	15°22	23°37	14° 1	2°26	15°54	14°32	15°24	15°16	11°47	8°32	8°43	4°53	14°52	M24
T 25	2 13 51	1°42'57	29°23	24°48	15°10	3° 1	16° 7	14°32	15°27	15°18	11°46	8°31	8°39	4°59	14°59	T 25
W26	2 17 47	2°42'59	13 M .41	25°56	16°20	3°36	16°20	14°33	15°30	15°20	11°46	8°D31	8°36	5° 6	15° 6	W26
T 27	2 21 44	3°43'04	28°10	27° 2	17°29	4°10	16°33	14°R33	15°33	15°21	11°45	8°31	8°33	5°13	15°13	T 27
F 28	2 25 40	4°43'11	12 × 745	28° 5	18°38	4°45	16°46	14°33	15°36	15°23	11°44	8°32	8°30	5°20	15°20	F 28
S 29	2 29 37	5°43'19	27°19	29° 6	19°47	5°19	16°59	14°32	15°39	15°25	11°43	8°32	8°27	5°26	15°27	S 29
S 30	2 33 34	6°43'29	11 조 48	0 ∡ 7 4	20°56	5°54	17°12	14°32	15°42	15°27	11°42	8°32	8°24	5°33	15°33	S 30
M31	2 37 30	7 M 43'40	26중 7	0 ∡ 758	22 才 5	6 m 28	17 M 25	14932	15 ∡ 45	15 ₹ 29	11 II 41	8 8 32	8 8 20	5 9 40	15 m /40	M31

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S 2	3 31	27 37	4 8	9 20	0 26	18 30	1 16	16 17	1 18	14 24	0 53	22 12	0 34	22 39	0 4	21 14	1 24	12 18	10 4	14 29	14 48	27 33	2 43	4 40
M 3	3 55		-	10 1	0 33					14 28		22 11		22 39		21 14				14 29			2 40	4 40
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F 7	5 27			12 38	1 1				1 21	14 44		22 10		22 40		21 15		12 17		14 26			2 28	4 41
S 8	5 50	5 27	3 38	13 15	1 8	20 40	1 36	15 10	1 22	14 47	0 52	22 10	0 34	22 41	0 4	21 15	1 23	12 17	10 5	14 24	14 42	27 35	2 25	4 41
S 9	6 13	0n45	2 40	13 52	1 15	21 0	1 39	14 59	1 22	14 51	0 52	22 10	0 33	22 41	0 4	21 15	1 23	12 16	10 5	14 23	14 41	27 36	2 22	4 41
M10	6 36	6 48	1 34	14 28	1 22		1 42	14 47	1 23			22 10		22 41	0 4	21 15	1 23	12 16	10 5	14 23	14 40	27 36	2 19	4 41
T 11	6 59			15 3	1 28			14 36		14 59		22 10		22 41		21 15	1 23	12 16		14 22			2 16	4 41
W12 T 13	7 22			15 37		21 57		14 24				22 10		22 42		21 16				14 23			2 13	4 41
F 14				16 11 16 44	1 41	22 15 22 33	1 52 1 55			15 7 15 11	0 51 0 51			22 42 22 42		21 16 21 16		12 16 12 15		14 23 14 23			2 10 2 7	4 41
S 15				17 15		22 49		13 50		15 15				22 43		21 16	1 23			14 24			2 4	4 41
S 16	8 52	27 47	4 22	17 46	1 59	23 6	2 1	13 38	1 26	15 19	0 51	22 9	0 33	22 43	0 4	21 16	1 23	12 15	10 6	14 24	14 34	27 38	2 1	4 41
M17	9 14			18 16		23 21	-		1 27	15 22	0 51	-		22 43		21 17	-	12 15		14 24			1 58	4 41
T 18	9 36			18 45		23 36		-		15 26	0 51			22 43		21 17	1 23	12 14		14 24			1 55	4 42
W19 T 20	9 58			19 13		23 51	2 9	13 3		15 30	0 51			22 44		21 17	1 23	12 14		14 24			1 52	4 42
F 21			5 7 4 43	19 40 20 5		24 4 24 17		12 51 12 39		15 34 15 38	0 51 0 51			22 44 22 44		21 17 21 18	1 23			14 24 14 24			1 49 1 46	4 42 4 42
S 22	11 2		-	20 30		24 17	-	12 27		15 42	0 50			22 45		21 18	1 23					27 40	1 43	4 42
S 23	11 24	2 14	3 10	20 53	2 34	24 42	2 20	12 15	1 31	15 46	0 50	22 9	0 33	22 45	0 4	21 18	1 23	12 13	10 7	14 23	14 27	27 40	1 40	4 42
M24	11 45	4s 9	2 5	21 15	2 38	24 53	2 22	12 3	1 31	15 50	0 50	22 9	0 33	22 45	0 4	21 18	1 23	12 13	10 7	14 22	14 26	27 40	1 38	4 42
T 25	12 6			21 36				11 51	1 32		0 50		0 33	-		21 18	1 23	12 13		14 22			1 35	4 43
W26	-			21 56		25 13		11 39	1 32		0 50			22 46		21 19	1 22	12 13		14 22			1 32	4 43
T 27 F 28		-		22 14 22 30		25 2225 31		11 27 11 14		16 1 16 5	0 50 0 50			22 46 22 47		21 19 21 19	1 22 1 22	12 13 12 12		14 22 14 22			1 29 1 26	4 43
S 29				22 45		25 39	2 34			16 9	0 50			22 47		21 19				14 22			1 24	4 43
S 30	13 47	27 40	4 43	22 58	2 50	25 46	2 36	10 50		16 13	0 50	22 9	0 33	22 47	0 4	21 20				14 23	14 20	27 42	1 21	4 43
	-		_	23 s10		25 s52		10n38		16s16		22n 9		22 s48	-	21 s20				14n23			1n18	

Julian Day Number = 2323983.5, Delta T = 42.79 sec Ecliptic obliquity = 23°29'12, Nutation = -0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°51'56, Lahiri = 18°58'56Greg. Calendar

NOVEMBER 1650 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(并	Р	n	v	Ç	Ŗ	Day
T 1	2 41 27	8ML43'53	10≈14	1 √ 49	23 × 14	7 MD 2	17 M 39	14°R31	15 ∡ 748	15 ₹ 31	11°R40	8 8 32	8 8 17	59346	15 m)46	T 1
W 2	2 45 23	9°44'07	24° 7	2°35	24°23	7°36	17°52	14930	15°51	15°32	11 Ⅱ 39	8°32	8°14	5°53	15°53	W 2
T 3	2 49 20	10°44'23	7) €45	3°16	25°31	8°10	18° 5	14°30	15°54	15°34	11°38	8°32	8°11	6° 0	15°59	T 3
F 4	2 53 16	11°44'40	21° 8	3°51	26°40	8°44	18°18	14°29	15°57	15°36	11°37	8°33	8° 8	6° 7	16° 6	F 4
S 5	2 57 13	12°44'59	4 Υ 18	4°21	27°48	9°18	18°32	14°28	16° 1	15°38	11°36	8°33	8° 4	6°13	16°12	S 5
S 6	3 1 9	13°45'19	17°13	4°44	28°56	9°52	18°45	14°27	16° 4	15°40	11°35	8°34	8° 1	6°20	16°18	S 6
M 7	3 5 6	14°45'41	29°56	5° 0	0중 4	10°26	18°58	14°25	16° 7	15°42	11°34	8°34	7°58	6°27	16°24	M 7
T 8	3 9 3	15°46'04	12827	5°R 7	1°12	10°59	19°11	14°24	16°10	15°44	11°33	8°R34	7°55	6°33	16°30	T 8
W 9	3 12 59	16°46'29	24°46	5° 6	2°19	11°33	19°25	14°23	16°14	15°46	11°32	8°34	7°52	6°40	16°36	W 9
T 10	3 16 56	17°46'56	6 I I55	4°55	3°27	12° 6	19°38	14°21	16°17	15°48	11°31	8°33	7°49	6°47	16°42	T 10
F 11	3 20 52	18°47'24	18°56	4°34	4°34	12°40	19°51	14°20	16°20	15°50	11°30	8°32	7°45	6°53	16°48	F 11
S 12	3 24 49	19°47'55	0951	4° 3	5°41	13°13	20° 5	14°18	16°24	15°52	11°29	8°30	7°42	7° 0	16°53	S 12
S 13	3 28 45	20°48'27	12°42	3°22	6°48	13°46	20°18	14°16	16°27	15°55	11°28	8°28	7°39	7° 7	16°59	S 13
M14	3 32 42	21°49'00	24°33	2°30	7°55	14°19	20°31	14°14	16°30	15°57	11°27	8°26	7°36	7°14	17° 4	M14
T 15	3 36 38	22°49'36	6Ω 27	1°29	9° 2	14°52	20°45	14°12	16°34	15°59	11°26	8°25	7°33	7°20	17°10	T 15
W16	3 40 35	23°50'13	18°30	0°20	10° 8	15°25	20°58	14°10	16°37	16° 1	11°25	8°D24	7°30	7°27	17°15	W16
T 17	3 44 32	24°50'52	0 m 45	29M 4	11°14	15°58	21°11	14° 8	16°41	16° 3	11°24	8°24	7°26	7°34	17°20	T 17
F 18	3 48 28	25°51'32	13°16	27°44	12°20	16°31	21°25	14° 5	16°44	16° 5	11°23	8°25	7°23	7°40	17°25	F 18
S 19	3 52 25	26°52'15	26°10	26°22	13°26	17° 3	21°38	14° 3	16°47	16° 7	11°21	8°26	7°20	7°47	17°31	S 19
S 20	3 56 21	27°52'58	9 ≙ 27	25° 1	14°32	17°36	21°51	14° 0	16°51	16°10	11°20	8°28	7°17	7°54	17°35	S 20
M21	4 0 18	28°53'44	23°11	23°43	15°37	18° 8	22° 5	13°57	16°54	16°12	11°19	8°29	7°14	8° 0	17°40	M21
T 22	4 4 14	29°54'31	7 M 21	22°32	16°42	18°40	22°18	13°55	16°58	16°14	11°18	8°R30	7°10	8° 7	17°45	T 22
W23	4 8 11	0 ₹ 55'19	21°55	21°29	17°47	19°12	22°31	13°52	17° 1	16°16	11°17	8°29	7° 7	8°14	17°50	W23
T 24	4 12 7	1°56'09	6 ₮ 46	20°36	18°52	19°44	22°44	13°49	17° 5	16°18	11°16	8°27	7° 4	8°21	17°54	T 24
F 25	4 16 4	2°57'00	2 <u>1°</u> 47	19°54	19°56	20°16	22°58	13°46	17° 9	16°21	11°15	8°25	7° 1	8°27	17°59	F 25
S 26	4 20 1	3°57'52	6 る 49	19°24	21° 0	20°48	23°11	13°43	17°12	16°23	11°14	8°21	6°58	8°34	18° 3	S 26
S 27	4 23 57	4°58'45	21°43	19° 5	22° 4	21°19	23°24	13°39	17°16	16°25	11°12	8°17	6°55	8°41	18° 8	S 27
M28	4 27 54	5°59'39	6≈21	18°D57	23° 8	21°51	23°37	13°36	17°19	16°27	11°11	8°14	6°51	8°47	18°12	M28
T 29	4 31 50	7° 0'34	20°39	19° 0	24°11	22°22	23°50	13°33	17°23	16°29	11°10	8°12	6°48	8°54	18°16	T 29
W30	4 35 47	8 🗷 1'29	4) (34	19 M .12	25 궁 14	22 m 53	24M 4	139529	17 . ₹27	16 х 32	11 II 9	8°D11	6 8 45	995 1	18 m /20	W30

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W 2	14 46	18 19 5	6 23	3 28	2 48	26 3	2 41	10 14	1 37	16 24	0 50	22 9	0 33	22 48	0 4	21 20	1 22	12 11 1	0 8	14 23	14 17	27 42	1 13	4 44
T 3	15 5	12 58 4	37 23	3 33	2 45	26 7	2 43	10 1	1 37	16 28	0 49	22 9	0 33	22 49	0 4	21 21	1 22	12 11 1	0 8	14 23	14 16	27 42	1 10	4 44
F 4	15 23	7 6 3	54 23	3 37	2 42	26 11	2 44	9 49	1 38	16 31	0 49	22 10	0 32	22 49	0 4	21 21	1 22	12 11 1	0 8	14 23	14 15	27 42	1 8	4 44
S 5	15 42	1 2 2	59 23	3 38	2 37	26 14	2 46	9 37	1 38	16 35	0 49	22 10	0 32	22 49	0 4	21 21	1 22	12 11 1	0 8	14 23	14 14	27 43	1 5	4 45
S 6	16 0	5n 0 1	56 23	3 37	2 32	26 16	2 47	9 25	1 39	16 39	0 49	22 10	0 32	22 50	0 4	21 21	1 22	12 11 1	0 8	14 23	14 13	27 43	1 2	4 45
M 7	16 18	10 44 0	48 23	3 33	2 25	26 18	2 49	9 12	1 40	16 42	0 49	22 10	0 32	22 50	0 4	21 21	1 22	12 10 1	0 8	14 23	14 12	27 43	1 0	4 45
T 8	16 36	15 57 On	n21 23	3 26	2 16	26 19	2 50	9 0	1 40	16 46	0 49	22 10	0 32	22 50	0 4	21 22	1 22	12 10 1	0 8	14 23	14 11	27 43	0 57	4 45
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T 10			31 23			26 18	2 52	8 36	1 41	16 54		22 11		22 51		21 22	1 22	12 10 1		14 23		27 43	0 52	4 46
F 11			25 22		1 42		2 53	8 24		16 57		22 11		22 51		21 22	1 22			14 22		27 43	0 50	4 46
S 12	17 43	27 40 4	11 22	2 26	1 28	26 15	2 53	8 11	1 43	17 1	0 49	22 11	0 32	22 52	0 4	21 23	1 22	12 9 1	0 8	14 22	14 6	27 43	0 47	4 46
S 13	17 59	27 36 4	45 22	2 2	1 12	26 12	2 54	7 59	1 43	17 4	0 49	22 11	0 32	22 52	0 4	21 23	1 22	12 9 1	0 8	14 21	14 5	27 43	0 45	4 47
M14	18 15	26 17 5	7 21	1 35	0 54	26 9	2 54	7 47	1 44	17 8	0 49	22 12	0 32	22 52	0 4	21 23	1 22	12 9 1	0 8	14 21	14 4	27 43	0 43	4 47
T 15	18 31	23 47 5	16 21	1 4	0 35	26 5	2 55	7 35	1 45	17 12	0 49	22 12	0 32	22 53	0 4	21 23	1 22	12 9 1	0 8	14 20	14 3	27 44	0 40	4 47
W16	18 46	20 14 5	11 20	31	0 15	26 0	2 55	7 22	1 45	17 15	0 49	22 12	0 32	22 53	0 4	21 24	1 22	12 9 1	0 8	14 20	14 2	27 44	0 38	4 47
T 17	19 1	15 47 4	52 19	54	0n 5	25 55	2 55	7 10	1 46	17 19	0 49	22 13	0 32	22 53	0 4	21 24	1 22	12 9 1	0 8	14 20	14 1	27 44	0 36	4 48
F 18	19 16	10 35 4	19 19	9 17	0 26	25 49	2 55	6 58	1 47	17 22	0 48	22 13	0 32	22 54	0 4	21 24	1 22	12 8 1	0 8	14 20	14 0	27 44	0 34	4 48
S 19	19 30	4 47 3	33 18	3 38	0 46	25 42	2 55	6 46	1 47	17 26	0 48	22 13	0 32	22 54	0 4	21 24	1 22	12 8 1	0 8	14 21	13 59	27 44	0 31	4 48
S 20	19 44	1 s24 2	33 18	3 0	1 5	25 35	2 54	6 34	1 48	17 29	0 48	22 13	0 32	22 54	0 4	21 25	1 22	12 8 1	0 8	14 21	13 58	27 44	0 29	4 48
M21	19 57	7 44 1	23 17	7 23	1 24	25 27	2 54	6 22	1 48	17 33	0 48	22 14	0 32	22 55	0 4	21 25	1 22	12 8 1	0 8	14 22	13 57	27 44	0 27	4 49
T 22	20 10	13 54 0	6 16	5 50	1 40	25 18	2 53	6 10	1 49	17 36	0 48	22 14	0 32	22 55	0 4	21 25	1 22	12 8 1	0 8	14 22	13 56	27 44	0 25	4 49
W23	20 23	19 28 1	s13 16	5 19	1 55	25 9	2 52	5 58	1 50	17 40	0 48	22 15	0 31	22 55	0 4	21 25	1 22	12 8 1	0 8	14 22	13 55	27 44	0 23	4 49
T 24	20 35	23 56 2	29 15	5 53	2 7	24 59	2 51	5 46	1 50	17 43	0 48	22 15	0 31	22 56	0 4	21 26	1 22	12 8 1	0 8	14 21	13 54	27 44	0 21	4 50
F 25	20 47	26 49 3	36 15	5 32	2 18	24 49	2 50	5 34	1 51	17 46	0 48	22 15	0 31	22 56	0 4	21 26	1 22	12 7 1	0 8	14 20	13 53	27 44	0 19	4 50
S 26	20 59	27 46 4	27 15	5 16	2 26	24 38	2 49	5 22	1 52	17 50	0 48	22 16	0 31	22 57	0 4	21 26	1 22	12 7 1	0 8	14 19	13 52	27 44	0 17	4 50
S 27	21 10	26 40 5	0 15	5 5	2 32	24 26	2 48	5 10	1 52	17 53	0 48	22 16	0 31	22 57	0 4	21 26	1 22	12 7 1	0 8	14 18	13 51	27 44	0 15	4 51
M28	21 21	23 46 5	13 14	1 59	2 37	24 14	2 46	4 58	1 53	17 56	0 48	22 16	0 31	22 57	0 4	21 27	1 22	12 7 1	0 8	14 17	13 50	27 44	0 13	4 51
T 29	21 31	19 28 5	6 14	1 57	2 39	24 1	2 45	4 46	1 54	18 0	0 48	22 17	0 31	22 58	0 4	21 27	1 22	12 7 1	0 8	14 16	13 49	27 44	0 11	4 51
W30	21 s41	14 s12 4	s41 15	5s 0	2n40	23 s48	2 s43	4n35	1n54	18s 3	0n48	22n17	0s31	22 s58	0s 4	21 s27	1n22	12n 7 1	0s 8	14n16	13n48	27n44	0n 9	4 s52

Julian Day Number = 2324014.5, Delta T = 42.73 sec Ecliptic obliquity = $23^{\circ}29'12$, Nutation = $-0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}52'00$, Lahiri = $18^{\circ}59'00$ Greg. Calendar

DECEMBER 1650 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	24	ħ)∤(¥	В	n	Ω	Ç	ķ	Day
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F 2	4 43 40	10° 3'22	1Υ18	20° 5	27°19	23°55	24°30	139522	17°34	16°36	11 I 7	8°12	6°39	9°14	18°27	F 2
S 3	4 47 37	11° 4'20	14°10	20°42	28°20	24°26	24°43	13°18	17°37	16°38	11° 5	8°14	6°36	9°21	18°31	S 3
S 4	4 51 33	12° 5'18	26°47	21°27	29°22	24°57	24°56	13°14	17°41	16°41	11° 4	8°15	6°32	9°28	18°35	S 4
M 5	4 55 30	13° 6'17	9812	22°17	0≈23	25°27	25° 9	13°10	17°45	16°43	11° 3	8°R16	6°29	9°34	18°38	M 5
T 6	4 59 26	14° 7'17	21°26	23°12	1°24	25°58	25°22	13° 6	17°48	16°45	11° 2	8°15	6°26	9°41	18°42	T 6
W 7	5 3 23	15° 8'17	3 II 32	24°12	2°24	26°28	25°35	13° 2	17°52	16°47	11° 1	8°12	6°23	9°48	18°45	W 7
T 8	5 7 19	16° 9'18	15°32	25°16	3°24	26°58	25°48	12°58	17°56	16°50	11° 0	8° 7	6°20	9°55	18°48	T 8
F 9	5 11 16	17°10'20	27°27	26°23	4°24	27°28	26° 1	12°54	17°59	16°52	10°59	8° 1	6°16	10° 1	18°51	F 9
S 10	5 15 12	18°11'23	9920	27°33	5°23	27°57	26°14	12°50	18° 3	16°54	10°57	7°53	6°13	10° 8	18°54	S 10
S 11	5 19 9	19°12'27	21°11	28°46	6°21	28°27	26°27	12°46	18° 7	16°57	10°56	7°45	6°10	10°15	18°57	S 11
M12	5 23 6	20°13'31	3 N 3	0 √ 1	7°19	28°56	26°39	12°41	18°10	16°59	10°55	7°37	6° 7	10°21	18°59	M12
T 13	5 27 2	21°14'36	14°59	1°18	8°17	29°26	26°52	12°37	18°14	17° 1	10°54	7°30	6° 4	10°28	19° 2	T 13
W14	5 30 59	22°15'42	27° 0	2°37	9°14	29°55	27° 5	12°32	18°18	17° 3	10°53	7°24	6° 1	10°35	19° 4	W14
T 15	5 34 55	23°16'48	9 m 12	3°57	10°10	0 <u>₽</u> 24	27°18	12°28	18°21	17° 6	10°52	7°21	5°57	10°41	19° 7	T 15
F 16	5 38 52	24°17'56	21°39 4 Ω 24	5°19 6°41	11° 6 12° 1	0°52 1°21	27°30 27°43	12°23 12°19	18°25 18°28	17° 8 17°10	10°51 10°49	7°D20 7°20	5°54	10°48	19° 9 19°11	F 16 S 17
S 17	5 42 48	25°19'04		_									5°51	10°55	-	
S 18	5 46 45	26°20'13	17°33	8° 5	12°56	1°49	27°55	12°14	18°32	17°12	10°48	7°21	5°48	11° 2	19°13	S 18
M19	5 50 41	27°21'22	1M 9	9°30	13°50	2°18	28° 8	12° 9	18°36	17°15	10°47	7°R22	5°45	11° 8	19°15	M19
T 20	5 54 38	28°22'32	15°13	10°56	14°43	2°46	28°20	12° 5	18°39	17°17	10°46	7°22	5°42	11°15	19°17	T 20
W21 T 22	5 58 35 6 2 31	29°23'43 0 る 24'54	29°45 14 7 41	12°22 13°49	15°36 16°28	3°13 3°41	28°33 28°45	12° 0 11°55	18°43 18°46	17°19 17°21	10°45 10°44	7°20 7°16	5°38 5°35	11°22 11°28	19°18 19°20	W21 T 22
F 23	6 6 28	1°26'06	29°55	15°17	17°19	4° 8	28°57	11°50	18°50	17°24	10°43	7° 9	5°32	11°35	19°21	F 23
S 24	6 10 24	2°27'18	15 る 14	16°45	18° 9	4°35	29°10	11°45	18°54	17°26	10°42	7° 0	5°29	11°42	19°22	S 24
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T 27	6 22 14	5°30'53	0)(3	21°12	20°36	5°56	29°34 29°46	11°36	19° 1	17°30	10°40 10°39	6°36	5°19	11°55 12° 2	19°25	T 27
W28	6 26 11	6°32'05	14°10	22°42	21°23	6°22	29°58	11°26	19° 8	17°35	10°38	6°31	5°16	12° 9	19°26	W28
T 29	6 30 7	7°33'16	27°49	24°13	22° 9	6°48	0×710	11°21	19°11	17°37	10°37	6°29	5°13	12°15	19°27	T 29
F 30	6 34 4	8°34'27	11 ° 0	25°44	22°54	7°14	0°22	11°16	19°15	17°39	10°36	6°D28	5°10	12°22	19°27	F 30
S 31	6 38 0	9 ට 35'37	23 Y 48	27 ₹ 15	23≈38	7 ≙ 39	0 ∡ ³34	119911	19 ~ 18	17 √ 41	10耳35	6 8 29	5 8 7	129529	19 m 28	S 31

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S 4 M 5 T 6 W 7 T 8 F 9	22 39 22 46	14 40 On 5 19 18 1 11 23 5 2 13 25 49 3 9	16 0 2 16 19 2 16 39 2 17 1 2	2 27 22 34 2 2 22 22 17 2 2 16 22 1 2 2 10 21 44 2	31 3 37 28 3 25 25 3 14 21 3 2	1 58 1 58 1 59 2 0	18 16 18 19 18 22 18 25 18 28 18 31	0 48 0 48 0 48 0 48	22 19 22 20 22 20 22 20 22 21 22 21	0 31 0 31 0 31 0 30 0 30 0 30	23 0 23 0 23 0 23 1	0 4 0 4 0 4 0 4	21 28 1 2 21 28 1 2 21 28 1 2 21 29 1 2 21 29 1 2 21 29 1 2	2 12 1 12 1 12 1 12	6 10 8 6 10 8 6 10 8 6 10 8		13 43 13 41 13 40 13 39	27 43 27 43 27 43 27 43	0 2 0 0 0s 1 0 3 0 4 0 6	4 53 4 53 4 53 4 54 4 54 4 54
S 10 S 11 M12 T 13	22 58	27 40 4 31 26 41 4 56 24 30 5 7	17 46 1 18 9 1 18 32 1	1 57 21 8 2	14 2 40 10 2 29 6 2 18	 1 2 2 2 3 	18 34 18 37 18 40 18 43	0 48 0 48 0 48	22 2222 2222 23	0 30 0 30 0 30 0 30 0 30	23 123 223 2	0 5 0 5 0 5	21 29 1 2 21 30 1 2 21 30 1 2	1 12 1 12 1 12	6 10 8	14 10 14 7 14 5	13 37 13 36 13 35		0 7 0 9 0 10 0 11	4 55 4 55 4 56 4 56
W14 T 15 F 16 S 17	23 16 23 19 23 22 23 24	17 5 4 51 12 11 4 22 6 42 3 41	19 18 1 19 41 1	1 27 19 52 1 1 19 19 33 1 1 11 19 13 1	58 1 56 53 1 45 48 1 34	2 4 2 5 2 5	18 46 18 49 18 52 18 55	0 48 0 48 0 48	22 24	0 30 0 30 0 30 0 30	23 3 23 3 23 3	0 5 0 5 0 5	21 30 1 2 21 30 1 2 21 30 1 2 21 31 1 2 21 31 1 2	1 12 1 12 1 12	5 10 7 5 10 7 5 10 7		13 33 13 32 13 31	27 42 27 42 27 42	0 13 0 14 0 15 0 16	4 56 4 57 4 57 4 57
S 18 M19 T 20 W21 T 22 F 23 S 24	23 26 23 28 23 29 23 29 23 29 23 29 23 28	11 22 0 34 17 6 0s42 22 3 1 57 25 41 3 6 27 33 4 3	21 8 0 21 28 0 21 47 0 22 6 0 22 23 0	0 48 18 11 1 0 40 17 50 1 0 32 17 28 1	32 1 2 26 0 52 21 0 41 14 0 31 8 0 21	2 8 2 8 2 9 2 10 2 11	18 58 19 1 19 3 19 6 19 9 19 12 19 14	0 48 0 48 0 48 0 48 0 48	22 27	0 30 0 29 0 29 0 29 0 29 0 29 0 29	23 4 23 5 23 5 23 5 23 6	0 5 0 5 0 5 0 5 0 5	21 31 1 2 21 31 1 2 21 32 1 2	1 12 1 12 1 12 1 12 1 12 1 12	5 10 7 5 10 7	14 0	13 27 13 26 13 25 13 24	27 41 27 41 27 40 27 40 27 40	0 17 0 18 0 19 0 20 0 21 0 22 0 23	4 58 4 58 4 58 4 59 4 59 4 59 5 0
S 25 M26 T 27 W28 T 29 F 30	23 26 23 25 23 22 23 20 23 16 23 13 23 s 8	25 1 5 3 21 1 5 1 15 50 4 40 9 57 4 2 3 48 3 11	22 56 0 23 10 0 23 24 0 23 36 0 23 48 0 23 58 0	0 2 16 1 0 0s 5 15 39 0 0 12 15 17 0 0 19 14 55 0 0 26 14 32 0 0 33 14 10 0	54 0 1 47 0s 9 40 0 19 32 0 29 24 0 38 16 0 48	2 12 2 13	19 17 19 19 19 22 19 25 19 27 19 30	0 48 0 48 0 48 0 48 0 48 0 48	22 30 22 30 22 31 22 31 22 32 22 32 22 32	0 29 0 29 0 29 0 29 0 28 0 28	23 6 23 6 23 7 23 7 23 7	0 5 0 5 0 5 0 5 0 5 0 5	21 33 1 2 21 34 1 2 21 34 1 2	1 12 1 12 1 12 1 12 1 12 1 12 2 12	5 10 6 5 10 6 5 10 6 5 10 6 5 10 6 5 10 6	13 50 13 47 13 45	13 21 13 20 13 19 13 18 13 17 13 16	27 39 27 39 27 39 27 39 27 38 27 38	0 24 0 24 0 25 0 26 0 26 0 27 0 827	5 0 5 0 5 1 5 1 5 1 5 2 5s 2

Julian Day Number = 2324044.5, Delta T = 42.67 sec Ecliptic obliquity = $23^{\circ}29'12$, Nutation = - $0^{\circ}00'11$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}52'04$, Lahiri = $18^{\circ}59'05$ Greg. Calendar