

Astrodienst Ephemeris Tables for the year 1657

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 1657 GC 00:00 UT

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M 1	6 44 8	11 궁 10'00	189529	23 х 40	8≈ 2	27 M 4	27°R 8	5 ₾ 22	13 궁 26	0云23	16°R40	9°R 9	8 궁 59	16) €48	17 ₹ 4	M 1
T 2	6 48 4	12°11'09	2Ω 52	25° 7	9°17	27°45	27 8 4	5°23	13°30	0°25	16 Ⅲ 39	9 ろ 9	8°56	16°55	17°11	T 2
W 3	6 52 1	13°12'18	17°23	26°34	10°31	28°26	27° 1	5°24	13°33	0°28	16°38	9° 8	8°53	17° 2	17°18	W 3
T 4	6 55 57	14°13'27	1 m 56	28° 2	11°46	29° 6	26°57	5°25	13°37	0°30	16°37	9° 8	8°50	17° 8	17°24	T 4
F 5	6 59 54	15°14'35	16°27	2 <u>9</u> °31	13° 0	29°47	26°54	5°26	13°40	0°32	16°36	9° 7	8°47	17°15	17°31	F 5
S 6	7 3 50	16°15'43	0 ≏ 49	1ਰ 1	14°14	0 ≯ 27	26°51	5°27	13°44	0°34	16°35	9° 7	8°43	17°22	17°37	S 6
S 7	7 7 47	17°16'52	15° 1	2°30	15°29	1° 8	26°48	5°28	13°48	0°37	16°34	9°D 6	8°40	17°28	17°43	S 7
M 8	7 11 44	18°18'00	28°59	4° 1	16°43	1°49	26°46	5°29	13°51	0°39	16°33	9° 6	8°37	17°35	17°50	M 8
T 9	7 15 40	19°19'09	12 M .43	5°32	17°57	2°29	26°43	5°29	13°55	0°41	16°32	9° 7	8°34	17°42	17°56	T 9
W10	7 19 37	20°20'17	26°13	7° 3	19°12	3°10	26°41	5°30	13°58	0°43	16°31	9° 8	8°31	17°49	18° 2	W10
T 11	7 23 33	21°21'25	9 ~ 29	8°35	20°26	3°51	26°39	5°30	14° 2	0°45	16°30	9° 9	8°28	17°55	18° 9	T 11
F 12	7 27 30	22°22'33	22°32	10° 8	21°40	4°32	26°37	5°30	14° 5	0°47	16°29	9°10	8°24	18° 2	18°15	F 12
S 13	7 31 26	23°23'40	5 3 22	11°41	22°54	5°13	26°35	5°30	14° 9	0°50	16°28	9°R11	8°21	18° 9	18°21	S 13
S 14	7 35 23	24°24'47	18° 0	13°15	24° 8	5°53	26°34	5°R30	14°12	0°52	16°27	9°10	8°18	18°15	18°27	S 14
M15	7 39 19	25°25'53	0≈27	14°49	25°23	6°34	26°33	5°30	14°16	0°54	16°26	9° 9	8°15	18°22	18°33	M15
T 16	7 43 16	26°26'58	12°42	16°23	26°37	7°15	26°32	5°30	14°19	0°56	16°26	9° 7	8°12	18°29	18°39	T 16
W17	7 47 13	27°28'02	24°49	17°59	27°51	7°56	26°31	5°30	14°23	0°58	16°25	9° 5	8° 9	18°36	18°45	W17
T 18	7 51 9	28°29'06	6 ∺ 47	19°35	29° 5	8°37	26°31	5°29	14°26	1° 0	16°24	9° 1	8° 5	18°42	18°51	T 18
F 19	7 55 6	29°30'09	18°40	21°11	0 ₩19	9°18	26°30	5°29	14°30	1° 2	16°23	8°58	8° 2	18°49	18°57	F 19
S 20	7 59 2	0≈31'10	0 Υ 31	22°48	1°33	9°59	26°D30	5°28	14°33	1° 4	16°22	8°55	7°59	18°56	19° 3	S 20
S 21	8 2 59	1°32'11	12°24	24°26	2°46	10°40	26°30	5°28	14°37	1° 6	16°21	8°52	7°56	19° 2	19°8	S 21
M22	8 6 5 5	2°33'10	24°22	26° 4	4° 0	11°21	26°30	5°27	14°40	1° 8	16°21	8°51	7°53	19° 9	19°14	M22
T 23	8 10 52	3°34'08	6 8 30	27°43	5°14	12° 1	26°31	5°26	14°44	1°10	16°20	8°D51	7°49	19°16	19°20	T 23
W24	8 14 48	4°35'05	18°53	29°23	6°28	12°42	26°31	5°25	14°47	1°12	16°19	8°52	7°46	19°23	19°25	W24
T 25	8 18 45	5°36'01	1 Ⅱ 35	1≈ 3	7°41	13°23	26°32	5°24	14°51	1°14	16°18	8°53	7°43	19°29	19°31	T 25
F 26	8 22 42	6°36'55	14°41	2°44	8°55	14° 5	26°33	5°22	14°54	1°16	16°18	8°55	7°40	19°36	19°36	F 26
S 27	8 26 38	7°37'49	28°12	4°26	10° 9	14°46	26°35	5°21	14°57	1°18	16°17	8°56	7°37	19°43	19°42	S 27
S 28	8 30 35	8°38'41	129510	6° 8	11°22	15°27	26°36	5°20	15° 1	1°20	16°16	8°R56	7°34	19°49	19°47	S 28
M29	8 34 31	9°39'31	26°34	7°52	12°35	16° 8	26°38	5°18	15° 4	1°22	16°16	8°55	7°30	19°56	19°52	M29
T 30	8 38 28	10°40'21	11Ω18	9°36	13°49	16°49	26°40	5°16	15° 7	1°24	16°15	8°53	7°27	20° 3	19°58	T 30
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	22 50 22 43 22 37 22 30 22 22 22 14 22 5 21 56 21 47 21 27 21 17 21 27 21 17 20 54 20 42 20 42 20 30 820 5 19 51 19 38 19 24 19 9 18 54 18 39 18 24 18 8 17 52 17 36	22 50 12 32 3 1 22 43 6 52 4 1 22 37 0 52 4 5 22 30 5s 7 5 1 22 22 10 46 5 1 22 14 15 46 4 5 22 5 19 52 4 2 2 30 2 1 37 24 47 1 3 21 27 23 44 0 2 2 1 17 21 28 0n4 21 6 18 13 1 5 20 54 14 14 2 5 20 42 9 44 34 20 20 30 4 55 4 2 20 18 0n 2 4 5 5 1 19 51 9 43 14 9 5 19 24 18 5 4 3 19 9 21 20 4 18 54 23 38 3 1 18 39 24 44 2 18 24 24 27 0 5 18 8 22 38 0s1 17 52 19 20 1 3 17 36 14 44 2 4	22 50 12 32 3 17 23 37 0 22 43 6 52 4 13 23 46 0 22 37 0 52 4 53 23 54 0 22 30 5s 7 5 14 24 1 0 22 22 10 46 5 15 24 7 0 22 14 15 46 4 58 24 11 0 22 5 19 52 4 24 24 14 0 21 56 22 50 3 36 24 16 0 21 47 24 30 2 37 24 16 1 21 37 24 47 1 31 24 15 1 21 27 23 44 0 21 24 13 1 21 17 21 28 0n49 24 9 1 21 6 18 13 1 55 24 5 1 20 54 14 14 2 55 23 58 1 20 42 9 44 36 23 50 1 20 30 4 55 4 26 23 41 1 20 18 0n 2 4 55 23 30 1 20 30 4 55 4 26 23 41 1 20 18 0n 2 4 55 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39 21 17 21 28 0n49 24 9 1 20 15 2 1 38 21 6 18 13 1 55 24 5 1 25 14 36 1 37 20 54 14 14 2 55 23 58 1 30 14 10 1 36 20 32 4 55 4 26 23 41 1 39 13 17 1 34 20 18 0n 2 4 55 23 30 1 35 13 44 1 35 20 30 4 55 4 26 23 41 1 39 13 17 1 34 20 18 0n 2 4 55 23 30 1 35 13 44 1 35 20 54 58 51 1 23 18 1 47 12 22 1 32 19 38 14 9 5 3 22 49 1 53 11 26 1 29 19 24 18 5 4 39 22 33 1 56 10 58 12 7 19 9 21 20 4 1 22 15 1 58 10 29 1 26 18 54 23 38 3 11 21 55 2 0 10 0 1 24 18 39 24 44 2 9 21 34 2 2 9 31 1 22 18 8 2 2 38 0s18 20 46 2 4 8 32 1 19 17 52 19 20 1 35 20 20 2 4 8 2 1 17 36 14 44 2 48 19 53 2 5 7 32 1 15	22 50 12 32 3 17 23 37 0 11 19 16 1 42 19 31 0 21 22 43 6 52 4 13 23 46 0 18 18 56 1 42 19 40 0 20 20 22 37 0 52 4 53 23 54 0 25 18 34 1 42 19 49 0 20 22 30 5s 7 5 14 24 1 0 32 18 13 1 42 19 59 0 19 22 22 10 46 5 15 24 7 0 39 17 51 1 42 20 8 0 18 22 14 15 46 4 58 24 11 0 46 17 28 1 41 20 17 0 18 22 5 19 52 4 24 24 14 0 52 17 5 1 41 20 25 0 17 21 56 22 50 3 36 24 16 0 58 16 41 1 40 20 34 0 16 21 47 24 30 2 37 24 16 1 4 16 17 1 40 20 42 0 16 21 37 24 47 1 31 24 15 1 10 15 53 1 39 20 50 0 15 21 27 23 44 0 21 24 13 1 15 15 28 1 39 20 59 0 14 21 77 21 28 0n49 24 9 1 20 15 2 1 38 21 6 0 14 21 6 18 13 1 55 24 5 1 25 14 36 1 37 21 14 0 13 20 34 0 4 55 4 26 23 50 1 35 13 34 1 35 21 29 0 11 20 18 0n 2 4 55 23 58 1 30 14 10 1 36 21 22 0 12 20 30 4 55 4 26 23 41 1 39 13 17 1 34 21 36 0 11 20 18 0n 2 4 55 23 30 1 33 17 3 17 3 4 21 36 0 11 20 18 0n 2 4 55 23 30 1 33 17 3 1 34 21 36 0 11 20 18 0n 2 4 55 23 30 1 33 17 3 17 3 4 21 36 0 11 20 18 0n 2 4 55 23 30 1 33 17 3 1 34 21 36 0 11 20 18 0n 2 4 55 23 30 1 33 17 3 17 3 4 21 36 0 11 20 18 0n 2 4 55 23 30 1 33 17 3 17 3 4 21 36 0 11 20 18 0n 2 4 55 23 30 1 33 17 3 14 1 30 21 57 0 9 19 38 14 9 5 3 22 49 1 53 11 56 12 21 32 21 50 0 9 19 38 14 9 5 3 22 49 1 53 11 54 1 30 21 57 0 9 19 38 14 9 5 3 22 49 1 53 11 56 12 21 22 21 50 0 8 18 54 23 38 3 11 21 55 2 0 10 0 1 24 22 21 0 6 6 18 54 23 38 3 11 21 55 2 0 10 0 1 24 22 21 0 6 6 18 54 23 38 3 11 21 55 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Julian Day Number = 2326267.5, Delta T = 38.44 sec Ecliptic obliquity = $23^{\circ}29'03$, Nutation = $0^{\circ}00'18$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}57'10$, Lahiri = $19^{\circ}04'10$ Greg. Calendar

FEBRUARY 1657 GC 00:00 UT

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S 4	8 58 11	15°44'10	25°26	18°26	19°55	20°15	26°52	5° 7	15°24	1°33	16°12	8°30	7°11	20°36	20°23	S 4
M 5	9 2 7	16°44'53	9 M _30	20°14	21° 8	20°56	26°55	5° 4	15°27	1°34	16°12	8°29	7° 8	20°43	20°28	M 5
T 6	9 6 4	17°45'35	23°11	22° 3	22°21	21°37	26°58	5° 2	15°30	1°36	16°11	8°D29	7° 5	20°50	20°33	T 6
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T 8	9 13 57	19°46'55	19°31	25°42	24°47	23° 0	27° 5	4°57	15°36	1°40	16°10	8°31	6°59	21° 3	20°42	T 8
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W14	9 37 36	25°50'24	3) (21	6°45	2° 2	20° 20° 8	27°31	4°40	15°54	1°49	16° 8	8°11	6°40	21°44	21° 8	W14
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F 16	9 45 29	27°51'22	27° 8	10°23	4°27	28°31	27°41	4°34	16° 0	1°52	16° 7	7°52	6°33	21°57	21°16	F 16
S 17	9 49 26	28°51'48	8 Υ 59	12°10	5°39	29°12	27°46	4°30	16° 3	1°54	16° 7	7°42	6°30	22° 4	21°20	S 17
S 18	9 53 22	29°52'12	20°52	13°56	6°51	29°53	27°52	4°27	16° 6	1°55	16° 7	7°34	6°27	22°11	21°24	S 18
M19	9 53 22	0)(52'34	2 8 49	15°39	8° 3	29 33 0 건 35	27°57	4°24	16° 9	1°56	16° 7	7°27	6°24	22°17	21°28	M19
T 20	10 1 15	1°52'55	14°55	17°19	9°15	1°16	28° 3	4°20	16°11	1°58	16° 7	7°24	6°20	22°24	21°32	T 20
W21	10 113	2°53'13	27°14	18°57	10°27	1°58	28° 9	4°16	16°14	1°59	16° 6	7°22	6°17	22°31	21°35	W21
T 22	10 9 9	3°53'30	9 Ⅱ 50	20°30	11°38	2°39	28°15	4°13	16°17	2° 0	16° 6	7°D22	6°14	22°37	21°39	T 22
F 23	10 13 5	4°53'44	22°48	22° 0	12°50	3°21	28°21	4° 9	16°19	2° 2	16° 6	7°23	6°11	22°44	21°42	F 23
S 24	10 17 2	5°53'56	69512	23°24	14° 1	4° 2	28°28	4° 5	16°22	2° 3	16° 6	7°R23	6° 8	22°51	21°46	S 24
S 25	10 20 58	6°54'07	20° 4	24°43	15°13	4°44	28°34	4° 1	16°25	2° 4	16° 6	7°23	6° 5	22°58	21°49	S 25
M26	10 20 38	7°54'15	$4\Omega_{26}$	24 43 25°56	16°24	5°25	28°41	3°57	16°27	2° 5	16° 6	7°20	6° 1	22 38 23° 4	21°52	M26
T 27	10 24 33	8°54'21	19°14	23° 30° 2	10°24	6° 7	28°48	3°53	16°27	2° 6	16° 6	7°14	5°58	23°11	21°55	T 27
W28	10 20 31	9) 54'25	4 m 23	28) 1	18 Y 46	6 පි 48	28 8 55	3 ≏ 49	16 る 32	2 ප් 8	16°D 6	7 ろ 7	5 공 55	23) 18	21 × 58	W28

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S 3	16 27	9 7 5 11	17 47 2 0	5 29 1 6 23	6 0	18 49 0 41	0 16 2 31	22 59 0 23	22 24 1 5	14 21 8 27	23 12 2	3 17 0	46 18	8 5 1
S 4 M 5		18 54 4 27	17 12 1 58 16 35 1 55 15 57 1 52		14 0 3	18 51 0 41	0 18 2 32	22 58 0 23	22 24 1 5	14 22 8 27	23 13 2 23 13 2 23 13 2	3 17 0	48 18 51 18 54 18	8 5 1 7 5 2 7 5 2
T 6 W 7 T 8	15 14	24 9 2 45 24 45 1 41	15 17 1 48 14 36 1 43	3 25 0 56 23 2 54 0 53 23	20 0 5 24 0 6	5 18 53 0 40 5 18 54 0 40	0 21 2 32 0 22 2 33	22 58 0 23 22 57 0 23	22 24 1 5 22 24 1 5	14 22 8 27 14 22 8 26	23 13 2 23 13 2	3 18 0 3 18 1	57 18 0 18	7 5 3 7 5 3 7 5 3
F 9 S 10	14 35 14 16	22 6 0n34		1 51 0 48 23	29 0	7 18 55 0 40 7 18 56 0 39	0 24 2 33	22 57 0 23	22 24 1 5	14 22 8 26	23 13 2	3 18 1	6 18	6 5 4 6 5 5
S 11 M12 T 13			12 24 1 26 11 38 1 19 10 50 1 12	1 19 0 45 23 0 48 0 42 23 0 16 0 39 23	34 0 9	18 59 0 39	0 27 2 34	22 56 0 23	22 24 1 5 22 23 1 5 22 23 1 5	14 23 8 26	23 13 2 23 13 2 23 13 2	3 19 1	8 18 11 18 14 18	6 5 5 6 5 6 5 5 6
W14 T 15 F 16	12 56 12 35 12 14	6 23 4 12 1 29 4 43 3n27 5 1	10 2 1 3 9 12 0 54 8 23 0 45	0n15	40 0 12	19 2 0 38	0 31 2 34	22 55 0 24	22 23 1 5 22 23 1 5 22 23 1 5	14 23 8 25	23 14 2 23 14 2 23 15 2	3 19 1	17 18 20 18 23 18	5 5 7 5 5 7 4 5 8
S 17	11 53	8 15 5 6	7 32 0 34	1 50 0 27 23	43 0 14	19 5 0 38	0 34 2 35	22 54 0 24	22 23 1 5	14 24 8 24	23 16 2	3 19 1	25 18	4 5 9
S 18 M19 T 20	11 32 11 11 10 49		5 51 0 12	2 22 0 24 23 2 53 0 20 23 3 25 0 17 23	44 0 13		0 37 2 35	22 54 0 24	22 23 1 5	14 24 8 24	23 16 2 23 16 2 23 17 2	3 20 1	28 18 31 18 34 18	4 5 9 3 5 10 3 5 10
W21 T 22		22 47 3 18 24 18 2 22	4 11 0 13 3 22 0 26	3 56 0 14 23 4 27 0 10 23		7 19 11 0 37 3 19 13 0 37			22 23 1 5 22 23 1 5		23 17 2 23 17 2		37 18 40 18	3 5 11 2 5 11
F 23 S 24		24 34 1 17 23 27 0 6	2 34 0 40 1 48 0 54	4 58 0 7 23 5 30 0 3 23		19 14 0 36 19 16 0 36					23 17 2 23 17 2		43 18 45 18	2 5 12 2 5 13
S 25 M26 T 27	8 37	20 52 1s 7 16 56 2 19 11 51 3 24	0 22 1 22	6 31 0 4 23	45 0 22	19 18 0 36 2 19 19 0 36 3 19 21 0 36	0 49 2 36	22 52 0 24	22 23 1 5	14 26 8 22	23 17 2 23 17 2 23 17 2	3 21 1	48 18 51 18 54 18	1 5 13 1 5 14 0 5 15
W28	8 13 7 s52	5n57 4s15		7 n33 0n11 23		19 21 0 36 19 19 19 0 35			-		23 s18 2		54 18 n57 18s	

 $\label{eq:Julian Day Number = 2326298.5, Delta T = 38.39 sec} \\ Ecliptic obliquity = 23°29'03, Nutation = 0°00'19, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°57'14, Lahiri = 19°04'14Greg. Calendar$

MARCH 1657 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	♂ ¹) i	Ł)∤(),(Р	n	Ω	(K	Day
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T 1	10 36 44	10) 54'27	19 m /41	28 米 52	19 Y 57	7 궁 30	298 2	3°R45	16 ප 35	2 る 9	16 I I 6	6°R57	5 ろ 52	23) 24	22 🖍 1	T 1
F 2	10 40 41	11°54'28	4 Ω 59	29°35	21° 8	8°12	29° 9	3 ≏ 41	16°37	2°10	16° 6	6 ප 47	5°49	23°31	22° 4	F 2
S 3	10 44 38	12°54'26	20° 5	0 Υ 10	22°19	8°53	29°17	3°37	16°39	2°11	16° 6	6°38	5°46	23°38	22° 7	S 3
S 4	10 48 34	13°54'23	4ML49	0°36	23°29	9°35	29°24	3°33	16°42	2°12	16° 6	6°31	5°42	23°45	22°10	S 4
M 5	10 52 31	14°54'18	19° 7	0°53	24°40	10°16	29°32	3°29	16°44	2°13	16° 6	6°26	5°39	23°51	22°12	M 5
T 6	10 56 27	15°54'12	2 √ 57	1°R 1	25°50	10°58	29°40	3°24	16°46	2°14	16° 6	6°23	5°36	23°58	22°15	T 6
W 7	11 0 24	16°54'04	16°18	1° 1	27° 1	11°40	29°48	3°20	16°48	2°15	16° 6	6°D22	5°33	24° 5	22°17	W 7
T 8	11 4 20	17°53'54	29°16	0°51	28°11	12°21	29°56	3°15	16°51	2°16	16° 7	6°23	5°30	24°11	22°20	T 8
F 9	11 8 17	18°53'43	11 る 53	0°34	29°21	13° 3	OII 5	3°11	16°53	2°16	16° 7	6°R23	5°26	24°18	22°22	F 9
S 10	11 12 13	19°53'30	24°14	0° 9	0 8 31	13°45	0°13	3° 6	16°55	2°17	16° 7	6°21	5°23	24°25	22°24	S 10
S 11	11 16 10	20°53'15	6≈23	29 \ 37	1°40	14°26	0°22	3° 2	16°57	2°18	16° 7	6°18	5°20	24°32	22°26	S 11
M12	11 20 7	21°52'58	18°24	28°58	2°50	15° 8	0°30	2°57	16°59	2°19	16° 8	6°11	5°17	24°38	22°28	M12
T 13	11 24 3	22°52'40	0 ∺ 20	28°15	4° 0	15°50	0°39	2°53	17° 1	2°20	16° 8	6° 1	5°14	24°45	22°30	T 13
W14	11 28 0	23°52'19	12°13	27°27	5° 9	16°32	0°48	2°48	17° 3	2°20	16° 8	5°49	5°11	24°52	22°32	W14
T 15	11 31 56	24°51'56	24° 5	26°35	6°18	17°13	0°57	2°44	17° 4	2°21	16° 8	5°35	5° 7	24°59	22°33	T 15
F 16	11 35 53	25°51'32	5 ℃ 57	25°42	7°27	17°55	1° 6	2°39	17° 6	2°22	16° 9	5°21	5° 4	25° 5	22°35	F 16
S 17	11 39 49	26°51'05	17°51	24°48	8°36	18°37	1°16	2°34	17° 8	2°22	16° 9	5° 7	5° 1	25°12	22°36	S 17
S 18	11 43 46	27°50'36	29°47	23°54	9°45	19°19	1°25	2°30	17°10	2°23	16°10	4°54	4°58	25°19	22°38	S 18
M19	11 47 42	28°50'05	11849	23° 1	10°53	20° 0	1°35	2°25	17°11	2°23	16°10	4°44	4°55	25°25	22°39	M19
T 20	11 51 39	29°49'32	23°58	22°11	12° 2	20°42	1°45	2°20	17°13	2°24	16°10	4°37	4°52	25°32	22°40	T 20
W21	11 55 36	0 Υ48'57	6 Ⅱ 18	21°24	13°10	21°24	1°54	2°16	17°15	2°24	16°11	4°33	4°48	25°39	22°41	W21
T 22	11 59 32	1°48'19	18°52	20°40	14°18	22° 6	2° 4	2°11	17°16	2°25	16°11	4°32	4°45	25°46	22°42	T 22
F 23	12 3 29	2°47'39	19546	20° 2	15°26	22°47	2°14	2° 6	17°18	2°25	16°12	4°31	4°42	25°52	22°43	F 23
S 24	12 7 25	3°46'57	15° 2	19°28	16°34	23°29	2°24	2° 2	17°19	2°25	16°12	4°31	4°39	25°59	22°44	S 24
S 25	12 11 22	4°46'12	28°44	19° 0	17°42	24°11	2°35	1°57	17°21	2°26	16°13	4°30	4°36	26° 6	22°45	S 25
M26	12 15 18	5°45'25	12 Ω 55	18°37	18°49	24°53	2°45	1°52	17°22	2°26	16°13	4°27	4°32	26°12	22°46	M26
T 27	12 19 15	6°44'35	27°33	18°20	19°56	25°34	2°55	1°48	17°23	2°26	16°14	4°21	4°29	26°19	22°46	T 27
W28	12 23 11	7°43'44	12 m)34	18° 8	21° 3	26°16	3° 6	1°43	17°24	2°27	16°15	4°12	4°26	26°26	22°47	W28
T 29	12 27 8	8°42'50	27°50	18° 2	22°10	26°58	3°17	1°38	17°26	2°27	16°15	4° 2	4°23	26°33	22°47	T 29
F 30	12 31 4	9°41'53	13 ♀ 10	18°D 2	23°16	27°40	3°27	1°34	17°27	2°27	16°16	3°51	4°20	26°39	22°47	F 30
S 31	12 35 1	10 Y 40'55	28 ≏ 23	18 ∺ 7	24823	28 궁 21	3Ⅲ38	1 ≏ 29	17 る 28	2 る 27	16 Ⅱ 16	3 る 40	4 궁 17	26) (46	22 ×7 47	S 31

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T 1 F 2	7 s29	0s21 4s49 6 37 5 3	1n27 2n 1 57 2		23 s41 0 s25 23 40 0 26				22 s23 1n 5 22 23 1 5		23 s18 23 s21 23 19 23 21	2n 0 17s59 2 2 17 59	
S 3		12 24 4 55						22 50 0 24			23 19 23 22	2 5 17 58	
S 4 M 5	-	17 20 4 27 21 7 3 43		43 9 33 0 26 55 10 2 0 30		19 30 0 34 19 32 0 34		22 50 0 24 22 50 0 24	22 23 1 5 22 23 1 5		23 19 23 22 23 20 23 22	2 8 17 58 2 11 17 57	
T 6	5 34	23 32 2 48	3 14 3	5 10 32 0 34	23 32 0 30	19 34 0 34	1 3 2 38	22 50 0 24	22 23 1 5	14 27 8 21	23 20 23 22	2 14 17 57	5 19
W 7 T 8	4 48	24 31 1 45 24 7 0 38	3 26 3 2	22 11 30 0 42		19 38 0 34	1 7 2 38	22 49 0 24	22 22 1 5	14 28 8 20	23 20 23 22 23 20 23 22	2 16 17 56 2 19 17 56	5 20
F 9 S 10		22 28 0n29 19 47 1 33		28 11 58 0 46 32 12 27 0 50		19 40 0 33 19 42 0 33			22 22 1 5 22 22 1 5		23 20 23 22 23 20 23 22	2 22 17 55 2 25 17 55	
S 11 M12	3 37 3 14	16 16 2 32 12 7 3 23		35 12 55 0 54 36 13 23 0 57		19 44 0 33 19 46 0 33	1 13 2 38 1 15 2 38		22 22 1 6 22 22 1 6		23 20 23 23 23 20 23 23	2 28 17 54 2 31 17 54	
T 13 W14	2 50 2 26	7 34 4 4 2 45 4 35	2 35 3 3	35 13 50 1 1	23 10 0 38 23 6 0 39	19 48 0 33	1 16 2 38 1 18 2 38	22 48 0 24	22 22 1 6	14 29 8 19	23 21 23 23 23 21 23 23	2 33 17 53 2 36 17 53	5 24
T 15 F 16	2 3 1 39	2n 8 4 54 6 57 5 0	1 49 3 2		23 2 0 40		1 20 2 39 1 22 2 39	22 47 0 24	22 22 1 6	14 30 8 18	23 22 23 23 23 23 23 23	2 39 17 52 2 42 17 52	5 25
S 17		11 31 4 52		12 15 37 1 17					22 22 1 6		23 23 23 23 23	2 42 17 52 2 45 17 51	
S 18 M19		15 40 4 32 19 13 4 0	0 21 3 0s10 2 5		22 49 0 44 22 44 0 45	19 58 0 32 20 0 0 32	1 26 2 39 1 28 2 39		22 22 1 6 22 22 1 6		23 24 23 23 23 24 23 24	2 47 17 50 2 50 17 50	
T 20 W21	-	21 58 3 17 23 45 2 23	0 41 2 3	38 16 53 1 29	22 38 0 46			22 47 0 24		14 31 8 17	23 24 23 24 23 24 23 24	2 53 17 49 2 56 17 49	5 28
T 22	0 43	24 22 1 22	1 43 2	10 17 42 1 37	22 28 0 48	20 6 0 31	1 34 2 39	22 46 0 24	22 22 1 6	14 32 8 17	23 24 23 24	2 59 17 48	5 30
F 23 S 24		23 43 0 15 21 43 0 s55		55 18 6 1 41 39 18 30 1 45	22 22 0 49 22 16 0 51	20 9 0 31 20 11 0 31	1 36 2 39 1 37 2 39		22 22 1 6 22 22 1 6		23 24 23 24 23 24 23 24	3 1 17 47 3 4 17 47	
S 25 M26	1 54 2 17	18 26 2 4 13 58 3 8	3 5 1 2 3 28 1			20 13 0 30 20 15 0 30	1 39 2 39 1 41 2 39		22 22 1 6 22 22 1 6		23 24 23 24 23 25 23 24	3 7 17 46 3 10 17 45	
T 27	2 41	8 34 4 1	3 49 0 5	52 19 37 1 56	21 57 0 54	20 17 0 30	1 43 2 39	22 45 0 25	22 22 1 6	14 33 8 16	23 25 23 24	3 12 17 45	5 33
W28 T 29	3 4 3 28	2 33 4 39 3 s42 4 58	4 24 0 2	22 20 20 2 4	21 44 0 57	20 20 0 30 20 22 0 30		22 45 0 25	22 22 1 6	14 33 8 15	23 25 23 25 23 25 23 25	3 15 17 44 3 18 17 43	5 34
F 30 S 31	3 51 4n14	9 45 4 56 15 s10 4 s33				20 24 0 30 20n26 0 s29			22 22 1 6 22 s22 1n 6		23 26 23 25 23 s26 23 s25	3 21 17 43 3n24 17 s42	

Julian Day Number = 2326326.5, Delta T = 38.33 sec Ecliptic obliquity = 23°29'03, Nutation = $0^{\circ}00'18$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}57'18$, Lahiri = $19^{\circ}04'18$ Greg. Calendar

APRIL 1657 GC 00:00 UT

AI IX	LL 103/	uc													00.0	0.
Day	Sid.t	0	D	ğ	Ş	ð	4	ħ)∤(¥	В	V	v	Ç	Ŗ	Day
S 1	12 38 58	11 Y 39'55	13 M .17	18) 18	25 8 29	29 궁 3	3 Ⅱ 49	1°R24	17 云 29	2 る 27	16 Ⅱ 17	3°R31	4 云 13	26 米 53	22°R47	S 1
M 2	12 42 54	12°38'53	27°46	18°34	26°35	29°45	4° 0	1 ≏ 20	17°30	2°27	16°18	3 云 25	4°10	27° 0	22 ~ 47	M 2
T 3	12 46 51	13°37'50	11 × 746	18°54	27°40	0≈27	4°11	1°15	17°31	2°27	16°19	3°21	4° 7	27° 6	22°47	T 3
W 4	12 50 47	14°36'45	25°16	19°19	28°46	1° 8	4°22	1°11	17°32	2°R27	16°19	3°20	4° 4	27°13	22°47	W 4
T 5	12 54 44	15°35'37	8 궁 19	19°49	29°51	1°50	4°34	1° 6	17°33	2°27	16°20	3°D20	4° 1	27°20	22°47	T 5
F 6	12 58 40	16°34'29	20°58	20°22	0耳56	2°32	4°45	1° 2	17°33	2°27	16°21	3°R20	3°57	27°26	22°46	F 6
S 7	13 2 37	17°33'18	3≈18	21° 0	2° 1	3°14	4°56	0°57	17°34	2°27	16°22	3°19	3°54	27°33	22°46	S 7
S 8	13 6 33	18°32'06	15°25	21°42	3° 5	3°55	5° 8	0°53	17°35	2°27	16°22	3°16	3°51	27°40	22°45	S 8
M 9	13 10 30	19°30'51	27°22	22°27	4° 9	4°37	5°20	0°49	17°36	2°27	16°23	3°10	3°48	27°47	22°45	M 9
T 10	13 14 27	20°29'35	9) 14	23°16	5°13	5°19	5°31	0°44	17°36	2°27	16°24	3° 2	3°45	27°53	22°44	T 10
W11	13 18 23	21°28'17	21° 5	24° 8	6°17	6° 1	5°43	0°40	17°37	2°26	16°25	2°51	3°42	28° 0	22°43	W11
T 12	13 22 20	22°26'58	2 Ƴ 57	25° 3	7°20	6°42	5°55	0°36	17°37	2°26	16°26	2°39	3°38	28° 7	22°42	T 12
F 13	13 26 16	23°25'36	14°51	26° 1	8°24	7°24	6° 7	0°32	17°38	2°26	16°27	2°26	3°35	28°13	22°41	F 13
S 14	13 30 13	24°24'13	26°50	27° 2	9°26	8° 6	6°19	0°28	17°38	2°25	16°28	2°13	3°32	28°20	22°40	S 14
S 15	13 34 9	25°22'47	8 8 54	28° 6	10°29	8°47	6°31	0°24	17°38	2°25	16°29	2° 2	3°29	28°27	22°39	S 15
M16	13 38 6	26°21'20	21° 5	29°12	11°31	9°29	6°43	0°20	17°39	2°25	16°30	1°53	3°26	28°34	22°37	M16
T 17	13 42 2	27°19'51	3 Ⅱ 24	0 Υ 21	12°33	10°11	6°55	0°16	17°39	2°24	16°31	1°47	3°23	28°40	22°36	T 17
W18	13 45 59	28°18'20	15°53	1°33	13°34	10°52	7° 7	0°12	17°39	2°24	16°32	1°43	3°19	28°47	22°34	W18
T 19	13 49 56	29°16'46	28°35	2°46	14°36	11°34	7°20	0° 8	17°39	2°23	16°33	1°D42	3°16	28°54	22°33	T 19
F 20	13 53 52	0815'11	119533	4° 2	15°36	12°15	7°32	0° 4	17°39	2°23	16°34	1°42	3°13	29° 1	22°31	F 20
S 21	13 57 49	1°13'33	24°48	5°20	16°37	12°57	7°44	0° 1	17°R39	2°22	16°35	1°R43	3°10	29° 7	22°29	S 21
S 22	14 1 45	2°11'53	8 Ω 25	6°41	17°37	13°38	7°57	29 m 57	17°39	2°22	16°36	1°43	3° 7	29°14	22°27	S 22
M23	14 5 42	3°10'11	22°26	8° 3	18°37	14°20	8° 9	29°54	17°39	2°21	16°37	1°41	3° 3	29°21	22°26	M23
T 24	14 9 38	4° 8'27	6 m /48	9°28	19°36	15° 1	8°22	29°50	17°39	2°20	16°38	1°37	3° 0	29°27	22°24	T 24
W25	14 13 35	5° 6'41	21°32	10°54	20°35	15°43	8°35	29°47	17°39	2°20	16°39	1°31	2°57	29°34	22°22	W25
T 26	14 17 31	6° 4'53	6 ₽ 30	12°23	21°33	16°24	8°47	29°43	17°39	2°19	16°40	1°24	2°54	29°41	22°19	T 26
F 27	14 21 28	7° 3'03	21°34	13°53	22°31	17° 6	9° 0	29°40	17°39	2°18	16°41	1°16	2°51	29°48	22°17	F 27
S 28	14 25 25	8° 1'11	6 M .36	15°25	23°28	17°47	9°13	29°37	17°38	2°18	16°42	1° 8	2°48	29°54	22°15	S 28
S 29	14 29 21	8°59'17	21°25	17° 0	24°25	18°28	9°26	29°34	1 <u>7</u> °38	<u>2°</u> 17	16°43	<u>1°</u> 1	<u>2°44</u>	0 Υ 1	22°12	S 29
M30	14 33 18	9 8 57'22	5 ₹ 53	18 Y 36	25 Ⅱ 22	19≈10	9∏39	29 m 31	17 云 38	2 ਰ 16	16∏44	0 궁 57	2 ਰ 41	0Υ 8	22 × 10	M30

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S	1 4n37	19s32	3 s52	4 s 5 8	0s21	21n21	2n15	21 s22	1s (20n28	0 s29	1n52	2n39	22 s45	0 s25	22 s22	1n 6	14n34	8s15	23 s26	23 s25	3n26	17s41	5n36
M	2 5 0	22 33	2 56	5 4	0 34	21 40	2 18	21 15	1 2	20 31	0 29	1 54	2 39	22 45	0 25	22 22	1 6	14 35	8 15	23 26	23 25	3 29	17 41	5 37
T	5 23	24 5	1 51	5 7	0 47	21 59	2 22	21 7	1 3	20 33	0 29	1 56	2 39	22 45	0 25	22 22	1 6	14 35	8 14	23 26	23 25	3 32	17 40	5 38
W	4 5 46	24 6	0 43	5 9	0 59	22 17	2 25	20 59	1 4	20 35	0 29	1 58	2 39	22 45	0 25	22 21	1 6	14 35	8 14	23 27	23 25	3 35	17 39	5 38
T	5 6 9	22 47	0n26	5 8	1 11	22 35	2 29	20 51	1 5	20 37	0 29	1 59	2 39	22 44	0 25	22 21	1 6	14 35	8 14	23 27	23 25	3 37	17 39	5 39
F	6 6 32	20 20	1 32	5 4	1 21	22 52	2 32	20 43	1 7	20 40	0 29	2 1	2 39	22 44	0 25	22 21	1 6	14 36	8 14	23 27	23 25	3 40	17 38	5 40
S	7 6 54	17 0	2 32	4 59	1 32	23 9	2 36	20 34	1 8	20 42	0 28	2 3	2 39	22 44	0 25	22 21	1 6	14 36	8 14	23 27	23 26	3 43	17 37	5 40
S	8 7 17	13 1	3 23	4 51	1 41	23 25	2 39	20 26	1 9	20 44	0 28	2 4	2 39	22 44	0 25	22 21	1 6	14 36	8 13	23 27	23 26	3 46	17 37	5 41
M	9 7 39	8 34	4 5	4 41	1 50	23 40	2 42	20 17	1 11	20 46	0 28	2 6	2 39	22 44	0 25	22 21	1 6	14 37	8 13	23 27	23 26	3 48	17 36	5 42
T 1	0 8 1	3 51	4 36	4 29	1 58	23 55	2 45	20 8	1 12	20 48	0 28	2 8	2 39	22 44	0 25	22 21	1 6	14 37	8 13	23 27	23 26	3 51	17 35	5 42
W1	1 8 23	0n59	4 55	4 16	2 6	24 10	2 48	19 59	1 13	20 51	0 28	2 9	2 39	22 44	0 25	22 21	1 6	14 37	8 13	23 27	23 26	3 54	17 35	5 43
T 1	2 8 45	5 46	5 1	4 0	2 13	24 23	2 51	19 50	1 15	20 53	0 28	2 11	2 39	22 44	0 25	22 21	1 6	14 37	8 13	23 27	23 26	3 57	17 34	5 43
F 1	3 9 7	10 23	4 54	3 43	2 19	24 37	2 54	19 41	1 16	20 55	0 27	2 13	2 38	22 44	0 25	22 21	1 6	14 38	8 12	23 28	23 26	3 59	17 33	5 44
S 1	4 9 29	14 37	4 34	3 23	2 25	24 49	2 57	19 31	1 17	20 57	0 27	2 14	2 38	22 44	0 25	22 21	1 6	14 38	8 12	23 28	23 26	4 2	17 33	5 45
S 1	5 9 50	18 18	4 2	3 3	2 30	25 1	3 0	19 22	1 19	20 59	0 27	2 16	2 38	22 44	0 25	22 21	1 6	14 38	8 12	23 28	23 26	4 5	17 32	5 45
M1	6 10 11	21 15	3 18	2 40	2 34	25 13	3 2	19 12	1 20	21 2	0 27	2 17	2 38	22 44	0 25	22 21	1 7	14 38	8 12	23 28	23 26	4 8	17 31	5 46
T 1	7 10 33	23 14	2 25	2 16	2 38	25 24	3 5	19 2	1 21	21 4	0 27	2 19	2 38	22 44	0 25	22 21	1 7	14 39	8 12	23 28	23 26	4 10	17 31	5 47
W1	8 10 54	24 7	1 23	1 51	2 41	25 34	3 7	18 52	1 23	21 6	0 27	2 20	2 38	22 44	0 25	22 21	1 7	14 39	8 11	23 28	23 27	4 13	17 30	5 47
T 1	9 11 14	23 45	0 17	1 24	2 44	25 44	3 10	18 42	1 24	21 8	0 27	2 22	2 38	22 44	0 25	22 21	1 7	14 39	8 11	23 28	23 27	4 16	17 29	5 48
F 2	0 11 35	22 7	0 s 5 2	0 56	2 46	25 53	3 12	18 31	1 25	21 10	0 26	2 23	2 38	22 44	0 25	22 21	1 7	14 40	8 11	23 28	23 27	4 19	17 28	5 48
S 2	1 11 55	19 14	2 0	0 26	2 47	26 2	3 14	18 21	1 27	21 13	0 26	2 24	2 38	22 44	0 25	22 21	1 7	14 40	8 11	23 28	23 27	4 21	17 28	5 49
S 2	2 12 16	15 15	3 3	0n 5	2 48	26 10	3 16	18 10	1 28	21 15	0 26	2 26	2 37	22 44	0 25	22 21	1 7	14 40	8 11	23 28	23 27	4 24	17 27	5 50
M2	3 12 36	10 20	3 57	0 37	2 48	26 17	3 18	17 59	1 30	21 17	0 26	2 27	2 37	22 44	0 25	22 21	1 7	14 40	8 11	23 28	23 27	4 27	17 26	5 50
T 2	4 12 55	4 44	4 37	1 11	2 48	26 24	3 20	17 49	1 31	21 19	0 26	2 28	2 37	22 44	0 25	22 21	1 7	14 41	8 10	23 28	23 27	4 30	17 26	5 51
W2	5 13 15	1 s14	5 1	1 46	2 47	26 30	3 22	17 38	1 32	21 21	0 26	2 29	2 37	22 44	0 25	22 21	1 7	14 41	8 10	23 29	23 27	4 32	17 25	5 51
T 2	6 13 34	7 14	5 4	2 22	2 45	26 36	3 23	17 26	1 34	21 23	0 26	2 31	2 37	22 44	0 25	22 21	1 7	14 41			23 27	4 35	17 24	5 52
F 2	7 13 54	12 51	4 46	2 59	2 43	26 41	3 25	17 15	1 35	21 25	0 25	2 32	2 37	22 44	0 25	22 21	1 7	14 41	8 10	23 29	23 27	4 38	17 24	5 53
S 2	8 14 12	17 40	4 9	3 37	2 41	26 45	3 26	17 4	1 37	21 27	0 25	2 33	2 37	22 44	0 25	22 21	1 7	14 42	8 10	23 29	23 27	4 40	17 23	5 53
S 2	9 14 31	21 18	3 16	4 16	2 38	26 49	3 28	16 52	1 38	21 29	0 25	2 34	2 37	22 44	0 25	22 21	1 7	14 42	8 10	23 29	23 27	4 43	17 22	5 54
M3	0 14n50	23 s28	2 s 1 0	4n56	2 s34	26n53	3n29	16 s41	1 s40	21n31	0 s25	2n35	2n36	22 s45	0 s 2 6	22 s21	1n 7	14n42	8s 9	23 s29	23 s27	4n46	17 s22	5n54

Julian Day Number = 2326357.5, Delta T = 38.27 sec Ecliptic obliquity = $23^{\circ}29'03$, Nutation = $0^{\circ}00'17$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}57'22$, Lahiri = $19^{\circ}04'23$ Greg. Calendar

MAY 1657 GC 00:00 UT

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Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	Р	r	S	Ç	ę,	Day
T 1	14 37 14	10855'25	19 ∡ 756	20 Υ 14	26Ⅱ18	19≈51	9П52	29°R28	17°R37	2°R15	16∏46	0°R54	2 る 38	0 Υ 14	22°R 7	T 1
W 2	14 41 11	11°53'27	3 ਰ 31	21°55	27°13	20°32	10° 5	29 m 25	17 云 37	2 ਰ 14	16°47	0°D54	2°35	0°21	22 × 5	W 2
T 3	14 45 7	12°51'28	16°39	23°37	28° 8	21°14	10°18	29°22	17°36	2°13	16°48	0 궁 54	2°32	0°28	22° 2	T 3
F 4	14 49 4	13°49'27	29°23	25°21	29° 2	21°55	10°31	29°20	17°36	2°13	16°49	0°56	2°29	0°35	21°59	F 4
S 5	14 53 0	14°47'24	11≈48	27° 7	29°56	22°36	10°44	29°17	17°35	2°12	16°50	0°R57	2°25	0°41	21°57	S 5
S 6	14 56 57	15°45'21	23°57	28°55	0949	23°17	10°57	29°15	17°34	2°11	16°52	0°56	2°22	0°48	21°54	S 6
M 7	15 0 54	16°43'16	5 ₩ 55	0 8 45	1°42	23°58	11°10	29°12	17°33	2°10	16°53	0°54	2°19	0°55	21°51	M 7
T 8	15 4 50	17°41'09	17°48	2°37	2°34	24°39	11°24	29°10	17°33	2° 9	16°54	0°50	2°16	1° 2	21°48	T 8
W 9	15 8 47	18°39'02	29°39	4°30	3°25	25°20	11°37	29° 8	17°32	2° 8	16°55	0°45	2°13	1°8	21°45	W 9
T 10	15 12 43	19°36'53	11 Y 33	6°26	4°15	26° 1	11°50	29° 5	17°31	2° 6	16°57	0°38	2° 9	1°15	21°42	T 10
F 11	15 16 40	20°34'43	23°31	8°24	5° 5	26°42	12° 4	29° 3	17°30	2° 5	16°58	0°31	2° 6	1°22	21°38	F 11
S 12	15 20 36	21°32'31	5 8 36	10°23	5°54	27°23	12°17	29° 1	17°29	2° 4	16°59	0°23	2° 3	1°28	21°35	S 12
S 13	15 24 33	22°30'18	17°51	12°24	6°43	28° 4	12°30	29° 0	17°28	2° 3	17° 0	0°17	2° 0	1°35	21°32	S 13
M14	15 28 29	23°28'04	0 Ⅱ 15	14°27	7°30	28°44	12°44	28°58	17°27	2° 2	17° 2	0°12	1°57	1°42	21°28	M14
T 15	15 32 26	24°25'49	12°49	16°32	8°17	29°25	12°57	28°56	17°26	2° 1	17° 3	0° 9	1°54	1°49	21°25	T 15
W16	15 36 23	25°23'32	25°36	18°38	9° 3	0 米 6	13°11	28°55	17°25	2° 0	17° 4	0°D 8	1°50	1°55	21°22	W16
T 17	15 40 19	26°21'14	8934	20°46	9°48	0°46	13°24	28°53	17°24	1°58	17° 6	0° 8	1°47	2° 2	21°18	T 17
F 18	15 44 16	27°18'54	21°46	22°55	10°32	1°27	13°38	28°52	17°22	1°57	17° 7	0° 9	1°44	2° 9	21°15	F 18
S 19	15 48 12	28°16'32	5 Ω 13	25° 5	11°15	2° 7	13°51	28°50	17°21	1°56	17° 8	0°11	1°41	2°16	21°11	S 19
S 20	15 52 9	29°14'09	18°55	27°15	11°57	2°47	14° 5	28°49	17°20	1°55	17°10	0°12	1°38	2°22	21° 7	S 20
M21	15 56 5	0 Ⅱ 11'45	2 m 52	29°27	12°38	3°28	14°19	28°48	17°18	1°53	17°11	0°R12	1°35	2°29	21° 4	M21
T 22	16 0 2	1° 9'19	17° 5	1П39	13°18	4° 8	14°32	28°47	17°17	1°52	17°12	0°11	1°31	2°36	21° 0	T 22
W23	16 3 58	2° 6'51	1 ≏ 31	3°51	13°56	4°48	14°46	28°46	17°16	1°51	17°14	0° 9	1°28	2°42	20°56	W23
T 24	16 7 55	3° 4'23	16° 6	6° 2	14°34	5°28	15° 0	28°45	17°14	1°49	17°15	0° 6	1°25	2°49	20°52	T 24
F 25	16 11 52	4° 1'52	0 M .46	8°14	15°10	6° 8	15°13	28°45	17°13	1°48	17°17	0° 2	1°22	2°56	20°48	F 25
S 26	16 15 48	4°59'21	15°23	10°24	15°46	6°48	15°27	28°44	17°11	1°47	17°18	29 × 759	1°19	3° 3	20°45	S 26
S 27	16 19 45	5°56'48	29°51	12°34	16°19	7°28	15°41	28°44	17° 9	1°45	17°19	29°56	1°15	3° 9	20°41	S 27
M28	16 23 41	6°54'15	14 ∡ 4	14°42	16°52	8° 7	15°55	28°43	17° 8	1°44	17°21	29°54	1°12	3°16	20°37	M28
T 29	16 27 38	7°51'40	27°57	16°49	17°23	8°47	16° 8	28°43	17° 6	1°42	17°22	29°D54	1° 9	3°23	20°33	T 29
W30	16 31 34	8°49'05	11 る 28	18°54	17°52	9°26	16°22	28°43	17° 4	1°41	17°23	29°54	1° 6	3°29	20°29	W30
T 31	16 35 31	9 Ⅱ 46'29	24 궁 36	20∏58	18920	10 米 6	16耳36	28°D43	17 る 3	1 궁 39	17 Ⅲ 25	29 × 755	1る 3	3 Y 36	20 ∡ 25	T 31

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T 1 W 2	15n 8 15 26		s59 5n37 n14 6 19			16 s29 16 17		21n34 21 36	0 s25 0 25	2n36 2 37		22 s45 22 45		22 s21 22 21	1n 7	14n42 8s 14 43 8	-	29 23 s27 29 23 28		17 s21 17 20	5n55 5 55
T 3 F 4 S 5	-	17 55 2	24 7 1 28 7 45 22 8 29	2 14 2	26 59 3 31 27 0 3 32 27 1 3 32		1 45	21 38 21 40 21 42	0 25 0 25 0 24	2 38 2 39 2 40	2 36	22 45 22 45 22 45	0 26	22 21 22 21 22 21	1 7 1 7 1 7	14 43 8	9 23 2	29 23 28 29 23 28 29 23 28	4 57	17 19 17 19 17 18	5 56 5 56 5 57
S 6 M 7	16 35 16 52	9 41 4 5 1 4	7 9 13 40 9 59	2 1 2 1 54 2	27 1 3 32 27 0 3 32	15 29 15 17	1 48 1 50	21 44 21 46	0 24 0 24	2 41 2 41	2 35 2 35	22 45 22 45	0 26 0 26	22 21 22 21	1 7 1 7	14 44 8 14 44 8	9 23 2	29 23 28 29 23 28	5 2 5 5	17 17 17 17	5 57 5 58
T 8 W 9 T 10 F 11	17 8 17 24 17 40 17 56	4n35 5 9 13 5	1 10 45 9 11 31 3 12 17 44 13 4	1 38 2 1 29 2		14 52 14 40	1 53 1 54	21 47 21 49 21 51 21 53	0 24 0 24 0 24 0 24	2 42 2 43 2 44 2 44	2 35 2 35	22 45 22 46 22 46 22 46	0 26 0 26	22 21 22 21 22 21 22 21	1 7 1 7 1 7 1 7	14 44 8	8 23 2 8 23 2	29 23 28 29 23 28 29 23 28 29 23 28	5 13	17 16 17 15 17 15 17 14	5 58 5 59 5 59 6 0
S 12 S 13	18 11	17 23 4	13 13 50 29 14 37	1 11 2	26 50 3 29 26 47 3 28	14 15	1 57	21 55 21 57	0 24 0 23	2 45 2 45 2 45	2 34	22 46 22 46 22 46	0 26	22 21 22 21 22 21	1 7 1 7	14 45 8	8 23 2	29 23 28 29 23 28 29 23 28	5 18	17 13 17 13	6 0
M14 T 15 W16 T 17 F 18 S 19	18 55 19 9	23 55 1 23 49 0 22 26 0s 19 49 1	35 15 23 33 16 9 25 16 54 846 17 39 55 18 23 0 19 5	0 41 2 0 31 2 0 20 2 0 10 2	26 43 3 27 26 38 3 25 26 34 3 24 26 28 3 22 26 23 3 20 26 17 3 17	13 36 13 23 13 10	2 2 2 4 2 5 2 7	22 2 22 4 22 6	0 23 0 23 0 23 0 23 0 23 0 23	2 46 2 46 2 47 2 47 2 48 2 48	2 34 2 33 2 33 2 33		0 26 0 26 0 26 0 26	22 21 22 21 22 21 22 21 22 21 22 21	1 7 1 7 1 7 1 7 1 7	14 46 8 14 46 8 14 46 8 14 46 8 14 47 8	7 23 2 7 23 2 7 23 2 7 23 2	29 23 28 29 23 28 29 23 28 29 23 28 29 23 28 29 23 28	5 26 5 29 5 32	17 12 17 12 17 11 17 10 17 10	6 1 6 2 6 2 6 2 6 3 6 3
S 20 M21 T 22 W23 T 24 F 25	20 1 20 14 20 26 20 37 20 49 21 0	11 27 3 6 8 4 0 26 5 5 s23 5 10 58 5 15 58 4	55 19 46 38 20 25 5 21 3 13 21 39 1 22 12 29 22 43 40 23 12	0 11 2 0 22 2 0 32 2 0 42 2 0 52 2 1 1 2	26 10 3 14 26 4 3 12 25 57 3 8 25 49 3 5 25 41 3 1 25 33 2 57	12 31 12 18 12 4 11 51	2 10 2 11 2 13 2 14 2 16 2 18		0 23 0 23 0 22 0 22 0 22 0 22 0 22	2 48 2 48 2 49 2 49 2 49 2 49 2 49 2 49	2 33 2 32 2 32 2 32 2 32 2 31	22 47 22 48 22 48 22 48 22 48 22 48 22 48 22 49	0 26 0 26 0 26 0 26 0 26 0 26	22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21	1 7 1 7 1 7 1 7 1 7 1 7	14 47 8 14 47 8 14 47 8 14 48 8 14 48 8 14 48 8	7 23 2 7 23 2 7 23 2 7 23 2 7 23 2 6 23 2	29 23 28 29 23 28 29 23 29 29 23 29 29 23 29 29 23 29 29 23 29 29 23 29 29 23 29	5 40 5 42 5 45 5 48 5 50 5 53 5 56	17 8 17 8 17 7 17 7 17 6 17 5	6 4 6 4 6 4 6 5 6 5 6 5 6 6
M28 T 29 W30	21 30 21 40 21 49	23 57 1 23 39 0 21 56 1m	38 23 38 26 24 1 11 24 22 1 3 24 40 112 24n55	1 26 2 1 33 2 1 39 2	25 7 2 44 24 58 2 39 24 49 2 33		2 222 242 25	22 21 22 22 22 24 22 26 22n27	0 22 0 22 0 22 0 22 0 s22	2 49 2 49 2 49 2 49 2n48	2 31 2 31 2 30		0 26 0 26 0 26	22 21 22 21 22 21 22 21 22 21 22 s21	1 7 1 7 1 7 1 7 1n 7	14 49 8 14 49 8 14 49 8	6 23 2 6 23 2 6 23 2	29 23 29 29 23 29 29 23 29 29 23 29 29 23 829	5 58 6 1 6 4 6 6 6n 9	17 4 17 3 17 3	6 6 6 6 6 6 6 7 6n 7

Julian Day Number = 2326387.5, Delta T = 38.22 sec Ecliptic obliquity = 23°29'02, Nutation = $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}57'26$, Lahiri = $19^{\circ}04'27$ Greg. Calendar

JUNE 1657 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	n	Ω	Ç	, k	Day
F 1	16 39 27	10 Ⅱ 43'52	7≈23	23 I 0	189647	10)(45	16耳50	28 m 43	17°R 1	1°R38	17 II 26	29 × 757	1る 0	3 Υ43	20°R21	F 1
S 2	16 43 24	11°41'15	19°50	24°59	19°11	11°25	17° 3	28°43	16 පි 59	1 궁 36	17°28	29°58	0°56	3°50	20 ∡ 17	S 2
S 3	16 47 21	12°38'36	2 ∺ 2	26°56	19°35	12° 4	17°17	28°43	16°57	1°35	17°29	29°59	0°53	3°56	20°13	S 3
M 4	16 51 17	13°35'58	14° 3	28°51	19°56	12°43	17°31	28°43	16°55	1°33	17°30	29°R59	0°50	4° 3	20° 9	M 4
T 5	16 55 14	14°33'18	25°58	09544	20°16	13°22	17°45	28°44	16°54	1°32	17°32	29°59	0°47	4°10	20° 5	T 5
W 6	16 59 10	15°30'38	7 Υ 51	2°34	20°33	14° 1	17°59	28°44	16°52	1°30	17°33	29°58	0°44	4°17	20° 0	W 6
T 7	17 3 7	16°27'58	19°46	4°22	20°49	14°39	18°12	28°45	16°50	1°29	17°35	29°56	0°41	4°23	19°56	T 7
F 8	17 7 3	17°25'17	1848	6° 7	21° 3	15°18	18°26	28°46	16°48	1°27	17°36	29°55	0°37	4°30	19°52	F 8
S 9	17 11 0	18°22'36	14° 0	7°50	21°15	15°56	18°40	28°47	16°46	1°26	17°38	29°53	0°34	4°37	19°48	S 9
S 10	17 14 56	19°19'55	26°23	9°31	21°24	16°35	18°54	28°47	16°44	1°24	17°39	29°51	0°31	4°43	19°44	S 10
M11	17 18 53	20°17'13	9 I 1	11° 9	21°32	17°13	19° 8	28°49	16°42	1°23	17°40	29°50	0°28	4°50	19°40	M11
T 12	17 22 50	21°14'30	21°54	12°44	21°37	17°51	19°22	28°50	16°40	1°21	17°42	29°50	0°25	4°57	19°36	T 12
W13	17 26 46	22°11'47	599 1	14°17	21°41	18°29	19°35	28°51	16°37	1°19	17°43	29°D50	0°21	5° 4	19°32	W13
T 14	17 30 43	23° 9'04	18°23	15°47	21°R41	19° 7	19°49	28°52	16°35	1°18	17°45	29°50	0°18	5°10	19°28	T 14
F 15	17 34 39	24° 6'19	1 Ω 58	17°15	21°40	19°44	20° 3	28°54	16°33	1°16	17°46	29°51	0°15	5°17	19°24	F 15
S 16	17 38 36	25° 3'34	15°46	18°40	21°36	20°22	20°17	28°55	16°31	1°15	17°47	29°51	0°12	5°24	19°19	S 16
S 17	17 42 32	26° 0'49	29°43	20° 3	21°30	20°59	20°30	28°57	16°29	1°13	17°49	29°52	0° 9	5°31	19°15	S 17
M18	17 46 29	26°58'02	13 M 49	21°22	21°21	21°36	20°44	28°59	16°27	1°11	17°50	29°52	0° 6	5°37	19°11	M18
T 19	17 50 25	27°55'15	28° 1	22°39	21°10	22°13	20°58	29° 0	16°24	1°10	17°52	29°R52	0° 2	5°44	19° 7	T 19
W20	17 54 22	28°52'28	12 ≏ 17	23°54	20°57	22°50	21°12	29° 2	16°22	1° 8	17°53	29°52	29 × 759	5°51	19° 3	W20
T 21	17 58 19	29°49'40	26°33	25° 5	20°41	23°27	21°25	29° 4	16°20	1° 6	17°54	29°D52	29°56	5°57	18°59	T 21
F 22	18 2 15	09546'51	10 M .48	26°14	20°22	24° 3	21°39	29° 6	16°17	1° 5	17°56	29°52	29°53	6° 4	18°55	F 22
S 23	18 6 12	1°44'02	24°58	27°19	20° 2	24°40	21°53	29° 9	16°15	1° 3	17°57	29°52	29°50	6°11	18°51	S 23
S 24	18 10 8	2°41'12	8 才 58	28°22	19°39	25°16	22° 7	29°11	16°13	1° 2	17°59	29°52	29°47	6°18	18°47	S 24
M25	18 14 5	3°38'23	22°47	29°21	19°14	25°52	22°20	29°13	16°11	1° 0	18° 0	29°52	29°43	6°24	18°44	M25
T 26	18 18 1	4°35'33	6 ප 21	0 Ω 17	18°47	26°28	22°34	29°16	16° 8	0°58	18° 1	29°R52	29°40	6°31	18°40	T 26
W27	18 21 58	5°32'43	19°38	1°10	18°19	27° 3	22°47	29°18	16° 6	0°57	18° 3	29°52	29°37	6°38	18°36	W27
T 28	18 25 55	6°29'53	2≈37	1°59	17°48	27°38	23° 1	29°21	16° 3	0°55	18° 4	29°51	29°34	6°44	18°32	T 28
F 29	18 29 51	7°27'03	15°19	2°45	17°16	28°14	23°15	29°24	1 <u>6</u> ° 1	<u>0°54</u>	18° 5	29°51	29°31	6°51	18°28	F 29
S 30	18 33 48	8924'14	27 ≈ 45	3 Ω 27	169642	28 米 49	23 II 28	29 m 27	15 る 59	0 궁 52	18 I 7	29 × 750	29 × 27	6 Ƴ 58	18 ₹ 25	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 S 2	22n 6			25n 7		24n30	2n21	9 s 5 0		22n28		2n48		22 s50		22 s21		14n49			23 s29		17s 2	
5 2	22 14	11 4	4 2	25 17	1 34	24 20	2 15	9 37	2 30	22 30	0 21	2 48	2 30	22 50	0 26	22 21	1 /	14 50	8 6	23 29	23 29	6 14	1/ 1	6 7
S 3	22 21	6 25		25 24			2 8	9 23		22 31	0 21	2 48		22 51		22 21		14 50		23 29		6 17		6 8
M 4	22 28			25 29	2 0		2 1	9 10		22 33	0 21	2 47	2 29	-		22 21	1 7			23 29		6 20		6 8
W 6	22 35 22 42	3n13 7 54		25 31 25 31	2 2 2 2 3	23 49 23 39	1 53 1 45	8 56 8 42		22 34 22 35	0 21 0 21	2 47 2 47		22 51 22 51		22 21 22 21	1 7			23 29 23 29		6 22	17 0 16 59	6 8
T 7	22 48			25 29		23 28	1 37	8 29		22 37	0 21	2 46		22 52		22 21	1 7			23 29			16 59	6 9
F 8	22 53	-		25 24		23 17	1 28	8 15		22 38	0 21	2 46		22 52		22 21		14 51		23 29			16 58	6 9
S 9		19 41		25 18		23 6	1 19	8 2		22 39	0 21	2 45		22 52		22 21		14 51		23 29			16 58	6 9
S 10	23 3	22 13	2 55	25 9	2 1	22 56	1 10	7 48	2 43	22 41	0 21	2 44	2 28	22 52	0 27	22 21	1 7	14 51	8 5	23 29	23 29	6 35	16 57	6 9
M11	23 8	23 42	1 53	24 59	1 59	22 45	1 0	7 35	2 45	22 42	0 20	2 44	2 28	22 53	0 27	22 21	1 7	14 51	8 5	23 29	23 29	6 38	16 57	6 9
T 12	23 12	23 58	0 44	24 47	1 55	22 34	0 50	7 21	2 46	22 43	0 20	2 43	2 27	22 53	0 27	22 21	1 7	14 51	8 5	23 29	23 29	6 40	16 56	6 9
W13	-	22 55		24 34	1 52		0 39	7 8		22 44	0 20	2 43		22 53		22 21	1 7	-		23 29	-	-	16 56	6 9
T 14		20 33		-		22 12	0 28	6 55		22 45	0 20	2 42		22 53		22 21	1 7			23 29			16 55	6 10
F 15	23 21		2 49	_	1 42		0 17	6 41		22 47	0 20	2 41		22 54		22 21	1 7			23 29			16 55	6 10
S 16	23 23	12 31	3 48	23 46	1 36	21 50	0 5	6 28	2 53	22 48	0 20	2 40	2 26	22 54	0 27	22 21	1 7	14 52	8 5	23 29	23 29	6 51	16 55	6 10
S 17	23 25	7 19	4 34	23 28	1 30	21 39	0s 7	6 15	2 54	22 49	0 20	2 39	2 26	22 54	0 27	22 21	1 7	14 52	8 5	23 29	23 29	6 54	16 54	6 10
M18	23 27	1 41		23 8		21 28	0 19	6 1		22 50	0 20	2 38		22 55		22 21	1 7	14 52		23 29		6 56	16 54	6 10
T 19	23 28			22 48		21 17	0 32	5 48		22 51	0 20	2 37		22 55		22 21	1 7			23 29			16 54	6 10
W20	23 29			22 28			0 45	5 35		22 52	0 20	2 37		22 55		22 21	1 7			23 29			16 53	6 10
T 21	23 29		4 43			20 56	0 58	5 22		22 53	0 20	2 35		22 56		22 21	1 7			23 29			16 53	6 10
F 22	23 29			21 44		20 45	1 12	5 9		22 54	0 19	2 34		22 56		22 21	1 7			23 29			16 53	6 10
S 23	23 28	21 59	3 2	21 22	0 38	20 35	1 25	4 56	3 4	22 55	0 19	2 33	2 25	22 56	0 27	22 22	1 7	14 53	8 5	23 29	23 29	7 9	16 52	6 10
S 24		23 42		20 59		20 24	1 39	4 43	3 5		0 19	2 32	2 25	22 56		22 22	1 7	14 53		23 29		7 12	16 52	6 10
M25		23 56		20 36		20 14	1 54	4 30	3 7	22 56	0 19	2 31	2 24			22 22	1 7			23 29			16 52	6 10
T 26	-	22 44		20 13			2 8	4 17			0 19	2 30		22 57		22 22	1 7			23 29			16 51	6 10
W27		20 16		19 50			2 22	4 5		22 58	0 19	2 29		22 57		22 22	1 7			23 29			16 51	6 10
T 28				19 27			2 36	3 52		22 59	0 19	2 27		22 58		22 22	1 7			23 29			16 51	6 10
F 29	23 16		3 46				2 50	3 40	3 13		0 19	2 26		22 58		22 22	1 7			23 29			16 51	6 10
S 30	23n13	8s 5	4n28	18n41	0 s45	19n23	3s 4	3 s27	3 s 1 5	23n 1	0s19	2n25	2n23	22 s58	0s27	22 s22	1n 7	14n54	8s 5	23 s29	23 s29	7n27	16s50	6n10

 $\label{eq:Julian Day Number = 2326418.5, Delta T = 38.16 sec} \\ Ecliptic obliquity = 23°29'02, Nutation = 0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°57'31, Lahiri = 19°04'31Greg. Calendar$

JULY 1657 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ) f(¥	Р	ß	Ω	Ç	к 0	Day
S 1	18 37 44	99521'24	9) 57	4 N 6	16°R 8	29 米 23	23耳42	29 m /30	15°R56	0°R50	18 I 8	29°R48	29 × 24	7 ℃ 5	18°R21	S 1
M 2	18 41 41	10°18'35	21°59	4°40	15932	29°58	23°55	29°33	15 る 54	0 궁 49	18° 9	29 х 48	29°21	7°11	18 × 17	M 2
T 3	18 45 37	11°15'46	3 ℃ 55	5°10	14°55	0 Υ 32	24° 9	29°36	15°52	0°47	18°11	29°47	29°18	7°18	18°14	T 3
W 4	18 49 34	12°12'57	15°48	5°36	14°18	1° 6	24°22	29°39	15°49	0°46	18°12	29°D47	29°15	7°25	18°10	W 4
T 5	18 53 30	13°10'09	27°44	5°58	13°41	1°40	24°35	29°42	15°47	0°44	18°13	29°47	29°12	7°32	18° 7	T 5
F 6	18 57 27	14° 7'22	9 8 47	6°15	13° 3	2°13	24°49	29°46	15°44	0°42	18°15	29°48	29° 8	7°38	18° 3	F 6
S 7	19 1 24	15° 4'35	22° 1	6°28	12°26	2°47	25° 2	29°49	15°42	0°41	18°16	29°49	29° 5	7°45	18° 0	S 7
S 8	19 5 20	16° 1'48	4 Ⅲ 31	6°36	11°49	3°20	25°15	29°53	15°39	0°39	18°17	29°51	29° 2	7°52	17°57	S 8
M 9	19 9 17	16°59'02	17°19	6°R39	11°13	3°52	25°29	29°56	15°37	0°38	18°18	29°52	28°59	7°58	17°53	M 9
T 10	19 13 13	17°56'17	09526	6°38	10°38	4°25	25°42	0 亚 0	15°35	0°36	18°20	29°R52	28°56	8° 5	17°50	T 10
W11	19 17 10	18°53'32	13°53	6°31	10° 3	4°57	25°55	0° 4	15°32	0°35	18°21	29°52	28°53	8°12	17°47	W11
T 12	19 21 6	19°50'47	27°40	6°20	9°30	5°29	26° 8	0° 8	15°30	0°33	18°22	29°50	28°49	8°19	17°44	T 12
F 13	19 25 3	20°48'03	11 Ω 42	6° 4	8°58	6° 0	26°22	0°12	15°27	0°32	18°23	29°48	28°46	8°25	17°41	F 13
S 14	19 28 59	21°45'19	25°57	5°44	8°28	6°31	26°35	0°16	15°25	0°30	18°25	29°45	28°43	8°32	17°38	S 14
S 15	19 32 56	22°42'35	10 m)19	5°19	8° 0	7° 2	26°48	0°20	15°23	0°29	18°26	29°42	28°40	8°39	17°35	S 15
M16	19 36 53	23°39'52	24°43	4°50	7°34	7°33	27° 1	0°24	15°20	0°27	18°27	29°39	28°37	8°46	17°32	M16
T 17	19 40 49	24°37'09	9 ≙ 4	4°17	7° 9	8° 3	27°14	0°28	15°18	0°26	18°28	29°38	28°33	8°52	17°29	T 17
W18	19 44 46	25°34'26	23°20	3°41	6°47	8°33	27°27	0°33	15°15	0°24	18°29	29°D37	28°30	8°59	17°26	W18
T 19	19 48 42	26°31'43	7 ™ 28	3° 2	6°27	9° 2	27°39	0°37	15°13	0°23	18°30	29°37	28°27	9° 6	17°24	T 19
F 20	19 52 39	27°29'01	21°25	2°21	6° 9	9°31	27°52	0°42	15°11	0°22	18°32	29°38	28°24	9°12	17°21	F 20
S 21	19 56 35	28°26'20	5 √ 11	1°38	5°54	10° 0	28° 5	0°46	15° 8	0°20	18°33	29°40	28°21	9°19	17°19	S 21
S 22	20 0 32	29°23'39	18°46	0°55	5°41	10°29	28°18	0°51	15° 6	0°19	18°34	29°41	28°18	9°26	17°16	S 22
M23	20 4 28	$0\Omega 20'58$	2 る 9	0°11	5°30	10°57	28°30	0°56	15° 4	0°17	18°35	29°R41	28°14	9°33	17°14	M23
T 24	20 8 25	1°18'18	15°19	295528	5°22	11°24	28°43	1° 1	15° 2	0°16	18°36	29°40	28°11	9°39	17°11	T 24
W25	20 12 22	2°15'39	28°17	28°47	5°16	11°52	28°56	1° 5	14°59	0°15	18°37	29°38	28° 8	9°46	17° 9	W25
T 26	20 16 18	3°13'00	11≈ 1	28° 8	5°12	12°18	29° 8	1°10	14°57	0°13	18°38	29°34	28° 5	9°53	17° 7	T 26
F 27	20 20 15	4°10'23	23°33	27°32	5°D11	12°45	29°20	1°15	14°55	0°12	18°39	29°28	28° 2	9°59	17° 5	F 27
S 28	20 24 11	5° 7'46	5 ¥ 52	27° 0	5°12	13°11	29°33	1°21	14°53	0°11	18°40	29°22	27°58	10° 6	17° 3	S 28
S 29	20 28 8	6° 5'10	18° 1	26°32	5°16	13°36	29°45	1°26	14°50	0°10	18°41	29°16	27°55	10°13	17° 1	S 29
M30	20 32 4	7° 2'36	0 Υ 1	26° 9	5°22	14° 1	29°57	1°31	14°48	0° 8	18°42	29°11	27°52	10°20	16°59	M30
T 31	20 36 1	8 0 0'02	11 Y 55	25951	5929	14 Y 26	09910	1 ≏ 36	14 궁 46	0중 7	18 Ⅱ 43	29 ∡ 6	27 ∡ 749	10 Y 26	16 才 57	T 31

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T 3 W 4 T 5		10 54 5 4	17 36 1 2 17 16 1 4 16 57 1 5	41 18 46 3 58	2 50 3 19 2 38 3 21 2 26 3 23	23 3 0 18	2 21 2 23 2 19 2 22 2 18 2 22	22 59 0 27	22 22 1 7 22 22 1 7 22 22 1 7	14 54 8 5	23 29 23 29 23 29 23 29 23 29 23 29	7 35 1 7 37 1 7 40 1	6 50 6 9
F 6 S 7	22 44	18 36 4 3		11 18 29 4 23	2 14 3 24 2 2 3 26	23 5 0 18	2 16 2 22 2 14 2 22	23 0 0 27	22 22 1 7	14 54 8 5	23 29 23 29 23 29 23 29 23 29 23 29	7 42 1 7 45 1	6 49 6 9
S 8 M 9 T 10	22 31 22 24 22 17	24 1 1 9	15 50 2 5	54 18 5 4 56		23 6 0 18	2 13 2 22 2 11 2 21 2 10 2 21	23 1 0 27		14 54 8 6	23 29 23 29 23 29 23 29 23 29 23 29	7 48 1 7 50 1 7 53 1	6 49 6 8
W11 T 12	22 9 22 1	21 29 1 17 18 16 2 27	15 24 3 2 15 14 3 3	23 17 51 5 16 36 17 45 5 24	1 16 3 32 1 5 3 33	23 7 0 18 23 8 0 18	2 8 2 21 2 6 2 21	23 1 0 27 23 2 0 27	22 22 1 7 22 22 1 7	14 54 8 6 14 55 8 6	23 29 23 29 23 29 23 29	7 55 1 7 58 1	6 49 6 8 6 49 6 8
S 14	21 52 21 43	8 48 4 21	14 58 4	1 17 34 5 40	0 54 3 35 0 43 3 36	23 9 0 18	2 4 2 21 2 3 2 20	23 2 0 27	22 22 1 7 22 22 1 7	14 55 8 6	23 29 23 29 23 29 23 29	8 3 1	6 48 6 8 6 48 6 8
S 15 M16 T 17	21 34 21 24 21 14	3 9 4 56 2s41 5 13 8 20 5 10		23 17 24 5 52	0 32 3 38 0 21 3 39 0 11 3 41		2 1 2 20 1 59 2 20 1 57 2 20	23 3 0 27		14 55 8 6	23 29 23 29 23 29 23 29 23 29 23 29		16 48 6 7 16 48 6 7 16 48 6 7
W18 T 19 F 20	21 4 20 53 20 42			46 17 14 6 6	0n10 3 44	23 10 0 17 23 10 0 17 23 11 0 17	1 55 2 20 1 53 2 20 1 51 2 19	23 4 0 27	22 22 1 7 22 22 1 7 22 22 1 7	14 55 8 6	23 29 23 29 23 29 23 28 23 29 23 28	8 13 1 8 15 1 8 18 1	6 48 6 6
S 21 S 22	20 31 20 19	23 20 2 10		54 17 9 6 12	0 30 3 47	23 11 0 17 23 11 0 17	1 49 2 19 1 47 2 19	23 4 0 27	22 22 1 7	14 55 8 6	23 29 23 28 23 29 23 28	8 20 1 8 23 1	6 48 6 6
M23 T 24	20 7 19 54	23 15 0n13 21 12 1 24	15 20 4 5 15 31 4 5	56 17 7 6 16 54 17 6 6 17	0 49 3 49 0 59 3 51	23 12 0 17 23 12 0 17	1 45 2 19 1 43 2 19	23 5 0 27 23 5 0 27	22 22 1 7 22 22 1 7	14 55 8 6 14 55 8 6	23 29 23 28 23 29 23 28	8 25 1 8 28 1	6 48 6 5 6 49 6 5
W25 T 26 F 27	19 42 19 28 19 15	14 11 3 26	15 43 4 5 15 56 4 4 16 10 4 3	14 17 6 6 17	1 17 3 54	23 12 0 17 23 12 0 17 23 12 0 17	1 41 2 18 1 39 2 18 1 37 2 18	23 5 0 27	22 22 1 7 22 22 1 7 22 22 1 7	14 55 8 7	23 29 23 28 23 29 23 28 23 29 23 28	8 30 1 8 33 1 8 35 1	6 49 6 4
S 28 S 29	19 1 18 47	4 58 4 45	16 24 4 2 16 40 4 1	28 17 7 6 16	1 35 3 56	23 12 0 17 23 12 0 17	1 34 2 18 1 32 2 18	23 6 0 27	22 22 1 7 22 23 1 6	14 55 8 7	23 29 23 28 23 29 23 28	8 38 1 8 40 1	6 49 6 4
M30 T 31	18 33 18n18					23 13 0 16 23n13 0 s16			22 23 1 6 22 s23 1n 6		23 29 23 28 23 s29 23 s28	8 43 1 8n45 1	

Julian Day Number = 2326448.5, Delta T = 38.10 sec Ecliptic obliquity = $23^{\circ}29'01$, Nutation = $0^{\circ}00'18$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}57'35$, Lahiri = $19^{\circ}04'35$ Greg. Calendar

AUGUST 1657 GC 00:00 UT

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Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)મ(并	В	n	v	Ç	ķ	Day
W 1	20 39 57	8 Ω 57'30	23 Y 47	25°R40	5939	14 Y 50	0922	1 ≏ 42	14°R44	0°R 6	18 I I44	29°R 3	27 ∡ 746	10 Y 33	16°R56	W 1
T 2	20 43 54	9°55'00	5 8 42	25°D34	5°52	15°14	0°34	1°47	14 る 42	0중 5	18°45	29°D 2	27°43	10°40	16 ₹ 54	T 2
F 3	20 47 51	10°52'30	17°43	25935	6° 6	15°37	0°46	1°52	14°40	0° 4	18°46	29 × 2	27°39	10°46	16°53	F 3
S 4	20 51 47	11°50'02	29°56	25°43	6°22	15°59	0°58	1°58	14°38	0° 3	18°47	29° 3	27°36	10°53	16°51	S 4
S 5	20 55 44	12°47'36	12 II 26	25°58	6°40	16°21	1°10	2° 4	14°36	0° 2	18°48	29° 4	27°33	11° 0	16°50	S 5
M 6	20 59 40	13°45'10	25°17	26°20	7° 0	16°43	1°22	2° 9	14°34	0° 0	18°49	29°R 5	27°30	11° 7	16°48	M 6
T 7	21 3 37	14°42'47	8932	26°49	7°22	17° 4	1°33	2°15	14°32	29 × 759	18°50	29° 5	27°27	11°13	16°47	T 7
W 8	21 7 33	15°40'24	22°13	27°25	7°45	17°24	1°45	2°21	14°30	29°58	18°51	29° 3	27°24	11°20	16°46	W 8
T 9	21 11 30	16°38'03	6 Ω 17	28° 7	8°10	17°44	1°56	2°27	14°28	29°57	18°51	28°59	27°20	11°27	16°45	T 9
F 10	21 15 26	17°35'44	20°43	28°57	8°37	18° 3	2° 8	2°32	14°26	29°56	18°52	28°52	27°17	11°34	16°44	F 10
S 11	21 19 23	18°33'25	5 m 25	29°53	9° 5	18°22	2°19	2°38	14°24	29°56	18°53	28°45	27°14	11°40	16°43	S 11
S 12	21 23 20	19°31'08	20°13	0 Ω 55	9°35	18°40	2°31	2°44	14°22	29°55	18°54	28°37	27°11	11°47	16°43	S 12
M13	21 27 16	20°28'51	5 ₽ 1	2° 4	10° 6	18°57	2°42	2°50	14°20	29°54	18°55	28°30	27° 8	11°54	16°42	M13
T 14	21 31 13	21°26'36	19°41	3°19	10°39	19°13	2°53	2°57	14°18	29°53	18°55	28°25	27° 4	12° 0	16°41	T 14
W15	21 35 9	22°24'22	4 m , 7	4°39	11°12	19°29	3° 4	3° 3	14°17	29°52	18°56	28°21	27° 1	12° 7	16°41	W15
T 16	21 39 6	23°22'10	18°16	6° 5	11°48	19°45	3°15	3° 9	14°15	29°51	18°57	28°D20	26°58	12°14	16°41	T 16
F 17	21 43 2	24°19'58	2 √ 6	7°36	12°24	19°59	3°26	3°15	14°13	29°50	18°58	28°20	26°55	12°21	16°40	F 17
S 18	21 46 59	25°17'48	15°39	9°11	13° 2	20°13	3°37	3°21	14°12	29°50	18°58	28°21	26°52	12°27	16°40	S 18
S 19	21 50 55	26°15'38	28°56	10°50	13°41	20°26	3°48	3°28	14°10	29°49	18°59	28°R21	26°49	12°34	16°40	S 19
M20	21 54 52	27°13'31	11 궁 58	12°33	14°20	20°39	3°58	3°34	14° 9	29°48	19° 0	28°20	26°45	12°41	16°D40	M20
T 21	21 58 49	28°11'24	24°48	14°20	15° 1	20°51	4° 9	3°41	14° 7	29°48	19° 0	28°17	26°42	12°47	16°40	T 21
W22	22 2 45	29° 9'19	7≈26	16° 9	15°43	21° 2	4°19	3°47	14° 6	29°47	19° 1	28°12	26°39	12°54	16°40	W22
T 23	22 6 42	0 m) 7'15	19°54	18° 0	16°26	21°12	4°30	3°54	14° 4	29°46	19° 1	28° 4	26°36	13° 1	16°40	T 23
F 24	22 10 38	1° 5'12	2) 13	19°53	17°10	21°22	4°40	4° 0	14° 3	29°46	19° 2	27°53	26°33	13° 8	16°41	F 24
S 25	22 14 35	2° 3'12	14°23	21°48	17°55	21°30	4°50	4° 7	14° 1	29°45	19° 2	27°42	26°30	13°14	16°41	S 25
S 26	22 18 31	3° 1'13	26°26	23°44	18°41	21°38	5° 0	4°13	14° 0	29°45	19° 3	27°30	26°26	13°21	16°42	S 26
M27	22 22 28	3°59'15	8 Υ 22	25°40	19°28	21°45	5°10	4°20	13°59	29°44	19° 3	27°18	26°23	13°28	16°42	M27
T 28	22 26 24	4°57'20	20°14	27°37	20°15	21°52	5°20	4°27	13°57	29°44	19° 4	27° 9	26°20	13°34	16°43	T 28
W29	22 30 21	5°55'26	2 8 4	29°34	21° 4	21°57	5°30	4°34	13°56	29°43	19° 4	27° 1	26°17	13°41	16°44	W29
T 30	22 34 18	6°53'35	13°57	1 m 31	21°53	22° 2	5°39	4°40	13°55	29°43	19° 5	26°57	26°14	13°48	16°45	T 30
F 31	22 38 14	7 m 51'45	25 8 56	3 m 28	229543	22 Y 6	5 9 49	4 ≗ 47	13 る 54	29 х 43	19耳 5	26 ₹ 54	26 ₹ 10	13 Y 55	16 ∡ 746	F 31

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W 1 T 2	18n 3 17 48			s 40 17n13 6s 9 s 26 17 15 6 6	2n 9 4s 1 2 17 4 3	23n13 0s16 23 13 0 16	1n25 2n17 1 23 2 17	23 s 7 0 s 27 23 7 0 27			23 s29 23 s28 23 29 23 28	8n48 16s50 6n 8 50 16 50 6	
F 3	17 32 17 16	20 26 3 25	17 57 3	10 17 18 6 3 2 54 17 20 6 0	2 24 4 4		1 21 2 17 1 19 2 17	23 7 0 27	22 23 1 6	14 55 8 7		8 53 16 50 6 8 55 16 50 6	2
S 5	17 0	23 48 1 29	18 24 2	2 38 17 23 5 56	2 39 4 6	23 13 0 16	1 16 2 17	23 8 0 27	22 23 1 6	14 55 8 7	23 29 23 28	8 58 16 50 6	1
M 6 T 7	16 44 16 27		18 37 2 18 48 2	2 21 17 26 5 53 2 5 17 29 5 49		23 13 0 16 23 13 0 16	1 14 2 17 1 11 2 16		-		23 29 23 28 23 29 23 28	9 0 16 51 6 9 3 16 51 6	0
W 8 T 9	16 10 15 53			48 17 31 5 45 31 17 34 5 40		23 12 0 16 23 12 0 16	1 9 2 16 1 7 2 16		22 23 1 6 22 23 1 6		23 29 23 27 23 29 23 27	9 5 16 51 6 9 7 16 52 6	0
F 10 S 11	15 35 15 18			15 17 37 5 36 58 17 40 5 31	3 12 4 12	23 12 0 16 23 12 0 16	1 4 2 16 1 2 2 16		22 23 1 6 22 23 1 6		23 29 23 27 23 29 23 27	9 10 16 52 5 : 9 12 16 52 5 :	59 59
S 12 M13 T 14	15 0 14 41 14 23	0s46 5 3 6 39 5 4 12 7 4 46	19 18 0	0 43 17 43 5 26 0 27 17 46 5 21 0 13 17 49 5 16	3 30 4 15	23 12 0 16 23 12 0 15 23 12 0 15	0 59 2 16 0 57 2 16 0 54 2 16	23 9 0 27	22 23 1 6	14 55 8 8		9 15 16 52 5 3 9 17 16 53 5 3 9 20 16 53 5 3	58
W15 T 16 F 17	14 4 13 45	16 49 4 9 20 28 3 18	19 9 0n 19 1 0	0n 1 17 51 5 11 0 15 17 54 5 5 0 27 17 56 5 0	3 40 4 17 3 45 4 18	23 12 0 15 23 11 0 15 23 11 0 15	0 51 2 15 0 49 2 15	23 10 0 27 23 10 0 27	22 23 1 6 22 23 1 6 22 23 1 6	14 54 8 8 14 54 8 9	23 28 23 27 23 28 23 27		57 57
S 18				39 17 58 4 54		23 11 0 15			22 23 1 6		23 28 23 27		56
S 19 M20	12 27	21 45 1 12	18 1 1	0 50 18 0 4 48 0 18 2 4 43	4 3 4 21	23 11 0 15 23 10 0 15	0 38 2 15	23 11 0 27	22 23 1 6 22 23 1 6	14 54 8 9		9 34 16 55 5	
T 21 W22 T 23	-	15 21 3 13	17 15 1	8 18 3 4 37 16 18 4 4 31	4 10 4 22	23 10 0 15 23 10 0 15	0 33 2 15	23 11 0 27	22 23 1 6 22 23 1 6	14 54 8 9	23 28 23 27 23 28 23 26	9 37 16 56 5 5 9 39 16 56 5 5	54
F 24 S 25	11 27 11 7 10 46	11 6 3 59 6 27 4 33 1 38 4 54	16 17 1	23 18 5 4 25 29 18 6 4 19 35 18 6 4 13	4 13 4 23 4 16 4 23 4 19 4 24		0 28 2 14	23 11 0 27 23 11 0 27 23 11 0 27	22 23 1 6 22 23 1 6 22 24 1 5	14 54 8 10	23 28 23 26 23 28 23 26 23 28 23 26	9 41 16 57 5 : 9 44 16 57 5 : 9 46 16 58 5 :	54
S 26 M27	10 25 10 4	3n12 5 2 7 52 4 57	_	39 18 6 4 7 42 18 6 4 1	4 22 4 24 4 24 4 25		0 22 2 14 0 20 2 14	23 11 0 27 23 12 0 27			23 28 23 26 23 27 23 26	9 49 16 58 5 3 9 51 16 58 5 3	
T 28 W29	9 43 9 21	12 13 4 38	13 57 1	44 18 5 3 55 46 18 4 3 48	4 26 4 25 4 28 4 25	23 8 0 14	0 17 2 14 0 14 2 14		22 24 1 5	14 53 8 10	23 27 23 26 23 27 23 26		52 51
T 30 F 31	9 0 8n38			47 18 3 3 42 n47 18n 1 3 s 36	4 29 4 25 4n31 4s26	23 8 0 14 23n 7 0s14		23 12 0 27 23 s12 0 s27	22 24 1 5 22 s24 1n 5		23 27 23 26 23 s27 23 s26	9 58 17 0 5 : 10n 1 17s 0 5n:	-

Julian Day Number = 2326479.5, Delta T = 38.04 sec Ecliptic obliquity = $23^{\circ}29'01$, Nutation = $0^{\circ}00'18$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}57'39$, Lahiri = $19^{\circ}04'39$ Greg. Calendar

SEPTEMBER 1657 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	Р	₽.	ß	Ç	Ŗ	Day
S 1	22 42 11	8 m 49'58	8 I I 6	5 m 25	23933	22 Y 8	5 9 58	4 Ω 54	13°R53	29°R42	19耳 6	26°D53	26 ₮ 7	14 Y 1	16 ∡ 747	S 1
S 2	22 46 7	9°48'12	20°33	7°20	24°25	22°10	6° 8	5° 1	13 る 52	29 х 42	19° 6	26°R54	26° 4	14° 8	16°48	S 2
M 3	22 50 4	10°46'29	39521	9°15	25°17	22°12	6°17	5° 8	13°51	29°42	19° 6	26 × 754	26° 1	14°15	16°49	M 3
T 4	22 54 0	11°44'47	16°34	11°10	26° 9	22°R12	6°26	5°15	13°50	29°41	19° 7	26°52	25°58	14°21	16°50	T 4
W 5	22 57 57	12°43'08	0Ω 17	13° 3	27° 3	22°11	6°35	5°22	13°49	29°41	19° 7	26°49	25°55	14°28	16°52	W 5
T 6	23 1 53	13°41'31	14°28	14°55	27°57	22°10	6°44	5°29	13°48	29°41	19° 7	26°42	25°51	14°35	16°53	T 6
F 7	23 5 50	14°39'55	29° 6	16°47	28°51	22° 7	6°52	5°36	13°48	29°41	19° 7	26°34	25°48	14°42	16°55	F 7
S 8	23 9 47	15°38'22	14 m) 5	18°37	29°46	22° 4	7° 1	5°43	13°47	29°41	19° 8	26°23	25°45	14°48	16°57	S 8
S 9	23 13 43	16°36'51	29°14	20°26	0 Ω 42	22° 0	7° 9	5°50	13°46	29°41	19° 8	26°12	25°42	14°55	16°58	S 9
M10	23 17 40	17°35'21	14 ≏ 24	22°14	1°38	21°55	7°18	5°57	13°45	29°41	19° 8	26° 2	25°39	15° 2	17° 0	M10
T 11	23 21 36	18°33'53	29°24	24° 2	2°34	21°49	7°26	6° 4	13°45	29°D41	19° 8	25°53	25°36	15° 8	17° 2	T 11
W12	23 25 33	19°32'27	14 m 7	25°48	3°32	21°42	7°34	6°11	13°44	29°41	19° 8	25°48	25°32	15°15	17° 4	W12
T 13	23 29 29	20°31'02	28°26	27°33	4°29	21°35	7°42	6°19	13°44	29°41	19° 9	25°44	25°29	15°22	17° 6	T 13
F 14	23 33 26	21°29'40	12 × 21	29°17	5°27	21°26	7°50	6°26	13°43	29°41	19° 9	25°43	25°26	15°29	17° 9	F 14
S 15	23 37 22	22°28'19	25°51	1☎ 0	6°26	21°17	7°57	6°33	13°43	29°41	19° 9	25°43	25°23	15°35	17°11	S 15
S 16	23 41 19	23°26'59	9 ਰ 1	2°42	7°25	21° 7	8° 5	6°40	13°43	29°41	19° 9	25°43	25°20	15°42	17°13	S 16
M17	23 45 16	24°25'41	21°51	4°23	8°24	20°56	8°12	6°47	13°42	29°41	19° 9	25°41	25°16	15°49	17°16	M17
T 18	23 49 12	25°24'25	4≈27	6° 3	9°24	20°45	8°19	6°55	13°42	29°42	19°R 9	25°37	25°13	15°55	17°18	T 18
W19	23 53 9	26°23'11	16°51	7°42	10°24	20°32	8°27	7° 2	13°42	29°42	19° 9	25°30	25°10	16° 2	17°21	W19
T 20	23 57 5	27°21'59	29° 6	9°20	11°25	20°19	8°33	7° 9	13°42	29°42	19° 9	25°20	25° 7	16° 9	17°24	T 20
F 21	0 1 2	28°20'48	11) 13	10°57	12°26	20° 6	8°40	7°17	13°42	29°42	19° 9	25° 8	25° 4	16°16	17°26	F 21
S 22	0 4 58	29°19'39	23°14	12°33	13°27	19°51	8°47	7°24	13°41	29°43	19° 9	24°54	25° 1	16°22	17°29	S 22
S 23	0 8 55	0 ჲ 18'32	5 Υ 10	14° 9	14°29	19°37	8°53	7°31	13°D41	29°43	19° 9	24°40	24°57	16°29	17°32	S 23
M24	0 12 51	1°17'28	17° 3	15°43	15°31	19°21	9° 0	7°39	13°42	29°44	19° 9	24°26	24°54	16°36	17°35	M24
T 25	0 16 48	2°16'25	28°54	17°17	16°33	19° 5	9° 6	7°46	13°42	29°44	19° 8	24°14	24°51	16°42	17°38	T 25
W26	0 20 44	3°15'25	10 8 45	18°50	17°36	18°48	9°12	7°53	13°42	29°44	19° 8	24° 5	24°48	16°49	17°42	W26
T 27	0 24 41	4°14'27	22°39	20°21	18°39	18°31	9°18	8° 1	13°42	29°45	19° 8	23°58	24°45	16°56	17°45	T 27
F 28	0 28 38	5°13'31	4 Ⅲ 38	21°52	19°43	18°14	9°23	8° 8	13°42	29°46	19° 8	23°55	24°41	17° 3	17°48	F 28
S 29	0 32 34	6°12'37	16°47	23°23	20°47	17°56	9°29	8°15	13°43	29°46	19° 8	23°53	24°38	17° 9	17°52	S 29
S 30	0 36 31	7 ≙ 11'46	29耳11	24 ₽ 52	21 Q 51	17 Y 38	9934	8 ₾ 23	13 る 43	29 х 47	19耳 8	23°D53	24 × 35	17 Y 16	17 ₹ 55	S 30

Day	0	D		ğ	Ŷ		♂	2	ŀ	ħ	1	ړ((j	Ţ	Е		n	S	Ç	ķ
	decl	decl lat	dec	l lat	decl la	at dec	l lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl lat
S 1	8n16	23n19 1	n38 11n1	2 1n47	17n59	3 s30 4n3	2 4s26	23n 7	0s14	0n 6	2n14	23 s12	0 s27	22 s24	1n 5	14n53	8 s 1 1	23 s27	23 s26	10n 3	17s 1 5n50
S 2	7 54	23 42 0	34 10 2	8 1 46	17 56	3 23 4 3	2 4 26	23 6	0 14	0 3	2 14	23 12	0 27	22 24	1 5	14 53	8 11	23 27	23 26	10 5	17 2 5 50
M 3	7 32	22 52 0)s34 9 4	3 1 44	17 53	3 17 4 3	3 4 26	23 6	0 14	0 0	2 14	23 12	0 27	22 24	1 5	14 53			23 25		
T 4	7 10	20 46 1	42 8 5	7 1 41	17 50	3 11 4 3			0 14	0s 3	2 14	23 12	0 27	22 24	1 5	14 53			23 25		
W 5	6 48		2 47 8 1			3 5 4 3	-		0 14	0 5		23 12		22 24	1 5				23 25		
T 6	6 25		3 43 7 2			2 58 4 3	-		0 14	0 8		23 13		22 24	1 5	-			23 25		
F 7	6 3		1 27 6 3	-		2 52 4 3			0 14	0 11		23 13		22 24	1 5	-			23 25		
S 8	5 40	1 45 4	54 5 5	1 1 28	17 32	2 46 4 3	2 4 24	23 4	0 14	0 14	2 13	23 13	0 27	22 24	1 5	14 52	8 12	23 26	23 25	10 20	17 5 5 47
S 9	5 18	4s17 5	5 0 5	4 1 23	17 26	2 40 4 3	1 4 23	23 4	0 14	0 17	2 13	23 13	0 27	22 24	1 5	14 52	8 12	23 26	23 25	10 22	17 5 5 47
M10	4 55	10 4 4	45 4 1	7 1 18	17 20	2 34 4 3	0 4 23	23 3	0 13	0 20	2 13	23 13	0 27	22 24	1 5	14 52	8 12	23 25	23 25	10 24	17 6 5 46
T 11	4 32	15 12 4	11 3 3	0 1 13	17 14	2 28 4 2	8 4 22	23 3	0 13	0 23	2 13	23 13	0 27	22 24	1 5	14 52	8 12	23 25	23 25	10 27	17 7 5 46
W12	4 9	19 18 3	3 21 2 4	3 1 8	17 7	2 21 4 2	6 4 21	23 3	0 13	0 25	2 13	23 13	0 27	22 24	1 5	14 52	8 12	23 25	23 25	10 29	17 7 5 46
T 13	3 46	22 6 2	2 19 1 5	6 1 2	16 59	2 15 4 2	5 4 20	23 2	0 13	0 28	2 13	23 13	0 27	22 24	1 5	14 52	8 12	23 25	23 24	10 31	17 8 5 45
F 14	3 23	23 28 1	10 1	9 0 56	16 51	2 9 4 2	3 4 19	23 2	0 13	0 31	2 13	23 13	0 27	22 24	1 5	14 52	8 12	23 25	23 24	10 34	17 8 5 45
S 15	3 0	23 24 0	n 1 0 2	0 50	16 43	2 3 4 2	0 4 17	23 2	0 13	0 34	2 13	23 13	0 27	22 24	1 5	14 51	8 13	23 25	23 24	10 36	17 9 5 44
S 16	2 36	22 1 1	10 0s2	0 44	16 34	1 57 4 1	8 4 16	23 1	0 13	0 37	2 13	23 13	0 27	22 24	1 5	14 51	8 13	23 25	23 24	10 38	17 10 5 44
M17	2 13	19 31 2	2 13 1 1	0 0 37	16 24	1 51 4 1	5 4 15	23 1	0 13	0 40	2 13	23 13	0 27	22 25	1 4	14 51	8 13	23 25	23 24	10 41	17 10 5 44
T 18	1 50	16 7 3	9 1 5	6 0 31	16 15	1 45 4 1	2 4 13	23 0	0 13	0 43	2 13	23 13	0 27	22 25	1 4	14 51	8 13	23 25	23 24	10 43	17 11 5 43
W19	1 26	12 5 3	3 55 2 4	0 24	16 4	1 39 4	9 4 11	23 0	0 13	0 46	2 13	23 13	0 26	22 25	1 4	14 51	8 13	23 24	23 24	10 45	17 12 5 43
T 20	1 3	7 36 4	1 29 3 2	7 0 17	15 53	1 33 4	6 4 9	23 0	0 13	0 49	2 13	23 13	0 26	22 25	1 4	14 51	8 13	23 24	23 24	10 48	17 12 5 42
F 21	0 40	2 53 4	1 51 4 1	1 0 10	15 42	1 28 4	3 4 8	22 59	0 13	0 51	2 13	23 13	0 26	22 25	1 4	14 51	8 13	23 24	23 23	10 50	17 13 5 42
S 22	0 16	1n53 4	1 59 4 5	5 0 3	15 30	1 22 3 5	9 4 5	22 59	0 13	0 54	2 13	23 13	0 26	22 25	1 4	14 50	8 13	23 23	23 23	10 52	17 13 5 42
S 23	0s 7	6 34 4	55 5 3	9 0s 4	15 18	1 16 3 5	6 4 3	22 59	0 12	0 57	2 13	23 13	0 26	22 25	1 4	14 50	8 14	23 23	23 23	10 54	17 14 5 41
M24	0 31	10 58 4	1 37 6 2	2 0 11	15 5	1 11 3 5	2 4 1	22 58	0 12	1 0	2 13	23 13	0 26	22 25	1 4	14 50	8 14	23 22	23 23	10 57	17 15 5 41
T 25	0 54	14 57 4	1 7 7	5 0 18	14 52	1 5 3 4	8 3 59	22 58	0 12	1 3	2 13	23 13	0 26	22 25	1 4	14 50	8 14	23 21	23 23	10 59	17 15 5 40
W26	1 18	18 21 3	3 27 7 4	7 0 26	14 39	0 59 3 4	4 3 56	22 58	0 12	1 6	2 13	23 13	0 26	22 25	1 4	14 50	8 14	23 21	23 23	11 1	17 16 5 40
T 27	1 41	21 0 2	2 37 8 2	9 0 33	14 24	0 54 3 4		22 57	0 12	1 9		23 13	0 26	22 25	1 4	14 50			23 23		17 17 5 40
F 28	-	-	40 9 1	0 40	14 10	0 49 3 3		22 57	0 12	1 12		23 13		22 25	1 4				23 23		17 17 5 39
S 29	2 28	23 27 0	38 9 5	0 47	13 55	0 43 3 3	2 3 48	22 57	0 12	1 15	2 13	23 13	0 26	22 25	1 4	14 49	8 14	23 21	23 22	11 8	17 18 5 39
S 30	2 s52	23n 1 0	s28 10s3	0 os55	13n39	0 s 3 8 3 n 2	8 3 s45	22n56	0 s12	1 s 1 8	2n13	23 s13	0 s 2 6	22 s25	1n 4	14n49	8s15	23 s21	23 s22	11n11	17s19 5n39

Julian Day Number = 2326510.5, Delta T = 37.99 sec Ecliptic obliquity = 23°29'01, Nutation = $0^\circ00'18$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^\circ57'43$, Lahiri = $19^\circ04'44$ Greg. Calendar

OCTOBER 1657 GC 00:00 UT

0010	DEN TO	<i>37</i> uc													00.00	0 0.
Day	Sid.t	0	D	ğ	Ş	♂	4	ħ)∤(并	В	S.	Ω	Ç	ķ	Day
M 1	0 40 27	8 ≏ 10'57	11955	26 ♀ 20	22 N 55	17°R19	99540	8 ₾ 30	13 る 43	29 х 47	19°R 7	23°R53	24 × 32	17 Y 23	17 ∡ 759	M 1
T 2	0 44 24	9°10'11	25° 3	27°48	24° 0	17 Y 0	9°45	8°37	13°44	29°48	19 I 7	23 × 752	24°29	17°29	18° 2	T 2
W 3	0 48 20	10° 9'27	$8\Omega 38$	29°15	25° 5	16°41	9°49	8°45	13°44	29°49	19° 7	23°49	24°26	17°36	18° 6	W 3
T 4	0 52 17	11° 8'45	22°44	0 M .41	26°10	16°22	9°54	8°52	13°45	29°50	19° 6	23°44	24°22	17°43	18°10	T 4
F 5	0 56 13	12° 8'05	7 m)19	2° 6	27°15	16° 3	9°59	8°59	13°45	29°50	19° 6	23°36	24°19	17°50	18°14	F 5
S 6	1 0 10	13° 7'28	22°18	3°30	28°21	15°44	10° 3	9° 7	13°46	29°51	19° 6	23°27	24°16	17°56	18°18	S 6
S 7	1 4 7	14° 6'53	7 ₽ 33	4°53	29°27	15°24	10° 7	9°14	13°47	29°52	19° 5	23°16	24°13	18° 3	18°22	S 7
M 8	1 8 3	15° 6'19	22°53	6°15	0 m /33	15° 5	10°11	9°22	13°48	29°53	19° 5	23° 6	24°10	18°10	18°26	M 8
T 9	1 12 0	16° 5'48	8M 6	7°36	1°40	14°46	10°15	9°29	13°48	29°54	19° 4	22°58	24° 7	18°16	18°30	T 9
W10	1 15 56	17° 5'19	23° 3	8°56	2°46	14°27	10°19	9°36	13°49	29°55	19° 4	22°52	24° 3	18°23	18°34	W10
T 11	1 19 53	18° 4'52	7 .₹ 37	10°15	3°53	14° 8	10°22	9°44	13°50	29°56	19° 3	22°49	24° 0	18°30	18°38	T 11
F 12	1 23 49	19° 4'27	21°42	11°33	5° 0	13°50	10°25	9°51	13°51	29°57	19° 3	22°D48	23°57	18°37	18°43	F 12
S 13	1 27 46	20° 4'03	5 る 20	12°50	6° 8	13°32	10°28	9°58	13°52	29°58	19° 2	22°49	23°54	18°43	18°47	S 13
S 14	1 31 42	21° 3'41	18°32	14° 5	7°15	13°14	10°31	10° 5	13°53	29°59	19° 2	22°R49	23°51	18°50	18°52	S 14
M15	1 35 39	22° 3'21	1≈22	15°18	8°23	12°57	10°34	10°13	13°54	29°59	19° 1	22°49	23°47	18°57	18°56	M15
T 16	1 39 36	23° 3'03	13°53	16°30	9°31	12°40	10°37	10°20	13°55	0ਰ 1	19° 1	22°46	23°44	19° 3	19° 1	T 16
W17	1 43 32	24° 2'46	26°10	17°40	10°39	12°23	10°39	10°27	13°57	0° 2	19° 0	22°42	23°41	19°10	19° 5	W17
T 18	1 47 29	25° 2'31	8) 16	18°48	11°47	12° 7	10°41	10°34	13°58	0° 3	19° 0	22°35	23°38	19°17	19°10	T 18
F 19	1 51 25	26° 2'18	20°16	19°54	12°56	11°52	10°43	10°42	13°59	0° 4	18°59	22°25	23°35	19°24	19°15	F 19
S 20	1 55 22	27° 2'06	2 Υ 10	20°58	14° 4	11°37	10°45	10°49	14° 1	0° 6	18°58	22°15	23°32	19°30	19°20	S 20
S 21	1 59 18	28° 1'57	14° 3	21°59	15°13	11°23	10°46	10°56	14° 2	0° 7	18°58	22° 4	23°28	19°37	19°25	S 21
M22	2 3 15	29° 1'49	25°55	22°57	16°22	11° 9	10°48	11° 3	14° 3	0° 8	18°57	21°54	23°25	19°44	19°30	M22
T 23	2 7 11	OM 1'43	7 8 47	23°52	17°31	10°56	10°49	11°10	14° 5	0°10	18°56	21°44	23°22	19°50	19°35	T 23
W24	2 11 8	1° 1'40	19°42	24°43	18°41	10°44	10°50	11°17	14° 7	0°11	18°56	21°38	23°19	19°57	19°40	W24
T 25	2 15 4	2° 1'38	1∏42	25°31	19°50	10°33	10°50	11°24	14° 8	0°12	18°55	21°33	23°16	20° 4	19°45	T 25
F 26	2 19 1	3° 1'39	13°47	26°14	21° 0	10°22	10°51	11°31	14°10	0°14	18°54	21°31	23°12	20°10	19°50	F 26
S 27	2 22 58	4° 1'41	26° 2	26°52	22°10	10°12	10°51	11°39	14°11	0°15	18°53	21°D31	23° 9	20°17	19°55	S 27
S 28	2 26 54	5° 1'46	8930	27°25	23°20	10° 3	10°R52	11°46	14°13	0°17	18°53	21°32	23° 6	20°24	20° 1	S 28
M29	2 30 51	6° 1'52	21°14	27°52	24°30	9°54	10°52	11°52	14°15	0°18	18°52	21°33	23° 3	20°31	20° 6	M29
T 30	2 34 47	7° 2'01	4Ω 19	28°12	25°40	9°47	10°51	11°59	14°17	0°20	18°51	21°R34	23° 0	20°37	20°11	T 30
W31	2 38 44	8M 2'12	17 Ω 47	28M25	26Mp 51	9 Ƴ 40	10951	12 º 6	14 る 19	0 궁 21	18 Ⅱ 50	21 × 33	22 × 757	20 Υ 44	20 х 17	W31

Day	0	J)	ğ	5	ς	2	ď	1	2	ł	ħ	<u> </u>)į	(ý	ŧ.	Е)	n	Ω	Ç	ķ	;
	decl	decl	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	3 s15	21n23	1 s34	11s 9	1 s 2	13n23	0 s33	3n24	3 s42	22n56	0 s12	1 s20	2n13	23 s13	0 s 2 6	22 s25	1n 4	14n49	8s15	23 s21	23 s22	11n13	17s19	5n38
T 2	3 38	18 35	2 37	11 47	1 9	13 7	0 28	3 20	3 39	22 56	0 12	1 23		23 13		22 25	1 4	14 49	8 15	23 20	23 22	11 15	17 20	5 38
W 3	4 2			12 25			-	3 15		22 55	0 12	1 26		23 13		22 25		14 49			23 22			5 38
T 4	4 25		4 19		1 23			3 11		22 55	0 12	1 29		23 12		22 25		14 49			23 22			5 37
F 5	4 48			13 38				3 7		22 55	0 12	1 32		23 12		22 25		14 48			23 22			5 37
S 6	5 11	1 s34	5 2	14 13	1 36	11 57	0 8	3 3	3 25	22 55	0 11	1 35	2 13	23 12	0 26	22 25	1 4	14 48	8 15	23 19	23 22	11 24	17 23	5 36
S 7	5 35	7 29	4 53	14 47	1 43	11 39	0 3	2 59	3 21	22 54	0 11	1 38	2 13	23 12	0 26	22 25	1 4	14 48	8 15	23 19	23 21	11 26	17 23	5 36
M 8	5 58	12 58	4 23	15 21	1 50	11 20	0n 2	2 55	3 18	22 54	0 11	1 40	2 13	23 12	0 26	22 25	1 4	14 48	8 16	23 18	23 21	11 29	17 24	5 36
T 9	6 21	17 37	3 34	15 54	1 56	11 0	0 7	2 51	3 14	22 54	0 11	1 43	2 13	23 12	0 26	22 26	1 3	14 48	8 16	23 18	23 21	11 31	17 25	5 35
W10	6 43	21 1	2 31	16 26	2 2	10 41	0 11	2 47		22 54	0 11	1 46	2 13	23 12		22 26		14 48			23 21			5 35
T 11		22 56		16 57			0 16	2 44		22 54	0 11	1 49		23 12		22 26		14 48			23 21			5 35
F 12		23 19		17 27	2 14			2 40		22 54	0 11	1 52		23 12		22 26		14 47			23 21			5 35
S 13	7 52	22 16	1n 6	17 56	2 19	9 39	0 24	2 37	2 58	22 53	0 11	1 55	2 13	23 12	0 26	22 26	1 3	14 47	8 16	23 17	23 21	11 40	17 27	5 34
S 14	8 14	20 0	2 13	18 24	2 25	9 18	0 28	2 34	2 54	22 53	0 11	1 57	2 14	23 11	0 26	22 26	1 3	14 47	8 16	23 17	23 20	11 42	17 28	5 34
M15	8 36	16 48	3 11	18 50	2 30	8 57	0 33	2 31		22 53	0 11	2 0	2 14	23 11	0 26	22 26		14 47	8 16		23 20			5 34
T 16	8 59	-		19 16		8 35	0 37	2 28		22 53	0 11	2 3	2 14			22 26		14 47	8 16		23 20			5 33
W17	9 21	8 32		19 40		8 13	0 41	2 26		22 53	0 10	2 6		23 11		22 26		14 47			23 20			5 33
T 18	9 43	3 55	4 55		2 43	7 50	0 44	2 24		22 53	0 10	2 9		23 11		22 26		14 46			23 20			5 33
F 19	10 4	0n48		20 25	2 46	7 28	0 48	2 22		22 53	0 10	2 11		23 11		22 26		14 46			23 20			5 32
S 20	10 26	5 27	5 0	20 45	2 50	7 5	0 52	2 20	2 28	22 53	0 10	2 14	2 14	23 11	0 26	22 26	1 3	14 46	8 17	23 15	23 19	11 55	17 32	5 32
S 21	10 48	9 54	4 43	21 4	2 52	6 41	0 55	2 18		22 53	0 10	2 17	2 14	23 10	0 26	22 26	1 3	14 46			23 19			5 32
M22	11 9	13 57		21 21	2 54	6 18	0 59	2 17		22 53	0 10	2 20		23 10		22 26	1 3	14 46			23 19			5 32
T 23		17 29		21 37	2 56		1 2	2 16		22 53	0 10	2 22		23 10		22 26	1 3				23 19			5 31
W24				21 50		5 29	1 6	2 15		22 53	0 10	2 25		23 10		22 26	1 3				23 19			5 31
T 25			1 45			5 5		2 14		22 53	0 10	2 28		23 10		22 26		14 45			23 19			5 31
F 26				22 12				2 14		22 53	0 10	2 30		23 10		22 26		14 45			23 19			5 31
S 27	12 53	23 1	0s24	22 20	2 55	4 16	1 15	2 14	1 59	22 53	0 10	2 33	2 15	23 9	0 26	22 26	1 3	14 45	8 18	23 13	23 18	12 11	17 36	5 30
S 28	13 13	21 42	1 31	22 25	2 53	3 50	1 18	2 14	1 54	22 53	0 9	2 36	2 15	23 9	0 26	22 26	1 3	14 45	8 18	23 13	23 18	12 13	17 37	5 30
M29	13 33	19 16	2 34	22 28	2 49	3 25	1 21	2 15	1 50	22 53	0 9	2 38	2 15	23 9	0 26	22 26	1 3	14 45			23 18			5 30
T 30				22 28		-	1 23	2 15		22 53	0 9	2 41	2 15	-		22 26	1 3	14 45			23 18			5 30
W31	14 s13	11n26	4s18	22 s25	2 s 3 9	2n34	1n26	2n16	1 s42	22n53	0s 9	2 s43	2n15	23 s 9	0s26	22 s26	1n 3	14n45	8s18	23 s13	23 s18	12n20	17s39	5n30

 $\label{eq:Julian Day Number = 2326540.5, Delta T = 37.93 sec} \\ Ecliptic obliquity = 23°29'01, Nutation = 0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°57'47, Lahiri = 19°04'48Greg. Calendar$

NOVEMBER 1657 GC 00:00 UT

Day	Sid.t	0	D	ğ	Q	♂	4	ħ)វ(¥	Р	ß	Ω	Ç	ę,	Day
T 1	2 42 40	9M 2'25	1 Mp 41	28°R30	28 m 2	9°R33	10°R50	12 ≏ 13	14 ට 21	0 ට 23	18°R49	21°R31	22 × 753	20 Υ 51	20 × ⁷ 22	T 1
F 2	2 46 37	10° 2'40	16° 2	28M26	29°12	9 Υ 28	109549	12°20	14°23	0°24	18 Ⅱ 48	21 × 127	22°50	20°57	20°28	F 2
S 3	2 50 33	11° 2'57	0 <u>ჲ</u> 46	28°13	0 ჲ 23	9°24	10°48	12°27	14°25	0°26	18°47	21°22	22°47	21° 4	20°33	S 3
S 4	2 54 30	12° 3'16	15°48	27°50	1°34	9°20	10°47	12°34	14°27	0°28	18°47	21°16	22°44	21°11	20°39	S 4
M 5	2 58 27	13° 3'37	0 M .59	27°18	2°45	9°17	10°46	12°40	14°29	0°29	18°46	21°10	22°41	21°18	20°45	M 5
T 6	3 2 23	14° 4'00	16°10	26°35	3°57	9°15	10°44	12°47	14°31	0°31	18°45	21° 5	22°38	21°24	20°50	T 6
W 7	3 6 20	15° 4'25	1 √ 10	25°43	5° 8	9°14	10°42	12°54	14°33	0°33	18°44	21° 2	22°34	21°31	20°56	W 7
T 8	3 10 16	16° 4'51	15°50	24°42	6°19	9°D13	10°40	13° 0	14°35	0°34	18°43	21°D 0	22°31	21°38	21° 2	T 8
F 9	3 14 13	17° 5'19	0중 5	23°33	7°31	9°14	10°38	13° 7	14°37	0°36	18°42	21° 0	22°28	21°44	21° 8	F 9
S 10	3 18 9	18° 5'48	13°53	22°17	8°43	9°15	10°36	13°13	14°40	0°38	18°41	21° 2	22°25	21°51	21°14	S 10
S 11	3 22 6	19° 6'18	27°14	20°58	9°54	9°17	10°33	13°20	14°42	0°40	18°40	21° 3	22°22	21°58	21°20	S 11
M12	3 26 3	20° 6'50	10≈ 9	19°37	11° 6	9°19	10°30	13°26	14°44	0°41	18°39	21° 5	22°18	22° 4	21°26	M12
T 13	3 29 59	21° 7'23	22°43	18°17	12°18	9°23	10°27	13°32	14°47	0°43	18°38	21°R 5	22°15	22°11	21°32	T 13
W14	3 33 56	22° 7'57	5 ₩ 0	17° 0	13°30	9°27	10°24	13°39	14°49	0°45	18°37	21° 4	22°12	22°18	21°38	W14
T 15	3 37 52	23° 8'33	17° 4	15°50	14°42	9°32	10°20	13°45	14°52	0°47	18°36	21° 2	22° 9	22°25	21°44	T 15
F 16	3 41 49	24° 9'09	29° 1	14°49	15°55	9°38	10°17	13°51	14°54	0°49	18°35	20°59	22° 6	22°31	21°50	F 16
S 17	3 45 45	25° 9'47	10 Y 53	13°57	17° 7	9°45	10°13	13°57	14°57	0°51	18°34	20°54	22° 3	22°38	21°56	S 17
S 18	3 49 42	26°10'26	22°44	13°16	18°19	9°52	10° 9	14° 4	15° 0	0°53	18°33	20°50	21°59	22°45	22° 2	S 18
M19	3 53 38	27°11'07	4 8 37	12°46	19°32	10° 0	10° 5	14°10	15° 2	0°55	18°32	20°46	21°56	22°51	22° 8	M19
T 20	3 57 35	28°11'48	16°33	12°29	20°45	10°8	10° 1	14°16	15° 5	0°57	18°30	20°42	21°53	22°58	22°14	T 20
W21	4 1 3 1	29°12'31	28°36	12°D22	21°57	10°18	9°56	14°22	15° 8	0°59	18°29	20°39	21°50	23° 5	22°21	W21
T 22	4 5 28	0 ₮ 13'16	10 Ⅱ 46	12°27	23°10	10°28	9°52	14°27	15°10	1° 1	18°28	20°38	21°47	23°12	22°27	T 22
F 23	4 9 25	1°14'01	23° 5	12°41	24°23	10°38	9°47	14°33	15°13	1° 3	18°27	20°D38	21°44	23°18	22°33	F 23
S 24	4 13 21	2°14'49	5935	13° 5	25°36	10°50	9°42	14°39	15°16	1° 5	18°26	20°38	21°40	23°25	22°39	S 24
S 25	4 17 18	3°15'37	18°17	13°38	26°49	11° 2	9°37	14°45	15°19	1° 7	18°25	20°39	21°37	23°32	22°46	S 25
M26	4 21 14	4°16'27	1 Q 12	14°18	28° 2	11°14	9°31	14°50	15°22	1° 9	18°24	20°41	21°34	23°38	22°52	M26
T 27	4 25 11	5°17'18	14°23	15° 4	29°15	11°27	9°26	14°56	15°24	1°11	18°23	20°42	21°31	23°45	22°59	T 27
W28	4 29 7	6°18'11	27°52	15°57	0 ™ 28	11°41	9°20	15° 2	15°27	1°13	18°22	20°43	21°28	23°52	23° 5	W28
T 29	4 33 4	7°19'05	11 m 39	16°55	1°42	11°55	9°14	15° 7	15°30	1°15	18°20	20°R43	21°24	23°58	23°11	T 29
F 30	4 37 1	8 ₮ 20'00	25 m 45	17 M 57	2 M 55	12 Y 10	995 8	15 ≏ 12	15 る 33	1 ਰ 17	18 I I19	20 ∡ 142	21 × 121	24 Y 5	23×18	F 30

Day	0	D	ğ	·	ð	4	ħ)Å(并	Р	v v	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
T 1 F 2 S 3	14 s32 14 51 15 10	0 47 5 9	22s19 2s3 22 10 2 2 21 57 2 1	3 1 42 1 31	2 19 1 34	22n53 0s 9 22 54 0 9 22 54 0 9	2s46 2n15 2 48 2 15 2 51 2 15	23 8 0 26	22 s26 1n 3 22 26 1 3 22 26 1 2	14 44 8 18	23 s13 23 s18 23 12 23 17 23 12 23 17	12 24	17 s39 5n29 17 40 5 29 17 41 5 29
S 4 M 5 T 6 W 7 T 8	15 29 15 47 16 5 16 23 16 41	15 34 3 59 19 33 2 58 22 10 1 46	21 20 1 4 20 55 1 3 20 27 1 1	2 0s 3 1 39 5 0 30 1 41	2 26 1 22 2 28 1 18 2 31 1 15	22 54 0 9 22 54 0 9 22 54 0 9 22 55 0 8 22 55 0 8	2 54 2 15 2 56 2 16 2 59 2 16 3 1 2 16 3 3 2 16	23 7 0 26 23 7 0 26 23 7 0 26	22 27 1 2 22 27 1 2	14 44 8 18 14 44 8 18 14 44 8 18	23 12 23 17 23 11 23 17 23 11 23 17 23 11 23 16 23 11 23 16	12 30 12 32 12 35	17 42 5 29 17 42 5 28 17 43 5 28
F 9 S 10	16 58	22 40 0n49	19 18 0 3 18 40 0 1	8 1 23 1 45	2 38 1 7	22 55 0 8 22 56 0 8	3 6 2 16 3 8 2 16	23 6 0 26	22 27 1 2 22 27 1 2	14 43 8 18	23 11 23 16 23 11 23 16	12 39	17 44 5 28
S 11 M12 T 13 W14 T 15 F 16 S 17	17 32 17 48 18 4 18 20 18 36 18 51 19 5	13 56 3 57 9 37 4 36 5 1 5 1 0 19 5 13 4n21 5 10	16 36 0 4 15 57 1	3 2 43 1 49 3 3 10 1 51 3 3 37 1 52 0 4 4 1 53 6 4 31 1 54	2 50 0 57 2 54 0 53 2 59 0 50 3 4 0 47 3 9 0 44	22 57 0 8 22 57 0 8 22 57 0 8	3 11 2 16 3 13 2 17 3 15 2 17 3 18 2 17 3 20 2 17 3 22 2 17 3 24 2 17	23 6 0 26 23 5 0 26 23 5 0 26 23 5 0 26 23 5 0 26 23 4 0 26	22 27 1 2 22 27 1 2	14 43 8 19 14 43 8 19 14 43 8 19 14 43 8 19 14 42 8 19	23 11 23 16 23 11 23 16 23 11 23 15 23 11 23 15 23 11 23 15 23 11 23 15 23 10 23 15	12 45 12 47 12 50 12 52 12 54	17 45 5 28 17 46 5 27 17 46 5 27 17 47 5 27 17 47 5 27
S 18 M19 T 20 W21 T 22 F 23 S 24	19 48	16 38 3 47 19 38 2 57 21 49 1 58 23 0 0 54 23 5 0s14	13 36 2 1 13 23 2 2	0 6 18 1 57 6 6 45 1 57 0 7 12 1 58 3 7 38 1 58	3 26 0 34 3 33 0 31 3 39 0 28 3 45 0 26	23 0 0 7 23 1 0 7	3 27 2 17 3 29 2 18 3 31 2 18 3 33 2 18 3 35 2 18 3 37 2 18 3 39 2 19	23 4 0 26 23 3 0 26 23 3 0 26 23 3 0 26 23 2 0 26		14 42 8 19 14 42 8 19 14 42 8 19 14 42 8 19 14 42 8 19	23 9 23 14 23 9 23 14 23 9 23 13	13 0 13 2 13 4 13 6 13 8	17 49 5 27 17 49 5 27 17 50 5 27 17 50 5 26 17 50 5 26
T 29	20 51 21 2 21 13 21 24 21 34 21 s44	12 28 4 15 7 40 4 52 2 23 5 13	13 44 2 3 14 0 2 3	2 8 57 1 59 0 9 23 1 59 6 9 49 1 58 2 10 14 1 58	4 6 0 17 4 14 0 15 4 21 0 12 4 29 0 10 4 37 0 7 4n45 0s 5	23 2 0 6 23 3 0 6 23 3 0 6	3 49 2 19	23 1 0 26 23 1 0 26 23 1 0 26 23 1 0 26 23 0 0 26	22 27 1 2 22 27 1 2 22 27 1 2	14 41 8 19 14 41 8 19 14 41 8 19 14 41 8 19	23 9 23 13 23 9 23 13 23 9 23 12	13 15 13 17 13 19 13 21	17 52 5 26 17 52 5 26 17 52 5 26 17 53 5 26

Julian Day Number = 2326571.5, Delta T = 37.87 sec Ecliptic obliquity = $23^{\circ}29'01$, Nutation = $0^{\circ}00'16$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}57'52$, Lahiri = $19^{\circ}04'52$ Greg. Calendar

DECEMBER 1657 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	Р	n	v	Ç	Ŗ	Day
S 1	4 40 57	9 × 720'57	10₽9	19 M 3	4M 8	12 Y 25	9°R 2	15 ≏ 18	15 ප 36	1 る 19	18°R18	20°R41	21 × 18	24 Υ 12	23 × 124	S 1
S 2	4 44 54	10°21'55	24°47	20°13	5°22	12°41	8956	15°23	15°39	1°22	18 I I17	20 х 40	21°15	24°19	23°31	S 2
M 3	4 48 50	11°22'54	9 M .34	21°26	6°35	12°58	8°50	15°28	15°42	1°24	18°16	20°39	21°12	24°25	23°37	M 3
T 4	4 52 47	12°23'54	24°24	22°41	7°49	13°15	8°43	15°33	15°46	1°26	18°15	20°38	21° 9	24°32	23°44	T 4
W 5	4 56 43	13°24'56	9 , 7 8	23°58	9° 3	13°32	8°36	15°38	15°49	1°28	18°13	20°37	21° 5	24°39	23°50	W 5
T 6	5 0 40	14°25'58	23°40	25°17	10°16	13°50	8°30	15°43	15°52	1°30	18°12	20°D37	21° 2	24°45	23°57	T 6
F 7	5 4 36	15°27'01	7 云 54	26°38	11°30	14° 9	8°23	15°48	15°55	1°32	18°11	20°38	20°59	24°52	24° 3	F 7
S 8	5 8 33	16°28'05	21°45	28° 0	12°44	14°28	8°16	15°53	15°58	1°35	18°10	20°38	20°56	24°59	24°10	S 8
S 9	5 12 30	17°29'09	5≈11	29°24	13°58	14°47	8° 9	15°58	16° 1	1°37	18° 9	20°38	20°53	25° 5	24°16	S 9
M10	5 16 26	18°30'14	18°13	0 ∡ 149	15°11	15° 7	8° 1	16° 2	16° 5	1°39	18° 8	20°39	20°50	25°12	24°23	M10
T 11	5 20 23	19°31'19	0) ₹53	2°14	16°25	15°27	7°54	16° 7	16° 8	1°41	18° 6	20°39	20°46	25°19	24°29	T 11
W12	5 24 19	20°32'25	13°14	3°41	17°39	15°48	7°47	16°11	16°11	1°44	18° 5	20°39	20°43	25°26	24°36	W12
T 13	5 28 16	21°33'31	25°20	5° 8	18°53	16° 9	7°39	16°16	16°14	1°46	18° 4	20°39	20°40	25°32	24°42	T 13
F 14	5 32 12	22°34'37	7 Υ 17	6°35	20° 7	16°31	7°31	16°20	16°18	1°48	18° 3	20°39	20°37	25°39	24°49	F 14
S 15	5 36 9	23°35'44	19° 8	8° 4	21°21	16°53	7°24	16°24	16°21	1°50	18° 2	20°39	20°34	25°46	24°56	S 15
S 16	5 40 5	24°36'50	0 8 59	9°32	22°35	17°15	7°16	16°28	16°24	1°53	18° 1	20°40	20°30	25°52	25° 2	S 16
M17	5 44 2	25°37'57	12°53	11° 2	23°50	17°38	7° 8	16°33	16°28	1°55	17°59	20°40	20°27	25°59	25° 9	M17
T 18	5 47 59	26°39'05	24°55	12°31	25° 4	18° 1	7° 0	16°37	16°31	1°57	17°58	20°41	20°24	26° 6	25°15	T 18
W19	5 51 55	27°40'12	7 I I 6	14° 1	26°18	18°25	6°52	16°40	16°35	1°59	17°57	20°41	20°21	26°12	25°22	W19
T 20	5 55 52	28°41'20	19°29	15°32	27°32	18°49	6°45	16°44	16°38	2° 2	17°56	20°R41	20°18	26°19	25°28	T 20
F 21	5 59 48	29°42'28	295 5	17° 3	28°46	19°13	6°37	16°48	16°42	2° 4	17°55	20°41	20°15	26°26	25°35	F 21
S 22	6 3 45	0 ප් 43'37	14°55	18°34	0 才 1	19°37	6°28	16°52	16°45	2° 6	17°54	20°41	20°11	26°33	25°41	S 22
S 23	6 741	1°44'46	28° 0	20° 5	1°15	20° 2	6°20	16°55	16°48	2° 8	17°53	20°39	20° 8	26°39	25°48	S 23
M24	6 11 38	2°45'55	11 Ω 17	21°37	2°29	20°27	6°12	16°59	16°52	2°11	17°51	20°38	20° 5	26°46	25°54	M24
T 25	6 15 34	3°47'04	24°48	23° 9	3°44	20°53	6° 4	17° 2	16°55	2°13	17°50	20°36	20° 2	26°53	26° 1	T 25
W26	6 19 31	4°48'14	8 m y30	24°41	4°58	21°18	5°56	17° 5	16°59	2°15	17°49	20°34	19°59	26°59	26° 7	W26
T 27	6 23 28	5°49'24	22°23	26°14	6°13	21°44	5°48	17° 8	17° 2	2°17	17°48	20°33	19°56	27° 6	26°14	T 27
F 28	6 27 24	6°50'34	6 Ω 25	27°47	7°27	22°11	5°40	17°12	17° 6	2°20	17°47	20°D33	19°52	27°13	26°20	F 28
S 29	6 31 21	7°51'45	20°36	29°21	8°42	22°37	5°32	17°15	17° 9	2°22	17°46	20°33	19°49	27°19	26°27	S 29
S 30	6 35 17	8°52'56	4 M .52	0 궁 54	9°56	23° 4	5°24	17°17	17°13	2°24	17°45	20°34	19°46	27°26	26°33	S 30
M31	6 39 14	9 ප 54'07	19 M 12	2 る 28	11711	23 Y 31	59916	17 ≏ 20	17 る 16	2 る 27	17 ∏ 44	20 ∡ 36	19 ×7 43	27 Y 33	26 ∡ 140	M31

Day	0	D		ğ		P		ď	1		4		ħ	1)	ł(4	7	E	2	R	v	ţ	Ł	5
	decl	decl lat	t	decl	lat	decl	lat	decl	lat	dec	l lat		decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21 s54	8 s 3 6	1s59 1	15 s24	2n12	11s 5	1n57	4n53	0s 2	23n	5 0	s 6	3 s53	2n20	23 s 0	0s26	22 s27	1n 2	14n41	8s19	23 s 9	23 s12	13n25	17 s53	5n26
S 2	22 3	13 41 4	1 22 1	15 48	2 6	11 30	1 57	5 1	0 0	23	6 0	5	3 55	2 20	22 59	0 26	22 27	1 2	14 41	8 19	23 9	23 12	13 27	17 54	5 26
M 3	22 11			16 13		-	1 56	5 10	0n 2	_	6 0	-	3 57		22 59		22 27	1 2		8 19		23 11			
T 4	-	-		16 39	1 54		1 56	5 18	0 4		7 0	-	3 58	2 21				1 2		8 19		23 11		17 54	
W 5		22 54 1	-	17 4	1 47 1 40	12 43	1 55	5 27	0 7	_	7 0	-	4 0	2 21 2 21	22 58		22 27	1 2		8 19		23 11		17 55	
T 6 F 7	_)n17 1 34 1	17 30	1 40	13 7 13 31	1 54 1 53	5 36 5 45	0 9 0 11	_	8 0 8 0	-	4 2 4 3	2 21			22 27 22 27	1 2 1 2		8 19 8 19		23 11 23 11		17 55	
S 8	22 41		2 44 1			13 54	1 52	5 54	0 11		9 0		4 3 4 5		22 57		22 27		14 40	8 19		23 10			
S 9 M10		-	3 43 1 1 28 1	18 48	1 18	14 17 14 40	1 51 1 50	6 4 6 13	0 15 0 17	_	9 0		4 7 4 8	2 22	22 57		22 27 22 27	1 2	-	8 19 8 19		23 10	-	17 56	
T 11	22 59 23 4	-	-	19 13	1 10	-	1 49	6 23		23 1		4	4 8 4 10	2 22			22 27	1 2 1 2		8 19		23 10		17 56	
W12	23 9			20 1	0 55		1 48	6 33		23 1			4 11		22 55		22 27	1 1		8 19		23 10		17 56	
T 13	23 13	-	5 16 2	-	0 48		1 46	6 42		23 1			4 13		22 55		22 27	1 1		8 18		23 9		17 56	
F 14	23 16	7 33 5		20 48	0 40		1 45	6 52		23 1		4	4 14		22 55		22 27	1 1		8 18		23 9		17 56	
S 15	23 20	11 49 4	1 39 2	21 10	0 32	16 28	1 43	7 2	0 26	23 1	3 0	4	4 16	2 23	22 54	0 26	22 27	1 1	14 40	8 18	23 9	23 9	13 53	17 57	5 27
S 16	23 22	15 37 4	1 2 2	21 31	0 25	16 49	1 42	7 12	0 27	23 1	3 0	4	4 17	2 23	22 54	0 26	22 27	1 1	14 40	8 18	23 9	23 9	13 55	17 57	5 27
M17	23 25	18 50 3	3 15 2	21 51	0 17	17 9	1 40	7 23	0 29	23 1	4 0	3	4 18	2 23	22 53	0 26	22 27	1 1	14 40	8 18	23 9	23 8	13 57	17 57	5 27
T 18	23 26	21 16 2	2 18 2	22 10	0 10	17 28	1 38	7 33	0 30	23 1	5 0	3	4 20	2 24	22 53	0 26	22 27	1 1	14 40	8 18	23	23 8	13 59	17 57	5 27
W19	23 28		15 2		0 3		1 37	7 43		23 1		-	4 21		22 52		22 27		14 40	8 18		23 8		17 57	
T 20	23 29			22 46	0s 4		1 35	7 54		23 1		-	4 22		22 52		22 27		14 40	8 18		23 8		17 57	5 27
F 21	23 29		s 3 2		0 11		1 33	8 4		23 1		-	4 23		22 52		22 27		14 40	8 18		23 7		17 57	5 27
S 22	23 29		2 10 2			18 42	1 31	8 15		23 1		3	4 25		22 51		22 27	1 1	14 40	8 18				17 57	5 28
S 23	23 28		3 12 2		0 25		1 29	8 26		23 1		-	4 26		22 51		22 27		14 40	8 18		23 7	-	17 57	
M24		13 30 4		23 45	0 32		1 27	8 37		23 1			4 27		22 50		22 27	1 1	-	8 18		23 7		17 57	
T 25	23 26		45 2		0 38		1 25	8 47	0 41	_			4 28		22 50		22 27	1 1	-	8 18		23 6		17 57	5 28
W26 T 27	23 24 23 21	3 37 5 1 s49 5	5 9 2 5 16 2		0 45 0 51		1 23 1 21	8 58 9 9		23 1 23 1			4 29 4 30		22 49 22 49		22 27 22 26	1 1	-	8 17 8 17		23 6		17 58 17 58	5 28 5 28
F 28	23 18	7 12 5		24 17		20 4 20 18	1 19	9 9 9 9		23 1			4 30		22 49		22 26		14 40	8 17			14 17		5 28
S 29			1 34 2			20 13	1 16	9 31		23 2			4 32		22 48		22 26		14 40	8 17				17 58	
S 30	23 11	16 43 3	3 47 2	24 37	1 8	20 46	1 14	9 42	0 47	23 2	1 0	2	4 32	2 27	22 48	0 26	22 26	1 1	14 40	8 17	23 9	23 5	14 23	17 57	5 29
M31	23 s 7	20 s12 2	2 s45 2	24 s41		20 s 5 9	1n12	9n53	0n48	23n2	1 0	s 1	4 s 3 3		22 s47		22 s26		14n40		23 s 9	23 s 5			

 $\label{eq:Julian Day Number = 2326601.5, Delta T = 37.81 sec} \\ Ecliptic obliquity = 23°29'00, Nutation = 0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°57'56, Lahiri = 19°04'56Greg. Calendar \\ \\$