

Astrodienst Ephemeris Tables for the year 2109

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 2109 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	В	₽.	v	Ç	k _O	Day
T 1	6 42 15	10る25'00	5ਰ 3	8°R28	26 × 129	15≈36	21°R10	29 ට 21	24°R52	6 ₽ 59	11°R 7	26°R14	26 Mp 53	18 Y 24	15≈39	T 1
W 2	6 46 11	11°26'10	18°47	7중 8	27°44	16°23	2199 2	29°28	24850	7° 0	118 6	26 mg 1	26°50	18°31	15°43	W 2
T 3	6 50 8	12°27'20	2≈11	5°52	29° 0	17°10	20°54	29°35	24°49	7° 0	11° 6	25°50	26°46	18°38	15°47	T 3
F 4	6 54 4	13°28'31	15°14	4°42	0 궁 15	17°57	20°46	29°42	24°47	7° 0	11° 5	25°41	26°43	18°44	15°51	F 4
S 5	6 58 1	14°29'41	27°56	3°41	1°31	18°45	20°38	29°49	24°46	7° 0	11° 5	25°35	26°40	18°51	15°55	S 5
S 6	7 1 57	15°30'51	10 ∺ 18	2°49	2°46	19°32	20°30	29°56	24°44	7° 0	11° 5	25°32	26°37	18°57	15°59	S 6
M 7	7 5 54	16°32'00	22°25	2° 6	4° 1	20°19	20°22	0≈ 3	24°43	7° 0	11° 4	25°D31	26°34	19° 4	16° 3	M 7
T 8	7 9 50	17°33'10	4Υ 20	1°34	5°17	21° 6	20°14	0°10	24°42	7°R 0	11° 4	25°31	26°30	19°11	16° 7	T 8
W 9	7 13 47	18°34'18	16° 9	1°12	6°32	21°53	20° 6	0°17	24°41	7° 0	11° 3	25°R31	26°27	19°17	16°12	W 9
T 10	7 17 44	19°35'27	27°57	1° 0	7°48	22°41	19°58	0°24	24°40	7° 0	11° 3	25°31	26°24	19°24	16°16	T 10
F 11	7 21 40	20°36'35	9 8 50	0°D57	9° 3	23°28	19°50	0°31	24°38	7° 0	11° 3	25°29	26°21	19°31	16°20	F 11
S 12	7 25 37	21°37'43	21°54	1° 2	10°18	24°15	19°42	0°38	24°37	7° 0	11° 3	25°24	26°18	19°37	16°24	S 12
S 13	7 29 33	22°38'50	4 Ⅱ 11	1°16	11°34	25° 2	19°34	0°45	24°36	7° 0	11° 2	25°17	26°15	19°44	16°29	S 13
M14	7 33 30	23°39'57	16°47	1°37	12°49	25°49	19°25	0°52	24°35	7° 0	11° 2	25° 8	26°11	19°51	16°33	M14
T 15	7 37 26	24°41'03	29°42	2° 5	14° 4	26°37	19°17	1° 0	24°35	6°59	11° 2	24°58	26° 8	19°57	16°37	T 15
W16	7 41 23	25°42'09	129556	2°39	15°20	27°24	19° 9	1° 7	24°34	6°59	11° 2	24°47	26° 5	20° 4	16°42	W16
T 17	7 45 19	26°43'14	26°29	3°18	16°35	28°11	19° 1	1°14	24°33	6°59	11° 1	24°36	26° 2	20°11	16°46	T 17
F 18	7 49 16	27°44'19	10 Ω 18	4° 2	17°51	28°58	18°53	1°21	24°32	6°59	11° 1	24°28	25°59	20°17	16°51	F 18
S 19	7 53 13	28°45'23	24°18	4°51	19° 6	29°46	18°46	1°28	24°31	6°58	11° 1	24°22	25°55	20°24	16°55	S 19
S 20	7 57 9	29°46'27	8 m 26	5°43	20°21	0 ∺ 33	18°38	1°35	24°31	6°58	11° 1	24°18	25°52	20°31	16°59	S 20
M21	8 1 6	0≈47'31	22°37	6°40	21°37	1°20	18°30	1°42	24°30	6°57	11° 1	24°D17	25°49	20°37	17° 4	M21
T 22	8 5 2	1°48'34	6 ≏ 49	7°39	22°52	2° 7	18°22	1°49	24°30	6°57	11° 1	24°17	25°46	20°44	17° 8	T 22
W23	8 8 59	2°49'37	20°59	8°41	24° 7	2°54	18°15	1°57	24°29	6°57	11° 1	24°19	25°43	20°51	17°13	W23
T 24	8 12 55	3°50'39	5 M 6	9°46	25°23	3°42	18° 7	2° 4	24°29	6°56	11° 1	24°R19	25°40	20°57	17°17	T 24
F 25	8 16 52	4°51'42	19° 9	10°54	26°38	4°29	18° 0	2°11	24°28	6°55	11°D 1	24°18	25°36	21° 4	17°22	F 25
S 26	8 20 48	5°52'43	3 ₹ 6	12° 3	27°54	5°16	17°52	2°18	24°28	6°55	11° 1	24°15	25°33	21°11	17°26	S 26
S 27	8 24 45	6°53'45	16°57	13°14	29° 9	6° 3	17°45	2°25	24°27	6°54	11° 1	24°10	25°30	21°17	17°31	S 27
M28	8 28 42	7°54'45	0 궁 39	14°28	0≈24	6°50	17°38	2°32	24°27	6°54	11° 1	24° 3	25°27	21°24	17°36	M28
T 29	8 32 38	8°55'46	14°11	15°43	1°40	7°37	17°31	2°39	24°27	6°53	11° 1	23°55	25°24	21°31	17°40	T 29
W30	8 36 35	9°56'45	27°29	16°59	2°55	8°25	17°24	2°47	24°27	6°52	11° 1	23°46	25°21	21°37	17°45	W30
T 31	8 40 31	10≈57'43	10≈33	18 궁 17	4≈10	9 ∺ 12	179517	2≈54	24 8 27	6 ₽ 51	118 1	23 m 39	25 m 17	21 Y 44	17 ≈ 49	T 31

Day	0	D		ರ	ç)	d	7	2	+	ħ	<u> </u>)	ł(并		Р	n	U	Ç	ķ	
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	i	decl lat	decl	decl	decl	decl	lat
T 1 W 2	23 s 1 22 56		58 20 s30 38 20 22		23 s 7 23 11	0n16 0 14	17 s16 17 1		21n58 21 59		20 s32 20 30		18n44 18 44			n24 24	0s22 16s17 0 22 16 17	1n30 1 35	1n14 1 16	5n28 5 29	10s 7 10 6	6n18 6 17
T 3 F 4 S 5	22 50 22 44 22 38	13 7 3		3 8	23 14 23 17 23 19	0 9	16 47 16 32 16 17	1 9	22 1 22 2 22 3	0 13	20 29 20 28 20 26	0 16	18 43 18 43 18 43	0 15	1 30 1	24 24 24	0 22 16 17 0 22 16 16 0 22 16 16	1 39 1 43 1 45	1 17 1 18 1 19	5 31 5 33 5 35	10 4	6 17 6 17 6 17
S 6 M 7 T 8	22 31 22 24 22 16	6 28 1 2 2 45 0	20 20 9 17 20 10 47 20 13	3 14 3 14	23 20 23 21 23 20 23 20	0 4 0 1	16 2 15 46 15 31	1 8 1 8	22 5 22 6 22 7	0 13 0 13	20 25 20 23 20 22	0 16 0 16	18 42 18 42 18 42	0 14 0 14	1 30 1 1 30 1	24 24 24	0 21 16 16 0 21 16 15 0 21 16 15		1 21 1 22 1 23	5 36 5 38 5 40	10 2 10 1	6 16 6 16 6 16
W 9 T 10 F 11 S 12	22 8 22 0 21 51 21 41	11 22 3 3	48 20 16 44 20 21 34 20 28 14 20 35	3 4 2 58		0 6 0 9	15 15 14 59 14 43 14 27	1 6 1 6	22 9 22 10 22 11 22 13	0 14 0 14	20 20 20 19 20 18 20 16	0 16 0 16	18 42 18 41 18 41 18 41	0 14 0 14 0 14 0 14	1 29 1 1 29 1	24 24 24 24 24	0 21 16 15 0 21 16 14 0 20 16 14 0 20 16 14	1 47 1 47 1 48 1 49	1 25 1 26 1 27 1 28	5 42 5 43 5 45 5 47	9 59 9 58 9 57 9 56	6 16 6 16 6 15 6 15
S 13 M14 T 15 W16 T 17 F 18 S 19	21 21 21 10 20 59	17 46 5 18 22 5 18 0 4 4 16 36 4 1 14 14 3 3		2 34 2 25 2 16 2 7 1 57	23 4 22 59 22 53	0 18 0 21 0 23 0 25	14 11 13 55 13 38 13 22 13 5 12 48 12 31	1 2	22 15 22 16	0 14 0 14	20 7	0 17 0 17 0 17 0 17 0 17	18 41 18 40 18 40 18 40 18 40 18 40 18 39	0 14 0 14 0 14 0 14	1 29 1 1 29 1 1 29 1 1 29 1 1 28 1	24 24 24 24 24 25 25	0 20 16 13 0 20 16 13 0 19 16 13 0 19 16 12 0 19 16 12 0 18 16 12 0 18 16 11	1 52 1 56 2 0 2 4 2 8 2 12 2 14	1 30 1 31 1 32 1 33 1 35 1 36 1 37	5 49 5 50 5 52 5 54 5 56 5 57 5 59	9 55 9 54 9 53 9 52 9 51 9 49 9 48	6 15 6 15 6 15 6 14 6 14 6 14
S 20 M21 T 22 W23 T 24 F 25 S 26	20 11 19 58 19 45 19 31 19 17 19 2 18 47	2 47 0 1 s41 1n 6 2 2 10 2 3 2 13 27 4	19 22 1	1 27 1 18 1 8 0 58 0 49	22 3	0 32 0 35 0 37 0 39 0 41	12 14 11 56 11 39 11 22 11 4 10 46 10 29	1 1 1 0 1 0 0 59 0 59	22 23 22 24 22 25 22 26 22 27 22 28 22 30	0 16	20 3 20 1	0 17 0 17 0 17 0 17 0 17	18 39 18 39 18 39 18 39 18 39 18 39	0 14 0 14 0 14 0 14 0 14	1 28 1 1 28 1 1 27 1 1 27 1 1 27 1	25 25 25 25 25 25 25 25 25 25	0 18 16 11 0 18 16 11 0 17 16 10 0 17 16 10 0 17 16 10 0 16 16 9 0 16 16 9	2 16 2 16 2 16 2 16 2 15 2 15 2 16 2 17	1 38 1 40 1 41 1 42 1 43 1 45 1 46	6 1 6 3 6 4 6 6 6 8 6 10 6 11	9 47 9 46 9 45 9 44 9 42 9 41 9 40	6 14 6 14 6 14 6 13 6 13 6 13 6 13
S 27 M28 T 29 W30 T 31	18 17 18 1 17 45	18 19 5 17 52 4 4 16 27 4	6 22 16 6 22 17 49 22 18 17 22 17 32 22 s15	0 21 0 12 0 4	_	0 45 0 47 0 49 0 51 0s53	10 11 9 53 9 35 9 17 8 s 5 8	0 57 0 57 0 56	22 31 22 32 22 33 22 34 22n35	0 16 0 16 0 16	19 53 19 52 19 50 19 49 19 847	0 18 0 18 0 18	18 39 18 39 18 39 18 39 18n39	0 14 0 14 0 14	1 26 1 1 26 1 1 25 1	25 25 25 25 25 125	0 16 16 9 0 15 16 8 0 15 16 8 0 15 16 7 0s14 16s 7	2 19 2 22 2 25 2 28 2n31	1 47 1 48 1 50 1 51 1n52	6 13 6 15 6 16 6 18 6n20	9 35	6 13 6 13 6 13 6 13 6n13

Julian Day Number = 2491356.5, Delta T = 97.51 sec Ecliptic obliquity = $23^{\circ}25'20$, Nutation = - $0^{\circ}00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}15'48$, Lahiri = $25^{\circ}22'48$

FEBRUARY 2109 00:00 UT

Day	Sid.t	0	D	Ϋ́	φ	ð	4	ħ)∤(,	В	u	v	Ç	ķ	Day
F 1	8 44 28	11≈58'41	23≈20	19 る 36	5≈26	9 米 59	17°R10	3≈ 1	24°D27	6°R51	118 1	23°R33	25 Mp 14	21 Y 51	17≈54	F 1
S 2	8 48 24	12°59'37	5 ¥ 52	20°57	6°41	10°46	1795 3	3° 8	24 8 27	6 ₽ 50	11° 2	23 Mp 30	25°11	21°57	17°58	S 2
S 3	8 52 21	14° 0'33	18° 9	22°18	7°56	11°33	16°57	3°15	24°27	6°49	11° 2	23°D28	25° 8	22° 4	18° 3	S 3
M 4	8 56 17	15° 1'27	0 Υ 13	23°41	9°12	12°20	16°50	3°22	24°27	6°48	11° 2	23°28	25° 5	22°11	18° 8	M 4
T 5	9 0 14	16° 2'20	12° 7	25° 5	10°27	13° 7	16°44	3°29	24°27	6°47	11° 2	23°29	25° 1	22°17	18°12	T 5
W 6	9 4 11	17° 3'11	23°57	26°30	11°42	13°54	16°38	3°36	24°27	6°46	11° 2	23°31	24°58	22°24	18°17	W 6
T 7	9 8 7	18° 4'01	5 8 45	27°55	12°58	14°41	16°32	3°43	24°28	6°45	11° 3	23°33	24°55	22°31	18°21	T 7
F 8	9 12 4	19° 4'50	17°38	29°22	14°13	15°28	16°26	3°50	24°28	6°45	11° 3	23°R34	24°52	22°37	18°26	F 8
S 9	9 16 0	20° 5'37	29°41	0≈50	15°28	16°15	16°21	3°57	24°28	6°44	11° 3	23°33	24°49	22°44	18°31	S 9
S 10	9 19 57	21° 6'23	11 II 57	2°18	16°43	17° 2	16°15	4° 4	24°29	6°42	11° 4	23°31	24°46	22°51	18°35	S 10
M11	9 23 53	22° 7'07	24°33	3°48	17°59	17°49	16°10	4°11	24°29	6°41	11° 4	23°28	24°42	22°57	18°40	M11
T 12	9 27 50	23° 7'50	7 95 31	5°18	19°14	18°36	16° 5	4°18	24°30	6°40	11° 5	23°23	24°39	23° 4	18°44	T 12
W13	9 31 46	24° 8'31	20°52	6°49	20°29	19°23	16° 0	4°25	24°30	6°39	11° 5	23°18	24°36	23°11	18°49	W13
T 14	9 35 43	25° 9'11	4Ω 37	8°21	21°44	20°10	15°55	4°32	24°31	6°38	11° 5	23°14	24°33	23°17	18°53	T 14
F 15	9 39 40	26° 9'49	18°44	9°54	22°59	20°56	15°50	4°38	24°32	6°37	11° 6	23°10	24°30	23°24	18°58	F 15
S 16	9 43 36	27°10'26	3 Mp 7	11°28	24°15	21°43	15°46	4°45	24°33	6°36	11° 6	23° 8	24°27	23°31	19° 3	S 16
S 17	9 47 33	28°11'01	17°42	13° 2	25°30	22°30	15°41	4°52	24°33	6°35	11° 7	23°D 6	24°23	23°37	19° 7	S 17
M18	9 51 29	29°11'35	2 ≏ 22	14°38	26°45	23°17	15°37	4°59	24°34	6°33	11° 7	23° 7	24°20	23°44	19°12	M18
T 19	9 55 26	0) € 12'08	17° 0	16°14	28° 0	24° 3	15°33	5° 5	24°35	6°32	11° 8	23° 8	24°17	23°50	19°16	T 19
W20	9 59 22	1°12'39	1 M 31	17°51	29°15	24°50	15°29	5°12	24°36	6°31	11° 8	23° 9	24°14	23°57	19°21	W20
T 21	10 3 19	2°13'10	15°52	19°29	0 ∺ 30	25°37	15°26	5°19	24°37	6°30	11° 9	23°10	24°11	24° 4	19°25	T 21
F 22	10 7 15	3°13'39	29°59	21° 9	1°46	26°23	15°22	5°25	24°38	6°28	11°10	23°R11	24° 7	24°10	19°30	F 22
S 23	10 11 12	4°14'06	13 ∡ 52	22°49	3° 1	27°10	15°19	5°32	24°39	6°27	11°10	23°11	24° 4	24°17	19°34	S 23
S 24	10 15 9	5°14'33	27°29	24°29	4°16	27°56	15°16	5°38	24°40	6°26	11°11	23°10	24° 1	24°24	19°39	S 24
M25	10 19 5	6°14'58	10 ට 51	26°11	5°31	28°43	15°13	5°45	24°42	6°24	11°11	23° 8	23°58	24°30	19°43	M25
T 26	10 23 2	7°15'22	23°59	27°54	6°46	29°30	15°11	5°51	24°43	6°23	11°12	23° 5	23°55	24°37	19°48	T 26
W27	10 26 58	8°15'44	6≈53	29°38	8° 1	0 Υ 16	15° 8	5°58	24°44	6°21	11°13	23° 3	23°52	24°44	19°52	W27
T 28	10 30 55	9) 16'05	19 ≈ 34	1 ∺ 23	9) 16	1 Υ 2	1595 6	6≈ 4	24846	6 ₽ 20	11814	23 mg 1	23 m 48	24 Y 50	19≈56	T 28

Day	0)		ğ	ç)	ď	7	2	+	ħ).)	ł(1 4		В	n	Ω	Ç	ķ	
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl l	at	decl lat	decl	decl	decl	decl	at
F 1 S 2	17s11 16 54		6 22 s13 4 22 9		19 s47 19 30	0s55 0 57	8 s40 8 22		22n36 22 37	0n17 0 17	19 s46 19 44		18n39 18 39		1 s25 1 24	1n25 1 25	0s14 16s 7 0 13 16 6	2n33 2 35	1n53 1 55	6n22 6 23		6n12 6 12
S 3 M 4 T 5 W 6 T 7 F 8 S 9 S 10 M11 T 12 W13 T 14 F 15	16 37 16 19 16 1 15 43 15 24 15 6 14 46 14 27 14 8 13 48 13 28 13 8 12 47	0 29 0 s2 3n15 1 4 6 49 2 3 10 7 3 3 1 1 4 1 15 24 4 4 4 17 8 5 18 6 5 1 18 9 5 17 14 4 3 15 17 3 5	9 22 3 7 21 57 0 21 49 9 21 40 1 21 30 4 21 19 6 21 6 7 20 52 3 20 37 4 20 21 8 20 3 55 19 44 8 19 23	0 37 0 44 0 51 0 58 1 4 1 10 1 16 1 22 1 27 1 33 1 37	7 18 55 18 36 18 17 57 17 37 17 16 16 16 55 2 16 33 7 16 11 8 15 49 7 15 26	0 58 1 0 1 2 1 3 1 5 1 7 1 8 1 10 1 11 1 12 1 13 1 15 1 16	8 3 7 45 7 26 7 8 6 49 6 30 6 12 5 53 5 34 5 15 4 56 4 37 4 18	0 53 0 53 0 52 0 51 0 50 0 50 0 49 0 49 0 48 0 47	22 38 22 38 22 39 22 40 22 41 22 42 22 43 22 44 22 45 22 45 22 46 22 47	0 17 0 17 0 17 0 17 0 17 0 17 0 17 0 18 0 18 0 18 0 18	19 43 19 41 19 39 19 38 19 36 19 35 19 32 19 30 19 28 19 27 19 25 19 24	0 18 0 18 0 18 0 18 0 19 0 19 0 19 0 19 0 19 0 19		0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14	1 24 1 24 1 23 1 23 1 22 1 22 1 21 1 21 1 20 1 20 1 19 1 19	1 25 1 25 1 25 1 25 1 26 1 26 1 26 1 26 1 26 1 26 1 26 1 26	0 13 16 6 0 13 16 6 0 12 16 5 0 11 16 5 0 11 16 6 0 11 16 6 0 10 16 6 3 0 9 16 6 3 0 8 16 2 0	2 35 2 35 2 34 2 34 2 34 2 34 2 36 2 37 2 39 2 2 41	1 56 1 57 1 59 2 0 2 1 2 2 2 4 2 5 2 6 2 7 2 9 2 10 2 11	6 25 6 27 6 29 6 30 6 32 6 34 6 36 6 37 6 39 6 41 6 42 6 44 6 46	9 28 9 27 9 26 9 24 9 23 9 22 9 20 9 19 9 18 9 16 9 15	6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12
S 16 S 17 M18 T 19 W20 T 21 F 22 S 23 S 24 M25 T 26 W27 T 28	10 19 9 57 9 35 9 13 8 50	4 24 0 3 0 810 0 nd 4 42 2 8 55 3 1 12 34 4 1 15 24 4 5 17 17 5 1 18 9 5 16 50 4 3 14 51 3 4	8 17 49 6 17 22 2 16 53 1 16 24 2 15 53 5 15 20 1 14 47	1 50 1 53 1 56 2 1 59 2 2 2 4 2 5 2 7 2 7 2 8 2 2 8	3 13 50 5 13 25 7 12 59 2 12 33 8 12 7 5 11 41 7 10 47 8 10 20 8 9 52	1 17 1 18 1 19 1 20 1 21 1 22 1 22 1 23 1 24 1 24 1 25 1 25 1 s25	3 59 3 40 3 21 3 2 2 43 2 24 2 5 1 46 1 27 1 8 0 49 0 30 0 \$11	0 45 0 45 0 44 0 44 0 43 0 42 0 42 0 41 0 40 0 39	22 47 22 48 22 49 22 50 22 50 22 51 22 51 22 51 22 52 22 52 22 53 22 53	0 18 0 18 0 18 0 18 0 18 0 19 0 19 0 19 0 19 0 19	19 7	0 19 0 19 0 19 0 19 0 20 0 20 0 20 0 20 0 20 0 20	18 41 18 42 18 42 18 42 18 42	0 14 0 14 0 14 0 14 0 13 0 13 0 13 0 13 0 13	1 18 1 17 1 17 1 16 1 16 1 15 1 14 1 14	1 26 1 26 1 26 1 26 1 26 1 26 1 26 1 26	0 7 16 2 0 7 16 1 0 6 16 1 0 6 16 0 0 5 16 0 0 5 16 0 0 4 15 59 0 3 15 59 0 3 15 58 0 2 15 58 0 2 2 15 58	2 44 2 44 2 43 2 2 43 2 2 42 2 2 42 2 2 43 2 2 44 3 2 44 4 2 2 45	2 12 2 14 2 15 2 16 2 17 2 19 2 20 2 21 2 22 2 24 2 25 2 26 2 27	6 48 6 49 6 51 6 53 6 55 6 56 6 58 7 0 7 1 7 3 7 5 7 7 8	9 11 9 9 9 8 9 7 9 5 9 4 9 2 9 1 8 59 8 58 8 57	6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12

Julian Day Number = 2491387.5, Delta T = 97.55 sec Ecliptic obliquity = $23^{\circ}25'21$, Nutation = $0^{\circ}00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}15'52$, Lahiri = $25^{\circ}22'52$

MARCH 2109 00:00 UT

Day	Sid.t	0)	ğ	φ	ð	4	ħ)∤(,	В	S.	v	Ç	ķ	Day
F 1	10 34 51	10) 16'24	2) 2	3 ∺ 9	10) (31	1 Υ 49	15°R 4	6≈11	24847	6°R19	11814	23°R 0	23 m/45	24 Y 57	20≈ 1	F 1
S 2	10 38 48	11°16'41	14°19	4°55	11°46	2°35	1595 2	6°17	24°48	6 ₽ 17	11°15	22 m 59	23°42	25° 4	20° 5	S 2
S 3	10 42 44	12°16'56	26°25	6°43	13° 1	3°22	15° 0	6°23	24°50	6°16	11°16	22°D59	23°39	25°10	20° 9	S 3
M 4	10 46 41	13°17'10	8 Ƴ 23	8°32	14°16	4° 8	14°59	6°29	24°51	6°14	11°17	22°59	23°36	25°17	20°14	M 4
T 5	10 50 37	14°17'22	20°15	10°22	15°31	4°54	14°58	6°36	24°53	6°13	11°17	23° 0	23°32	25°24	20°18	T 5
W 6	10 54 34	15°17'32	2 8 4	12°13	16°46	5°40	14°56	6°42	24°55	6°11	11°18	23° 1	23°29	25°30	20°22	W 6
T 7	10 58 31	16°17'40	13°53	14° 5	18° 1	6°27	14°56	6°48	24°56	6°10	11°19	23° 2	23°26	25°37	20°27	T 7
F 8	11 2 27	17°17'45	25°46	15°58	19°16	7°13	14°55	6°54	24°58	6°8	11°20	23° 2	23°23	25°44	20°31	F 8
S 9	11 6 24	18°17'49	7∏47	17°52	20°31	7°59	14°54	7° 0	25° 0	6° 7	11°21	23° 3	23°20	25°50	20°35	S 9
S 10	11 10 20	19°17'51	20° 1	19°47	21°46	8°45	14°54	7° 6	25° 2	6° 5	11°22	23°R 3	23°17	25°57	20°39	S 10
M11	11 14 17	20°17'50	2933	21°42	23° 1	9°31	14°D54	7°12	25° 4	6° 3	11°23	23° 3	23°13	26° 4	20°43	M11
T 12	11 18 13	21°17'48	15°26	23°39	24°16	10°17	14°54	7°17	25° 6	6° 2	11°23	23° 2	23°10	26°10	20°47	T 12
W13	11 22 10	22°17'43	28°43	25°36	25°31	11° 3	14°54	7°23	25° 7	6° 0	11°24	23° 2	23° 7	26°17	20°51	W13
T 14	11 26 6	23°17'36	12 \O 28	27°34	26°45	11°49	14°55	7°29	25° 9	5°59	11°25	23°D 2	23° 4	26°24	20°55	T 14
F 15	11 30 3	24°17'27	26°38	29°32	28° 0	12°35	14°56	7°35	25°12	5°57	11°26	23° 2	23° 1	26°30	20°59	F 15
S 16	11 34 0	25°17'15	11 m) 12	1 Y 31	29°15	13°21	14°57	7°40	25°14	5°55	11°27	23° 2	22°58	26°37	21° 3	S 16
S 17	11 37 56	26°17'02	26° 3	3°29	0 Υ 30	14° 6	14°58	7°46	25°16	5°54	11°28	23°R 2	22°54	26°44	21° 7	S 17
M18	11 41 53	27°16'46	11 ♀ 5	5°28	1°44	14°52	14°59	7°51	25°18	5°52	11°29	23° 2	22°51	26°50	21°11	M18
T 19	11 45 49	28°16'29	26° 9	7°26	2°59	15°38	15° 0	7°57	25°20	5°51	11°30	23° 2	22°48	26°57	21°15	T 19
W20	11 49 46	29°16'10	11 M 5	9°23	4°14	16°24	15° 2	8° 2	25°22	5°49	11°31	23° 1	22°45	27° 4	21°19	W20
T 21	11 53 42	0 ℃ 15'49	25°47	11°20	5°29	17° 9	15° 4	8° 7	25°25	5°47	11°32	23° 1	22°42	27°10	21°23	T 21
F 22	11 57 39	1°15'27	10 才 10	13°15	6°43	17°55	15° 6	8°12	25°27	5°46	11°34	23° 0	22°38	27°17	21°27	F 22
S 23	12 1 35	2°15'03	24°10	15° 8	7°58	18°40	15° 8	8°18	25°29	5°44	11°35	22°59	22°35	27°24	21°30	S 23
S 24	12 5 32	3°14'37	7 云 47	16°59	9°12	19°26	15°10	8°23	25°32	5°42	11°36	22°D59	22°32	27°30	21°34	S 24
M25	12 9 29	4°14'10	21° 1	18°48	10°27	20°11	15°13	8°28	25°34	5°41	11°37	23° 0	22°29	27°37	21°38	M25
T 26	12 13 25	5°13'40	3≈56	20°33	11°42	20°57	15°16	8°33	25°37	5°39	11°38	23° 1	22°26	27°44	21°41	T 26
W27	12 17 22	6°13'09	16°33	22°15	12°56	21°42	15°19	8°38	25°39	5°37	11°39	23° 2	22°23	27°50	21°45	W27
T 28	12 21 18	7°12'36	28°57	23°54	14°11	22°27	15°22	8°42	25°42	5°36	11°40	23° 3	22°19	27°57	21°48	T 28
F 29	12 25 15	8°12'01	11) 9	25°27	15°25	23°13	15°25	8°47	25°44	5°34	11°41	23° 4	22°16	28° 4	21°52	F 29
S 30	12 29 11	9°11'25	23°12	26°56	16°40	23°58	15°29	8°52	25°47	5°32	11°43	23°R 4	22°13	28°11	21°55	S 30
S 31	12 33 8	10 Y 10'46	5 Υ 8	28 Y 20	17 Y 54	24 Y 43	15932	8≈56	25 8 50	5 ≏ 31	11844	23 Mp 4	22 Mp 10	28 Y 17	21≈59	S 31

Day	0	D	ğ	Q	♂	4	ħ)Å(并	Р	y (S Č	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl d	ecl decl	decl lat
F 1 S 2	7 s43 7 20		12s19 2s 7 11 39 2 5	8 s 5 6 1 s 2 6 8 2 8 1 2 6		22n53 0n19 22 54 0 19			1s11 1n26 1 10 1 26	0s 1 15s57 0 1 15 57		7n10 30 7 12	8 s 5 4 6 n 1 3 8 5 2 6 1 3
S 3 M 4 T 5 W 6 T 7	6 57 6 34 6 11 5 48 5 24	1 43 0s19 2n 2 1 25 5 39 2 26 9 3 3 21 12 4 4 7	10 14 2 1 9 30 1 59 8 45 1 55 7 59 1 52	7 31 1 26 7 2 1 26 6 33 1 26 6 3 1 26	1 5 0 36 1 24 0 35 1 43 0 35 2 2 0 34	22 54 0 19 22 54 0 19 22 54 0 19 22 54 0 19 22 55 0 19 22 55 0 19	18 58 0 20 18 57 0 21 18 55 0 21 18 54 0 21	18 46 0 13 18 46 0 13 18 46 0 13	1 9 1 26 1 9 1 26 1 8 1 26 1 7 1 26	0 0 15 57 0n 0 15 56 0 1 15 56 0 1 15 56 0 2 15 56	2 47 2 2 47 2 2 46 2 2 46 2	31 7 13 33 7 15 34 7 17 35 7 19 36 7 20	8 51 6 13 8 49 6 13 8 48 6 13 8 46 6 13 8 45 6 14
F 8 S 9 S 10	4 37	14 36 4 43 16 33 5 7	7 11 1 47 6 22 1 43 5 32 1 37	5 4 1 26	2 40 0 33		18 52 0 21 18 51 0 21 18 49 0 21	18 47 0 13 18 47 0 13 18 48 0 13	1 6 1 27	0 2 15 55 0 3 15 55 0 4 15 55	2 46 2	38 7 22 39 7 24 40 7 25	8 44 6 14 8 42 6 14 8 41 6 14
M11 T 12 W13 T 14 F 15 S 16	3 50 3 27 3 3 2 40	18 10 5 14 17 40 4 54 16 11 4 18 13 44 3 27	4 41 1 31 3 49 1 25 2 56 1 18 2 2 1 10 1 8 1 2	4 5 1 25 3 35 1 25 3 4 1 24 2 34 1 24 2 2 4 1 23	3 17 0 31 3 36 0 31 3 55 0 30 4 13 0 29 4 32 0 29		18 48 0 21 18 47 0 21 18 45 0 21 18 44 0 21 18 43 0 22	18 48 0 13 18 49 0 13 18 49 0 13 18 50 0 13 18 50 0 13	1 5 1 27 1 4 1 27 1 3 1 27 1 3 1 27 1 2 1 27	0 4 15 55 0 4 15 55 0 5 15 54 0 5 15 54 0 6 15 54 0 6 15 53 0 7 15 53	2 46 2 2 46 2 2 46 2 2 46 2 2 46 2		8 41 6 14 8 39 6 14 8 38 6 14 8 36 6 15 8 35 6 15 8 34 6 15 8 32 6 15
S 17 M18 T 19 W20 T 21 F 22 S 23	0n 6	1 49 0n17 2s52 1 39 7 23 2 54 11 24 3 57 14 37 4 43 16 51 5 10 18 0 5 17	0n43	0 33 1 21 0 2 1 20 0 0028 1 19 0 59 1 18 1 29 1 17	5 27 0 27 5 45 0 26 6 3 0 25 6 21 0 25 6 39 0 24	22 55 0 20 22 54 0 20 22 54 0 20 22 54 0 20	18 39 0 22 18 37 0 22 18 36 0 22 18 35 0 22 18 34 0 22	18 52 0 13 18 52 0 13 18 53 0 13 18 54 0 13	1 1 1 27 1 0 1 27 0 59 1 27 0 59 1 27 0 58 1 27 0 58 1 27 0 57 1 27	0 7 15 53 0 8 15 53 0 8 15 52 0 9 15 52 0 9 15 52 0 10 15 52 0 10 15 52	2 46 2 2 46 2 2 46 2 2 46 2 2 47 2	49 7 37 50 7 39 51 7 41 53 7 42 54 7 44 55 7 46 56 7 47	8 31 6 15 8 29 6 15 8 28 6 16 8 27 6 16 8 25 6 16 8 24 6 16 8 22 6 17
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	1 41 2 5	17 10 4 40 15 22 4 0 12 51 3 9 9 48 2 10 6 22 1 6 2 43 0s 1	8 4 0 46 8 55 0 58 9 45 1 10 10 33 1 23 11 18 1 35	3 0 1 14 3 30 1 13 4 1 1 11 4 31 1 10 5 1 1 9 5 5 31 1 7	7 33 0 22 7 50 0 21 8 8 0 21 8 25 0 20 8 43 0 19 9 0 0 19	22 53 0 21 22 52 0 21 22 52 0 21	18 30 0 23 18 29 0 23 18 27 0 23 18 26 0 23 18 25 0 23 18 24 0 23	18 56 0 13 18 56 0 13 18 57 0 13	0 56 1 27 0 56 1 27 0 55 1 27 0 54 1 27 0 54 1 27 0 53 1 27 0 52 1 27 0 s52 1n27	0 11 15 51 0 11 15 51 0 12 15 51 0 12 15 51 0 13 15 50 0 14 15 50 0 14 15 50 0n15 15s50	2 47 2 2 46 3 2 46 3 2 45 3 2 45 3 2 45 3	58 7 49 59 7 51 0 7 53 1 7 54 3 7 56 4 7 58 5 7 59 1 6 8n 1	8 21 6 17 8 20 6 17 8 18 6 17 8 17 6 17 8 16 6 18 8 14 6 18 8 13 6 18 8 812 6n19

Julian Day Number = 2491415.5, Delta T = 97.59 sec Ecliptic obliquity = $23^{\circ}25'22$, Nutation = - $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}15'56$, Lahiri = $25^{\circ}22'56$

APRIL 2109 00:00 UT

Day	Sid.t	0	D	ğ	Ş	ð	4	ħ)∤(¥	В	V	v	Ç	Ŷ,	Day
M 1	12 37 4	11 Y 10'05	17 Υ 0	29Υ39	19 Υ 9	25 Y 28	15936	9≈ 1	25 8 52	5°R29	11845	23°R 2	22 m) 7	28 Y 24	22≈ 2	M 1
T 2	12 41 1	12° 9'22	28°49	0 8 52	20°23	26°13	15°40	9° 5	25°55	5 ≙ 27	11°46	23 Mp 0	22° 4	28°31	22° 6	T 2
W 3	12 44 57	13° 8'37	10838	1°58	21°38	26°58	15°44	9°10	25°58	5°26	11°47	22°57	22° 0	28°37	22° 9	W 3
T 4	12 48 54	14° 7'50	22°29	2°59	22°52	27°43	15°49	9°14	26° 0	5°24	11°49	22°54	21°57	28°44	22°12	T 4
F 5	12 52 51	15° 7'01	4 ∏ 24	3°53	24° 7	28°28	15°53	9°18	26° 3	5°22	11°50	22°50	21°54	28°51	22°15	F 5
S 6	12 56 47	16° 6'10	16°27	4°40	25°21	29°13	15°58	9°23	26° 6	5°21	11°51	22°47	21°51	28°57	22°18	S 6
S 7	13 0 44	17° 5'16	28°41	5°21	26°35	29°58	16° 3	9°27	26° 9	5°19	11°52	22°44	21°48	29° 4	22°21	S 7
M 8	13 4 40	18° 4'20	119910	5°55	27°50	0 8 43	16° 8	9°31	26°12	5°18	11°54	22°43	21°44	29°11	22°25	M 8
T 9	13 8 37	19° 3'22	23°57	6°22	29° 4	1°28	16°13	9°35	26°15	5°16	11°55	22°D43	21°41	29°17	22°28	T 9
W10	13 12 33	20° 2'21	7 Ω 7	6°42	0 8 18	2°12	16°19	9°38	26°18	5°14	11°56	22°44	21°38	29°24	22°30	W10
T 11	13 16 30	21° 1'18	20°43	6°55	1°32	2°57	16°24	9°42	26°21	5°13	11°57	22°46	21°35	29°31	22°33	T 11
F 12	13 20 26	22° 0'13	4 m 45	7°R 2	2°47	3°42	16°30	9°46	26°24	5°11	11°59	22°47	21°32	29°37	22°36	F 12
S 13	13 24 23	22°59'06	19°13	7° 1	4° 1	4°26	16°36	9°49	26°27	5°10	12° 0	22°R48	21°29	29°44	22°39	S 13
S 14	13 28 20	23°57'56	4 º 5	6°55	5°15	5°11	16°42	9°53	26°30	5° 8	12° 1	22°47	21°25	29°51	22°42	S 14
M15	13 32 16	24°56'44	19°13	6°42	6°29	5°55	16°48	9°56	26°33	5° 7	12° 3	22°46	21°22	29°57	22°44	M15
T 16	13 36 13	25°55'31	4 M .30	6°24	7°43	6°39	16°54	10° 0	26°36	5° 5	12° 4	22°42	21°19	0 8 4	22°47	T 16
W17	13 40 9	26°54'15	19°43	6° 1	8°57	7°24	17° 1	10° 3	26°39	5° 4	12° 5	22°38	21°16	0°11	22°50	W17
T 18	13 44 6	27°52'57	4 ₹ 43	5°32	10°11	8° 8	17° 7	10° 6	26°42	5° 2	12° 6	22°32	21°13	0°17	22°52	T 18
F 19	13 48 2	28°51'38	19°23	5° 0	11°25	8°52	17°14	10° 9	26°45	5° 1	12° 8	22°28	21° 9	0°24	22°55	F 19
S 20	13 51 59	29°50'18	3 ਰ 36	4°24	12°39	9°37	17°21	10°12	26°49	4°59	12° 9	22°24	21° 6	0°31	22°57	S 20
S 21	13 55 55	0 8 48'55	17°20	3°46	13°53	10°21	17°28	10°15	26°52	4°58	12°10	22°21	21° 3	0°37	22°59	S 21
M22	13 59 52	1°47'31	0≈37	3° 5	15° 7	11° 5	17°35	10°18	26°55	4°56	12°12	22°D20	21° 0	0°44	23° 2	M22
T 23	14 3 49	2°46'05	13°29	2°24	16°21	11°49	17°42	10°21	26°58	4°55	12°13	22°21	20°57	0°51	23° 4	T 23
W24	14 7 45	3°44'38	26° 1	1°42	17°35	12°33	17°50	10°23	27° 2	4°53	12°15	22°22	20°54	0°57	23° 6	W24
T 25	14 11 42	4°43'08	8) 15	1° 0	18°49	13°17	17°57	10°26	27° 5	4°52	12°16	22°24	20°50	1° 4	23° 8	T 25
F 26	14 15 38	5°41'38	20°18	0°19	20° 3	14° 1	18° 5	10°28	27° 8	4°51	12°17	22°R24	20°47	1°11	23°10	F 26
S 27	14 19 35	6°40'05	2 Υ 12	29 Ƴ 41	21°17	14°45	18°13	10°31	27°11	4°49	12°19	22°24	20°44	1°17	23°13	S 27
S 28	14 23 31	7°38'31	14° 2	29° 4	22°31	15°28	18°21	10°33	27°15	4°48	12°20	22°21	20°41	1°24	23°14	S 28
M29	14 27 28	8°36'55	25°50	28°31	23°44	16°12	18°29	10°35	27°18	4°47	12°21	22°17	20°38	1°31	23°16	M29
T 30	14 31 24	9 8 35'17	7 8 39	28 ° 1	24 8 58	16 8 56	18937	10≈37	27821	4 Ω 45	12823	22 m 10	20m/35	1837	23≈18	T 30

Day	0	D	ğ	φ	♂	4	ħ)į	β(¥	Р	n	v	Ç	ę,
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl la	at	decl	lat	decl lat	decl lat	decl	decl	decl	decl lat
M 1	4n25	4n42 2s 9	13n20 2n 8	8 6n30 1s 4	9n34 0s17	22n51 0n2	21 18 s 22	0 s23	19n 0	0s13	0s51 1n	7 0n15 15 s5	0 2n46	3n 8	8n 3	8s10 6n19
T 2	4 48	8 10 3 5	13 56 2 18	8 7 0 1 2	9 51 0 17	22 51 0 2	21 18 21	0 23	19 1	0 13	0 50 1	7 0 16 15 4	9 2 47	3 9	8 4	8 9 6 19
W 3	5 11	11 18 3 53	14 28 2 28	8 7 29 1 1 1	0 8 0 16	22 50 0 2	21 18 20	0 23	19 2	0 13	0 50 1	7 0 16 15 4	9 2 48	3 10	8 6	8 8 6 19
T 4	5 34	14 0 4 32	14 57 2 37	7 7 58 0 59 1	0 25 0 15	22 50 0 2	21 18 19	0 24	19 2	0 13	0 49 1	7 0 17 15 4	9 2 49	3 11	8 8	8 6 6 20
F 5	5 57	16 7 4 59	15 23 2 45	5 8 27 0 57 1	0 42 0 15	22 49 0 2	21 18 18	0 24	19 3	0 13	0 48 1	7 0 17 15 4	9 2 51	3 13	8 9	8 5 6 20
S 6	6 20	17 33 5 13	15 46 2 51	1 8 56 0 55 1	0 58 0 14	22 49 0 2	21 18 17	0 24	19 4	0 13	0 48 1	7 0 18 15 4	9 2 52	3 14	8 11	8 4 6 20
S 7	6 42	18 12 5 13	16 5 2 57	7 9 25 0 54 1	1 15 0 13	22 48 0 2	21 18 16	0 24	19 4	0 13	0 47 1	7 0 18 15 4	9 2 53	3 15	8 13	8 3 6 20
M 8	7 5	18 0 4 59	16 21 3 2	2 9 53 0 52 1	1 31 0 13	22 48 0 2	21 18 15	0 24	19 5	0 13	0 46 1	7 0 19 15 4	8 2 53	3 16	8 14	8 1 6 21
T 9	7 27	16 53 4 29	16 33 3 6	6 10 22 0 50 1	1 47 0 12	22 47 0 2	21 18 14	0 24	19 6	0 13	0 46 1	7 0 19 15 4	8 2 53	3 18	8 16	8 0 6 21
W10	7 50	14 51 3 45	16 42 3 8	8 10 49 0 48 1	2 3 0 11	22 47 0 2	21 18 13	0 24	19 6	0 13	0 45 1	7 0 20 15 4	8 2 53	3 19	8 18	7 59 6 21
T 11	8 12	11 56 2 47	16 47 3 9	9 11 17 0 46 1	2 19 0 11	22 46 0 2	21 18 12	0 24	19 7	0 13	0 44 1	7 0 20 15 4	8 2 52	3 20	8 20	7 58 6 22
F 12	8 34	8 15 1 38	16 49 3 8	8 11 45 0 44 1	2 35 0 10	22 45 0 2	21 18 11	0 24	19 8	0 13	0 44 1	7 0 21 15 4	8 2 52	3 21	8 21	7 57 6 22
S 13	8 56	3 58 0 20	16 47 3	7 12 12 0 42 1	2 51 0 9	22 45 0 2	21 18 10	0 25	19 8	0 13	0 43 1	7 0 21 15 4	8 2 51	3 23	8 23	7 55 6 22
S 14	9 18	0s41 1n 2		3 12 39 0 39 1		22 44 0 2		0 25		0 13	0 43 1		-	3 24	8 25	7 54 6 23
M15	9 39	5 22 2 20	16 33 2 58	8 13 5 0 37 1	3 22 0 8	22 43 0 2	21 18 9	0 25	19 10	0 13	0 42 1	7 0 22 15 4	8 2 52	3 25	8 26	7 53 6 23
T 16	10 1	9 44 3 28	16 21 2 52	2 13 31 0 35 1	3 37 0 7	22 43 0 2	21 18 8	0 25	19 11	0 13	0 41 1	7 0 23 15 4	7 2 54	3 26	8 28	7 52 6 23
W17	10 22	13 27 4 22	16 6 2 44		3 52 0 7		21 18 7	0 25	19 11	0 13	0 41 1	7 0 23 15 4	7 2 55	3 28	8 30	7 51 6 24
T 18	10 43	16 12 4 57	15 48 2 35	5 14 23 0 31 1	4 7 0 6	22 41 0 2	22 18 6	0 25	19 12	0 13	0 40 1	7 0 24 15 4	7 2 57	3 29	8 31	7 50 6 24
F 19	11 4	17 50 5 11	15 27 2 24	4 14 48 0 28 1		22 40 0 2		0 25	19 13	0 13	0 40 1	7 0 24 15 4	7 2 59	3 30	8 33	7 48 6 24
S 20	11 24	18 17 5 6	15 3 2 12	2 15 13 0 26 1	4 36 0 5	22 39 0 2	22 18 5	0 25	19 14	0 13	0 39 1	7 0 24 15 4	7 3 1	3 31	8 35	7 47 6 25
S 21	11 45	17 37 4 43	14 38 1 59	9 15 37 0 24 1	4 51 0 4	22 38 0 2	22 18 4	0 26	19 14	0 12	0 39 1	7 0 25 15 4	7 3 2	3 33	8 36	7 46 6 25
M22	12 5	16 1 4 5	14 11 1 45	5 16 1 0 21 1	5 5 0 3	22 38 0 2	22 18 4	0 26	19 15	0 12	0 38 1	7 0 25 15 4	7 3 2	3 34	8 38	7 45 6 25
T 23	12 25	13 38 3 16	13 42 1 30	0 16 25 0 19 1	5 19 0 3	22 37 0 2	22 18 3	0 26	19 16	0 12	0 37 1	7 0 26 15 4	7 3 2	3 35	8 40	7 44 6 26
W24	12 45	10 40 2 19	13 13 1 14	4 16 48 0 16 1	5 34 0 2	22 36 0 2	22 18 2	0 26	19 17	0 12	0 37 1	7 0 26 15 4	7 3 2	3 36	8 41	7 43 6 26
T 25	13 5	7 17 1 16	12 43 0 57	7 17 11 0 14 1	5 47 0 1	22 35 0 2	22 18 2	0 26	19 17	0 12	0 36 1	7 0 27 15 4	7 3 1	3 38	8 43	7 42 6 26
F 26	13 25	3 40 0 11	12 13 0 41	1 17 33 0 11 1	5 1 0 1	22 34 0 2	22 18 1	0 26	19 18	0 12	0 36 1	7 0 27 15 4	7 3 1	3 39	8 45	7 41 6 27
S 27	13 44	0n 4 0s53	11 43 0 24	4 17 55 0 9 1	6 15 0 0	22 33 0 2	22 18 1	0 26	19 19	0 12	0 35 1	7 0 28 15 4	7 3 1	3 40	8 46	7 40 6 27
S 28	14 3		11 14 0 6	6 18 17 0 6 1	6 28 On 0	22 32 0 2	22 18 0	0 26	19 20	0 12	0 35 1	7 0 28 15 4	6 3 2	3 41	8 48	7 39 6 28
M29	14 22	7 19 2 51	10 46 0s1	1 18 38 0 4 1	5 42 0 1	22 31 0 2	22 18 0	0 26	19 21	0 12	0 34 1	7 0 28 15 4	6 3 4	3 43	8 50	7 38 6 28
T 30	14n40	10n35 3s40	10n20 0s27	7 18n58 0s 1 1	6n55 On 2	22n30 0n2	22 17s59	$0\mathrm{s}27$	19n21	0s12	0 s 3 4 1 n	7 0n29 15 s4	6 3n 6	3n44	8n51	7 s 37 6 n 28

 $\label{eq:Julian Day Number = 2491446.5, Delta T = 97.63 sec} \\ Ecliptic obliquity = 23°25'22, Nutation = -0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°16'00, Lahiri = 25°23'01 \\$

MAY 2109 00:00 UT

1.174 1	LIUJ														00.00	0 01
Day	Sid.t	0	D	ğ	·	ď	4	ħ)∤(¥	В	₽.	v	Ç	ķ	Day
W 1	14 35 21	10 8 33'38	19831	27°R35	26812	17840	189945	10≈39	27 8 25	4°R44	12824	22°R 2	20 m 31	1844	23≈20	W 1
T 2	14 39 17	11°31'57	1 Ⅲ 27	27 Υ 13	27°26	18°23	18°54	10°41	27°28	4 Ω 43	12°25	21 m/52	20°28	1°51	23°22	T 2
F 3	14 43 14	12°30'14	13°29	26°56	28°39	19° 7	19° 2	10°43	27°32	4°41	12°27	21°43	20°25	1°57	23°23	F 3
S 4	14 47 11	13°28'29	25°39	26°43	29°53	19°50	19°11	10°45	27°35	4°40	12°28	21°34	20°22	2° 4	23°25	S 4
S 5	14 51 7	14°26'42	7958	26°35	1 I 7	20°34	19°20	10°46	27°38	4°39	12°30	21°27	20°19	2°11	23°27	S 5
M 6	14 55 4	15°24'53	20°30	26°D31	2°20	21°17	19°29	10°48	27°42	4°38	12°31	21°22	20°15	2°17	23°28	M 6
T 7	14 59 0	16°23'02	3 Ω 17	26°33	3°34	22° 0	19°38	10°49	27°45	4°37	12°32	21°19	20°12	2°24	23°29	T 7
W 8	15 2 57	17°21'10	16°22	26°39	4°47	22°44	19°47	10°51	27°49	4°36	12°34	21°D18	20° 9	2°31	23°31	W 8
T 9	15 6 53	18°19'15	29°49	26°50	6° 1	23°27	19°56	10°52	27°52	4°34	12°35	21°18	20° 6	2°38	23°32	T 9
F 10	15 10 50	19°17'18	13 m 40	27° 5	7°14	24°10	20° 6	10°53	27°56	4°33	12°36	21°19	20° 3	2°44	23°33	F 10
S 11	15 14 46	20°15'20	27°56	27°25	8°28	24°53	20°15	10°54	27°59	4°32	12°38	21°R19	20° 0	2°51	23°34	S 11
S 12	15 18 43	21°13'19	12 ॒ 35	27°49	9°41	25°36	20°25	10°55	28° 3	4°31	12°39	21°17	19°56	2°58	23°36	S 12
M13	15 22 40	22°11'17	27°34	28°18	10°55	26°19	20°34	10°56	28° 6	4°30	12°40	21°13	19°53	3° 4	23°37	M13
T 14	15 26 36	23° 9'13	12 M .45	28°51	12° 8	27° 2	20°44	10°56	28°10	4°29	12°42	21° 7	19°50	3°11	23°38	T 14
W15	15 30 33	24° 7'07	27°58	29°27	13°22	27°45	20°54	10°57	28°13	4°28	12°43	20°58	19°47	3°18	23°38	W15
T 16	15 34 29	25° 5'00	13 ×7 3	8 B 0	14°35	28°28	21° 4	10°58	28°17	4°27	12°44	20°49	19°44	3°24	23°39	T 16
F 17	15 38 26	26° 2'52	27°50	0°52	15°48	29°11	21°14	10°58	28°20	4°27	12°46	20°40	19°41	3°31	23°40	F 17
S 18	15 42 22	27° 0'42	12 る 12	1°40	17° 1	29°54	21°24	10°58	28°24	4°26	12°47	20°32	19°37	3°38	23°41	S 18
S 19	15 46 19	27°58'32	26° 5	2°31	18°15	0Д36	21°35	10°59	28°27	4°25	12°48	20°26	19°34	3°44	23°41	S 19
M20	15 50 16	28°56'20	9≈28	3°26	19°28	1°19	21°45	10°59	28°31	4°24	12°50	20°22	19°31	3°51	23°42	M20
T 21	15 54 12	29°54'06	22°23	4°24	20°41	2° 2	21°55	10°R59	28°34	4°23	12°51	20°20	19°28	3°58	23°43	T 21
W22	15 58 9	0耳51'52	4 ₩ 55	5°25	21°54	2°44	22° 6	10°59	28°38	4°22	12°52	20°D20	19°25	4° 4	23°43	W22
T 23	16 2 5	1°49'36	17° 9	6°29	23° 8	3°27	22°17	10°59	28°41	4°22	12°54	20°R20	19°21	4°11	23°43	T 23
F 24	16 6 2	2°47'20	29° 9	7°36	24°21	4° 9	22°27	10°58	28°44	4°21	12°55	20°20	19°18	4°18	23°44	F 24
S 25	16 9 58	3°45'02	11 ° 1	8°45	25°34	4°52	22°38	10°58	28°48	4°20	12°56	20°18	19°15	4°24	23°44	S 25
S 26	16 13 55	4°42'44	22°49	9°58	26°47	5°34	22°49	10°58	28°51	4°20	12°58	20°14	19°12	4°31	23°44	S 26
M27	16 17 51	5°40'24	4 8 37	11°14	28° 0	6°16	23° 0	10°57	28°55	4°19	12°59	20° 7	19° 9	4°38	23°44	M27
T 28	16 21 48	6°38'03	16°28	12°32	29°13	6°59	23°11	10°56	28°58	4°19	13° 0	19°57	19° 6	4°45	23°44	T 28
W29	16 25 44	7°35'41	28°25	13°52	0ණ26	7°41	23°22	10°56	29° 2	4°18	13° 1	19°46	19° 2	4°51	23°R44	W29
T 30	16 29 41	8°33'18	10Ⅱ29	15°16	1°39	8°23	23°33	10°55	29° 5	4°17	13° 3	19°32	18°59	4°58	23°44	T 30
F 31	16 33 38	9 Ⅱ 30'54	22 ∏ 42	16842	2952	9耳 5	239544	10≈54	29 8 9	4 ₽ 17	138 4	19 m /19	18 M 56	5 8 5	23≈44	F 31

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W 1 T 2 F 3	14n59 15 17 15 35	13n26 4s19 15 45 4 47 17 23 5 3	9 33 0 5	69 19 38 0 4 17 20	0 3	22n29 0n2 22 27 0 2 22 26 0 2	2 17 58 0 2	7 19n22 7 19 23 7 19 24	0 s12 0 12 0 12	0s33 1n27 0 33 1 27 0 32 1 26	0n29 15 s46 0 30 15 46 0 30 15 46	3 13	3n45 3 46 3 48	8n53 8 54 8 56	7 s 36 6 n 29 7 35 6 29 7 34 6 29
S 4	15 52					22 25 0 2		7 19 24	0 12	0 32 1 26	0 31 15 46		3 49	8 58	7 34 6 30
S 5 M 6 T 7	16 27 16 44	17 26 4 28 15 42 3 48	8 26 1 5 8 15 2	8 21 7 0 16 18 21	0 6 0 6	22 23 0 2 22 21 0 2	2 17 57 0 2 2 17 57 0 2	7 19 25 7 19 26 7 19 27	0 12 0 12 0 12	0 31 1 26 0 31 1 26 0 31 1 26	0 31 15 46 0 31 15 46 0 32 15 46	3 25 3 27	3 50 3 51 3 53	8 59 9 1 9 3	7 33 6 30 7 32 6 31 7 31 6 31
W 8 T 9 F 10	17 0 17 16 17 32	13 7 2 56 9 46 1 53 5 47 0 41	8 1 2 2 7 58 2 3	9 21 23 0 19 18 33 9 21 39 0 21 18 45 8 21 54 0 24 18 56	0 8	22 20 0 2 22 19 0 2 22 17 0 2	2 17 56 0 2 2 17 56 0 2	8 19 28 8 19 28 8 19 29	0 12 0 12 0 12	0 30 1 26 0 30 1 26 0 29 1 26	0 32 15 46 0 32 15 46 0 33 15 46	3 27	3 54 3 55 3 56	9 4 9 6 9 8	7 30 6 31 7 29 6 32 7 29 6 32
S 11 S 12 M13	17 48 18 3 18 18	1 22 0n35 3s16 1 51 7 47 3 1	7 59 2 5	26 22 8 0 26 19 7 34 22 22 0 29 19 18 0 22 35 0 31 19 29	0 9	22 16 0 2 22 15 0 2 22 13 0 2	3 17 56 0 2	8 19 30 8 19 31 8 19 31	0 12 0 12 0 12	0 29 1 26 0 29 1 26 0 28 1 26	0 33 15 46 0 34 15 46 0 34 15 46	3 27	3 58 3 59 4 0	9911913	7 28 6 33 7 27 6 33 7 27 6 33
T 14 W15	18 33 18 47	11 51 3 59 15 9 4 40	8 9 3 8 18 3 1	6 22 48 0 34 19 39 1 22 59 0 36 19 50	0 11 0 11	22 12 0 2 22 10 0 2	3 17 56 0 2 3 17 56 0 2	8 19 32 9 19 33	0 12 0 12	0 28 1 26 0 27 1 26	0 34 15 46 0 35 15 46	3 31 3 35	4 1 4 3	9 14 9 16	7 26 6 34 7 25 6 34
T 16 F 17 S 18	19 15			5 23 11 0 39 20 0 8 23 21 0 41 20 10 20 23 31 0 44 20 20	0 12 0 13 0 13	22 7 0 2	3 17 56 0 2		0 12 0 12 0 12	0 27 1 26 0 27 1 26 0 26 1 26	0 35 15 46 0 35 15 47 0 36 15 47	3 42	4 4 4 5 4 6	9 18 9 19 9 21	7 25 6 35 7 24 6 35 7 23 6 35
S 19 M20 T 21	19 42 19 54 20 7	16 52 4 7 14 40 3 20 11 47 2 23	9 11 3 2 9 28 3 2 9 47 3 2	23 49 0 49 20 39	0 14 0 14 0 15	22 3 0 2			0 12 0 12 0 12	0 26 1 26 0 26 1 26 0 26 1 26	0 36 15 47 0 36 15 47 0 37 15 47	3 49	4 8 4 9 4 10	9 22 9 24 9 26	7 23 6 36 7 22 6 36 7 22 6 37
W22 T 23 F 24	20 19 20 31 20 42	8 26 1 21 4 49 0 17	10 8 3 2 10 31 3 2 10 54 3 1	22	0 16 0 16	21 59 0 2 21 58 0 2	3 17 56 0 2 3 17 56 0 3	9 19 38	0 12 0 12	0 25 1 26 0 25 1 26	0 37 15 47 0 37 15 47 0 37 15 47	3 50 3 50	4 11 4 13	9 27 9 29 9 31	7 21 6 37 7 21 6 37 7 20 6 38
S 25	20 42 20 53			6 24 21 1 0 21 23		21 56 0 2 21 54 0 2	3 17 57 0 3	0 19 41	0 12 0 12	0 25 1 26 0 25 1 26	0 37 15 47 0 38 15 47		4 14 4 15	9 32	7 20 6 38
M27	21 4 21 14 21 24	9 43 3 32	12 12 3	2 24 25 1 2 21 31 8 24 29 1 4 21 39 4 24 32 1 7 21 47	0 19	21 53 0 2 21 51 0 2 21 49 0 2	3 17 57 0 3	0 19 42 0 19 42 0 19 43	0 12 0 12 0 12	0 24 1 26 0 24 1 26 0 24 1 26	0 38 15 47 0 38 15 47 0 38 15 47	3 55	4 16 4 18 4 19	9 34 9 36 9 37	7 19 6 39 7 19 6 39 7 18 6 39
T 30	21 34 21 43 21n52	17 7 4 57	13 39 2 5	39 24 34 1 9 21 54 33 24 35 1 11 22 1 47 24n36 1n13 22n 9	0 20	21 45 0 2	3 17 58 0 3	0 19 44 0 19 45 1 19n45	0 12 0 12 0 s12	0 24 1 26 0 24 1 26 0 s23 1n26	0 39 15 48 0 39 15 48 0n39 15 s48	4 8	4 20 4 21 4n23	9 39 9 40 9n42	7 18 6 40 7 18 6 40 7 s17 6n41

Julian Day Number = 2491476.5, Delta T = 97.67 sec Ecliptic obliquity = $23^{\circ}25'21$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}16'04$, Lahiri = $25^{\circ}23'05$

JUNE 2109 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(¥	Р	r	v	Ç	Ŷ,	Day
S 1	16 37 34	10 Ⅲ 28′29	59 4	18810	495 5	9 Ⅱ 47	239556	10°R53	29812	4°R16	13 8 5	19°R 7	18 m 53	5 8 11	23°R44	S 1
S 2	16 41 31	11°26'02	17°35	19°41	5°18	10°29	24° 7	10≈52	29°16	4 ≏ 16	13° 6	18 m 56	18°50	5°18	23≈44	S 2
M 3	16 45 27	12°23'34	0Ω18	21°15	6°30	11°11	24°19	10°51	29°19	4°16	13° 8	18°48	18°47	5°25	23°43	M 3
T 4	16 49 24	13°21'05	13°13	22°51	7°43	11°53	24°30	10°49	29°23	4°15	13° 9	18°43	18°43	5°31	23°43	T 4
W 5	16 53 20	14°18'35	26°23	24°29	8°56	12°35	24°42	10°48	29°26	4°15	13°10	18°40	18°40	5°38	23°43	W 5
T 6	16 57 17	15°16'03	9 m /49	26°11	10° 9	13°17	24°53	10°47	29°29	4°15	13°11	18°40	18°37	5°45	23°42	T 6
F 7	17 1 13	16°13'30	23°33	27°54	11°22	13°59	25° 5	10°45	29°33	4°14	13°12	18°40	18°34	5°51	23°42	F 7
S 8	17 5 10	17°10'56	7 ≙ 37	29°40	12°34	14°41	25°17	10°43	29°36	4°14	13°14	18°39	18°31	5°58	23°41	S 8
S 9	17 9 7	18° 8'21	22° 1	1Ⅲ29	13°47	15°22	25°29	10°42	29°40	4°14	13°15	18°37	18°27	6° 5	23°40	S 9
M10	17 13 3	19° 5'44	6 M .41	3°19	14°59	16° 4	25°41	10°40	29°43	4°14	13°16	18°32	18°24	6°11	23°39	M10
T 11	17 17 0	20° 3'07	21°34	5°13	16°12	16°46	25°53	10°38	29°46	4°14	13°17	18°24	18°21	6°18	23°39	T 11
W12	17 20 56	21° 0'28	6 ₹ 32	7° 8	17°25	17°27	26° 5	10°36	29°50	4°13	13°18	18°14	18°18	6°25	23°38	W12
T 13	17 24 53	21°57'49	21°25	9° 6	18°37	18° 9	26°17	10°34	29°53	4°13	13°19	18° 4	18°15	6°32	23°37	T 13
F 14	17 28 49	22°55'09	6중 5	11° 6	19°50	18°50	26°29	10°31	29°56	4°13	13°20	17°53	18°12	6°38	23°36	F 14
S 15	17 32 46	23°52'29	20°24	13° 8	21° 2	19°32	26°41	10°29	29°59	4°D13	13°21	17°43	18° 8	6°45	23°35	S 15
S 16	17 36 43	24°49'48	4≈17	15°12	22°14	20°13	26°53	10°27	0 Ⅱ 3	4°13	13°22	17°35	18° 5	6°52	23°34	S 16
M17	17 40 39	25°47'06	17°42	17°18	23°27	20°54	27° 6	10°24	0° 6	4°13	13°24	17°30	18° 2	6°58	23°32	M17
T 18	17 44 36	26°44'24	0) (41	19°25	24°39	21°35	27°18	10°22	0° 9	4°13	13°25	17°27	17°59	7° 5	23°31	T 18
W19	17 48 32	27°41'41	13°15	21°34	25°51	22°17	27°30	10°19	0°12	4°14	13°26	17°D27	17°56	7°12	23°30	W19
T 20	17 52 29	28°38'58	25°31	23°44	27° 4	22°58	27°43	10°17	0°15	4°14	13°27	17°R27	17°52	7°18	23°28	T 20
F 21	17 56 25	29°36'15	7 Υ 32	25°55	28°16	23°39	27°55	10°14	0°19	4°14	13°28	17°26	17°49	7°25	23°27	F 21
S 22	18 0 22	0933'32	19°25	28° 6	29°28	24°20	28° 8	10°11	0°22	4°14	13°29	17°25	17°46	7°32	23°26	S 22
S 23	18 4 18	1°30'48	1815	09୍ତ18	$0\Omega40$	25° 1	28°21	10° 8	0°25	4°14	13°30	17°21	17°43	7°38	23°24	S 23
M24	18 8 15	2°28'05	13° 5	2°29	1°52	25°42	28°33	10° 5	0°28	4°15	13°31	17°15	17°40	7°45	23°22	M24
T 25	18 12 12	3°25'21	25° 0	4°41	3° 4	26°23	28°46	10° 2	0°31	4°15	13°32	17° 7	17°37	7°52	23°21	T 25
W26	18 16 8	4°22'37	7 Ⅱ 4	6°52	4°16	27° 4	28°58	9°59	0°34	4°15	13°32	16°56	17°33	7°58	23°19	W26
T 27	18 20 5	5°19'52	19°18	9° 2	5°28	27°45	29°11	9°56	0°37	4°16	13°33	16°44	17°30	8° 5	23°17	T 27
F 28	18 24 1	6°17'08	19543	11°11	6°40	28°26	29°24	9°52	0°40	4°16	13°34	16°32	17°27	8°12	23°15	F 28
S 29	18 27 58	7°14'23	14°20	13°19	7°52	29° 7	29°37	9°49	0°43	4°16	13°35	16°20	17°24	8°19	23°14	S 29
S 30	18 31 54	8911'38	279510	15926	9Ω 4	29 Ⅱ 47	29950	9≈46	0 Ⅱ 46	4 ≗ 17	13 8 36	16 M p11	17 M 21	8 8 25	23≈12	S 30

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S 1	22n 0	18n31	4 s49	14n40	2 s40	24n36	1n15	22n16	0n22	21n41	0n23	17s59	0 s 3 1	19n46	0s12	0 s23	1n26	0n39	15 s48	4n18	4n24	9n44	7s17	6n41
S 2	22 8	17 54	4 24	15 12	2 32	24 36	1 17	22 22	0 22	21 39	0 24	17 59	0 31	19 47	0 12	0 23	1 26	0 40	15 48	4 23	4 25	9 45	7 17	6 41
M 3	22 16		3 46	15 44		24 34		22 29		21 38	0 24		0 31		0 12	0 23	1 26		15 48	4 26	4 26	9 47	7 16	6 42
T 4	22 23			16 16	2 16	24 32		22 35		21 36	0 24	18 0	0 31		0 12	0 23	1 25	0 40	15 48	4 28	4 28	9 49	7 16	6 42
W 5	22 30				2 7	-		22 41		21 34	0 24	-	0 31	-		0 23	1 25			4 29	4 29	9 50	7 16	6 43
T 6	22 37	7 10		17 22		24 26		22 47		21 31	0 24	-	0 31			0 23	1 25			4 29	4 30	9 52	7 16	6 43
F 7	22 43	2 57		17 55		24 21		22 53		21 29	0 24			19 51	0 12	0 23	1 25	-		4 29	4 31	9 53	7 16	6 43
S 8	22 48	1 s31	1 38	18 27	1 39	24 16	1 27	22 58	0 26	21 27	0 24	18 2	0 32	19 51	0 12	0 23	1 25	0 41	15 49	4 29	4 32	9 55	7 15	6 44
S 9	22 54	6 0	2 46	19 0	1 29	24 11	1 29	23 3	0 26	21 25	0 24	18 3	0 32	19 52	0 12	0 23	1 25	0 41	15 49	4 30	4 34	9 57	7 15	6 44
M10	22 59	10 12	3 45	19 32	1 18	24 4	1 30	23 8	0 27	21 23	0 24	18 4	0 32	19 53	0 12	0 23	1 25	0 41	15 49	4 32	4 35	9 58	7 15	6 44
T 11	23 3	13 49		20 3	1 8		1 32			21 21	0 24		0 32		0 12	0 22	1 25	-	15 49	4 35		10 0	7 15	6 45
W12		16 33		20 33	0 57		1 33			21 19	0 24		0 32		0 12	0 22	1 25		15 50	4 39		10 1	7 15	6 45
T 13	_			-	0 46		1 34			21 16	0 24		0 32			0 22	1 25			4 43		10 3	7 15	6 46
F 14	_	18 31	4 46	_	0 35		1 36			21 14	0 24		0 32			0 22	1 25	-		4 47		10 5	7 15	6 46
S 15	23 17	17 42	4 14	21 58	0 23	23 22	1 37	23 30	0 30	21 12	0 24	18 7	0 32	19 56	0 12	0 23	1 25	0 42	15 50	4 51	4 41	10 6	7 15	6 46
S 16	23 19	15 49	3 27	22 24	0 12	23 12	1 38	23 34	0 30	21 10	0 24	18 8	0 33	19 57	0 12	0 23	1 25	0 42	15 50	4 54	4 42	10 8	7 15	6 47
M17	23 21	13 8	2 31	22 48	0 1	23 1	1 39	23 37	0 31	21 7	0 24	18 9	0 33	19 58	0 12	0 23	1 25	0 42	15 50	4 56	4 44	10 9	7 15	6 47
T 18	23 23	9 52	-	23 9	0n 9	-	1 40	-	0 31		0 24			19 58		0 23	1 25		15 51	4 57	4 45	-	7 15	6 47
	23 24	6 14		23 29	0 20		1 41		0 32		0 24		0 33			0 23	1 25		15 51	4 57		10 13	7 15	6 48
T 20	23 25	2 26		23 47	0 30				0 32		0 24		0 33			0 23	1 25		15 51	4 57		10 14	7 15	6 48
F 21	23 25	1n23			0 40	-		23 49		20 58	0 25		0 33		-	0 23	1 25		15 51	4 58	-	10 16	7 15	6 48
S 22	23 25	5 7	2 41	24 14	0 50	21 56	1 43	23 51	0 33	20 55	0 25	18 13	0 33	20 1	0 12	0 23	1 25	0 42	15 52	4 58	4 50	10 17	7 16	6 49
S 23	23 25	8 37	3 30	24 24	0 59	21 41	1 44	23 54	0 34	20 53	0 25	18 14	0 33	20 2	0 12	0 23	1 25	0 43	15 52	4 59	4 51	10 19	7 16	6 49
M24	23 24	11 46	4 10	24 31	1 7	21 26	1 44	23 56	0 34	20 50	0 25	18 15	0 34	20 2	0 12	0 23	1 25	0 43	15 52	5 2	4 52	10 21	7 16	6 49
T 25	23 23	14 29	4 40	24 35	1 15	21 9	1 45	23 57	0 35	20 48	0 25	18 16	0 34	20 3	0 12	0 24	1 25	0 43	15 52	5 5	4 54	10 22	7 16	6 50
W26	23 21	16 35		24 36	1 22			23 59		20 45	0 25		0 34		0 12	0 24	1 25		15 52	5 9		10 24	7 16	6 50
T 27		17 59	-	24 35	1 28			24 0		20 43	0 25		0 34	-	0 12	0 24	1 25		15 53	5 14		10 25	7 17	6 50
F 28	23 16		-	_		20 18	1 46			20 40	0 25		0 34		-	0 24	1 25		15 53	5 19	4 57		7 17	6 51
S 29	23 13	18 14	4 27	24 24	1 39	20 0	1 46	24 2	0 37	20 38	0 25	18 20	0 34	20 5	0 12	0 24	1 24	0 43	15 53	5 23	4 59	10 29	7 17	6 51
S 30	23n10	16n58	3 s49	24n14	1n43	19n41	1n46	24n 3	0n38	20n35	0n25	18 s21	0 s 3 4	20n 6	0s12	0 s24	1n24	0n43	15 s53	5n27	5n 0	10n30	7s18	6n51

Julian Day Number = 2491507.5, Delta T = 97.72 sec Ecliptic obliquity = $23^{\circ}25'21$, Nutation = - $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}16'08$, Lahiri = $25^{\circ}23'09$

JULY 2109 00:00 UT

Day	Sid.t	0	D	ğ	φ	o ⁷	4	ħ)∤(¥	В	R	Ω	Ç	ķ	Day
M 1	18 35 51	99 8'53	10Ω11	17931	10Ω16	09528	0 Ω 3	9°R42	0 ∏ 49	4 <u>₽</u> 17	13837	16°R 3	17 m)18	8832	23°R10	M 1
T 2	18 39 47	10° 6'07	23°23	19°35	11°28	1° 9	0°15	9≈39	0°52	4°18	13°38	15 m 59	17°14	8°39	23≈ 8	T 2
W 3	18 43 44	11° 3'21	6 m 46	21°37	12°40	1°49	0°28	9°35	0°55	4°18	13°39	15°57	17°11	8°45	23° 6	W 3
T 4	18 47 41	12° 0'34	20°22	23°37	13°51	2°30	0°41	9°31	0°58	4°19	13°39	15°D57	17° 8	8°52	23° 4	T 4
F 5	18 51 37	12°57'47	4 <u>₽</u> 10	25°35	15° 3	3°10	0°54	9°28	1° 0	4°20	13°40	15°57	17° 5	8°59	23° 1	F 5
S 6	18 55 34	13°55'00	18°10	27°31	16°15	3°51	1° 7	9°24	1° 3	4°20	13°41	15°R57	17° 2	9° 5	22°59	S 6
S 7	18 59 30	14°52'12	2 M 23	29°26	17°26	4°31	1°20	9°20	1° 6	4°21	13°42	15°56	16°58	9°12	22°57	S 7
M 8	19 3 27	15°49'25	16°46	1 Ω 18	18°38	5°12	1°33	9°16	1° 9	4°22	13°42	15°53	16°55	9°19	22°55	M 8
T 9	19 7 23	16°46'36	1 √ 17	3° 8	19°49	5°52	1°47	9°12	1°11	4°22	13°43	15°47	16°52	9°25	22°52	T 9
W10	19 11 20	17°43'48	1 <u>5</u> °50	4°57	21° 0	6°32	2° 0	9° 8	1°14	4°23	13°44	15°40	16°49	9°32	22°50	W10
T 11	19 15 16	18°41'00	0중20	6°43	22°12	7°12	2°13	9° 4	1°17	4°24	13°45	15°31	16°46	9°39	22°47	T 11
F 12	19 19 13	19°38'12	14°39	8°27	23°23	7°53	2°26	9° 0	1°19	4°25	13°45	15°22	16°43	9°46	22°45	F 12
S 13	19 23 10	20°35'24	28°42	10°10	24°34	8°33	2°39	8°56	1°22	4°26	13°46	15°15	16°39	9°52	22°42	S 13
S 14	19 27 6	21°32'36	12≈24	11°50	25°45	9°13	2°52	8°52	1°24	4°27	13°46	15° 9	16°36	9°59	22°40	S 14
M15	19 31 3	22°29'48	25°43	13°28	26°57	9°53	3° 6	8°48	1°27	4°28	13°47	15° 5	16°33	10° 6	22°37	M15
T 16	19 34 59	23°27'01	8 米 39	15° 5	28° 8	10°33	3°19	8°44	1°29	4°28	13°48	15° 3	16°30	10°12	22°35	T 16
W17	19 38 56	24°24'14	21°13	16°39	29°19	11°13	3°32	8°40	1°32	4°29	13°48	15°D 3	16°27	10°19	22°32	W17
T 18	19 42 52	25°21'28	3 Υ30	18°11	0 m 30	11°53	3°45	8°35	1°34	4°30	13°49	15° 4	16°24	10°26	22°29	T 18
F 19	19 46 49	26°18'43	15°34	19°42	1°40	12°33	3°59	8°31	1°36	4°32	13°49	15° 5	16°20	10°32	22°27	F 19
S 20	19 50 45	27°15'58	27°28	21°10	2°51	13°13	4°12	8°27	1°39	4°33	13°50	15°R 6	16°17	10°39	22°24	S 20
S 21	19 54 42	28°13'14	9820	22°36	4° 2	13°53	4°25	8°22	1°41	4°34	13°50	15° 5	16°14	10°46	22°21	S 21
M22	19 58 39	29°10'30	21°12	24° 0	5°13	14°33	4°38	8°18	1°43	4°35	13°51	15° 2	16°11	10°53	22°18	M22
T 23	20 2 35	0 Ω 7'47	3 Ⅱ 11	25°22	6°23	15°12	4°52	8°14	1°46	4°36	13°51	14°58	16° 8	10°59	22°15	T 23
W24	20 6 32	1° 5'05	15°20	26°42	7°34	15°52	5° 5	8° 9	1°48	4°37	13°52	14°52	16° 4	11° 6	22°12	W24
T 25	20 10 28	2° 2'24	27°41	27°59	8°45	16°32	5°18	8° 5	1°50	4°38	13°52	14°45	16° 1	11°13	22°10	T 25
F 26	20 14 25	2°59'44	109518	29°15	9°55	17°11	5°32	8° 0	1°52	4°40	13°53	14°38	15°58	11°19	22° 7	F 26
S 27	20 18 21	3°57'04	23°11	0 m)28	11° 5	17°51	5°45	7°56	1°54	4°41	13°53	14°31	15°55	11°26	22° 4	S 27
S 28	20 22 18	4°54'25	6 Ω 19	1°38	12°16	18°31	5°58	7°51	1°56	4°42	13°53	14°25	15°52	11°33	22° 1	S 28
M29	20 26 14	5°51'46	19°41	2°46	13°26	19°10	6°12	7°47	1°58	4°43	13°54	14°21	15°49	11°39	21°58	M29
T 30	20 30 11	6°49'09	3 m) 17	3°52	14°36	19°50	6°25	7°42	2° 0	4°45	13°54	14°19	15°45	11°46	21°55	T 30
W31	20 34 8	7 Ω 46'31	17 m) 3	4 m 55	15 M 46	209529	6Ω 38	7 ≈ 38	2 II 2	4 ≏ 46	13 8 54	14°D18	15 M 42	11853	21≈52	W31

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M 1 T 2	23n 6 23 2	-		24n 2 23 48	1n47 1 49	-	1n46 1 46	-		20n32 20 30	0n25 0 25		0s34 0 35	20n 7 20 7	0s12 0 12	0 s 2 5 0 2 5	1n24 1 24	0n43 15 s54 0 43 15 54		5n 1	10n32 10 33	7s18 7 18	6n52 6 52
W 3 T 4	22 58 22 53			23 3123 12	1 51 1 52	-	1 46 1 46	24 4 24 4		20 27 20 24	0 25 0 25		0 35 0 35			0 25 0 25	1 24 1 24	0 43 15 54 0 43 15 54		5 3 5 5		7 19 7 19	6 52 6 52
F 5 S 6	22 47 22 42			22 52 22 29	1 53 1 53	17 59 17 38	1 45 1 45	24 324 3		20 21 20 19	0 25 0 25		0 35 0 35	20 9 20 10		0 26 0 26	1 24 1 24	0 43 15 55 0 43 15 55		5 6 5 7		7 20 7 20	6 53 6 53
S 7 M 8 T 9 W10 T 11		12 34 15 35 17 37	4 55 5 5	22 5 21 39 21 12 20 43 20 14	1 52 1 50 1 48 1 46 1 42	16 53 16 30 16 6	1 45 1 44 1 43 1 43 1 42	24 1 24 0 23 58	0 42		0 26	18 31 18 32	0 35 0 35 0 35	20 10 20 11 20 11 20 12 20 12	0 12 0 12 0 12	0 27	1 24 1 24 1 24 1 24 1 24	0 43 15 53 0 43 15 53 0 43 15 56 0 42 15 56 0 42 15 56	5 34 5 36 5 39		10 43 10 44 10 46	7 20 7 21 7 21 7 22 7 23	6 53 6 53 6 54 6 54 6 54
F 12 S 13	21 59 21 51	-	-	19 43 19 11	1 38 1 34		1 41 1 40	23 55 23 53	0 44 0 44	20 1 19 58	0 26 0 26			20 13 20 13		0 28 0 28	1 24 1 24	0 42 15 50 0 42 15 5		5 15 5 16	10 49 10 51	7 23 7 24	6 54 6 55
S 14 M15 T 16 W17 T 18 F 19 S 20	21 42 21 33 21 23 21 13 21 3 20 52 20 41	11 20 7 47 3 59 0 6 3n42	1 42 0 34 0 s33 1 38 2 37	18 39 18 6 17 32 16 57 16 22 15 47 15 12	1 29 1 23 1 17 1 10 1 3 0 56 0 48	14 3 13 37 13 11 12 45 12 18	1 36 1 35 1 34	23 48 23 46 23 43 23 40 23 37	0 45 0 46 0 46 0 47 0 47	19 50 19 47 19 44	0 26 0 26 0 26 0 26 0 26 0 26 0 26	18 38 18 39 18 40 18 41	0 36 0 36 0 36 0 36 0 36	20 14 20 15 20 15 20 16 20 16 20 17	0 12 0 12 0 12 0 12 0 12	0 29 0 29 0 30 0 30 0 31 0 31 0 31	1 24 1 24 1 24 1 24 1 24 1 24 1 24	0 42 15 5° 0 42 15 5° 0 42 15 58 0 42 15 58 0 42 15 58 0 42 15 58 0 41 15 59	5 53 5 53 5 53 5 53 5 53 5 53 5 52	5 18 5 20 5 21	10 55 10 57 10 59 11 0	7 24 7 25 7 26 7 26 7 27 7 28 7 28	6 55 6 55 6 55 6 55 6 56 6 56 6 56
S 21 M22 T 23 W24 T 25 F 26 S 27	20 19 20 7 19 54 19 41 19 28	13 30 15 50 17 30 18 23 18 24	4 43 5 2 5 9 5 1 4 39	14 36 14 0 13 25 12 49 12 13 11 38 11 2	0 40 0 31 0 22 0 13 0 3 0s 7 0 17	10 57 10 29 10 1 9 32 9 4	1 25 1 23 1 21	23 26 23 22 23 18 23 14 23 9	0 49 0 49 0 49 0 50	19 34 19 31 19 28 19 25 19 22 19 19 19 15	0 27 0 27 0 27 0 27 0 27		0 37 0 37 0 37 0 37 0 37	20 17 20 18 20 18 20 19 20 19 20 20 20 20	0 12 0 12 0 12 0 12 0 12	0 32 0 32 0 33 0 33 0 34 0 34 0 35	1 24 1 24 1 24 1 24 1 23 1 23 1 23		5 53	5 28 5 29 5 31 5 32	11 5 11 6	7 29 7 30 7 31 7 31 7 32 7 33 7 34	6 56 6 56 6 56 6 56 6 57 6 57 6 57
S 28 M29 T 30 W31	19 2 18 48 18 33 18n19	12 51 9 22	3 12 2 10 1 0 0n15	9 19	0 27 0 38 0 49 1 s 0	7 37 7 8	1 10	23 0 22 54 22 49 22n44	0 52 0 52		0 27	18 54 18 55 18 56 18 s57	0 37 0 37	20 20 20 21 20 21 20n21	0 12 0 12 0 12 0 s12	0 36 0 37	1 23 1 23 1 23 1n23	0 40 16 0 40 16 0 40 16 0 n39 16s 2		5 36 5 37	11 14 11 16 11 17 11n19	7 35 7 35 7 36 7 s37	6 57 6 57 6 57 6n57

Julian Day Number = 2491537.5, Delta T = 97.76 sec Ecliptic obliquity = $23^{\circ}25'21$, Nutation = - $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}16'13$, Lahiri = $25^{\circ}23'13$

AUGUST 2109 00:00 UT

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Day	Sid.t	\odot	D	ğ	φ	♂	4	ħ)ф(#	Р	n	Ω	Ç	Š,	Day
T 1	20 38 4	8 Ω 43'55	0 ₽ 59	5 m 55	16 m 57	2195 9	6 Ω 52	7°R33	2 I I 4	4 ≏ 48	13854	14 m)19	15 m 39	12 8 0	21°R49	T 1
F 2	20 42 1	9°41'18	15° 1	6°53	18° 6	21°48	7° 5	7≈29	2° 5	4°49	13°55	14°21	15°36	12° 6	21≈45	F 2
S 3	20 45 57	10°38'43	29° 9	7°47	19°16	22°27	7°18	7°25	2° 7	4°50	13°55	14°22	15°33	12°13	21°42	S 3
S 4	20 49 54	11°36'08	13ML20	8°38	20°26	23° 7	7°32	7°20	2° 9	4°52	13°55	14°R22	15°30	12°20	21°39	S 4
M 5	20 53 50	12°33'33	27°34	9°26	21°36	23°46	7°45	7°16	2°10	4°53	13°55	14°21	15°26	12°26	21°36	M 5
T 6	20 57 47	13°30'59	11 × 746	10°11	22°46	24°25	7°58	7°11	2°12	4°55	13°56	14°19	15°23	12°33	21°33	T 6
W 7	21 1 43	14°28'26	25°55	10°52	23°55	25° 4	8°11	7° 7	2°14	4°57	13°56	14°16	15°20	12°40	21°30	W 7
T 8	21 5 40	15°25'54	9 ට 58	11°29	25° 5	25°43	8°25	7° 2	2°15	4°58	13°56	14°12	15°17	12°46	21°27	T 8
F 9	21 9 37	16°23'22	23°50	12° 3	26°14	26°23	8°38	6°58	2°17	5° 0	13°56	14° 8	15°14	12°53	21°24	F 9
S 10	21 13 33	17°20'51	7≈28	12°32	27°23	27° 2	8°51	6°54	2°18	5° 1	13°56	14° 4	15°10	13° 0	21°20	S 10
S 11	21 17 30	18°18'22	20°50	12°57	28°33	27°41	9° 4	6°49	2°20	5° 3	13°56	14° 1	15° 7	13° 7	21°17	S 11
M12	21 21 26	19°15'53	3) 54	13°17	29°42	28°20	9°18	6°45	2°21	5° 5	13°56	14° 0	15° 4	13°13	21°14	M12
T 13	21 25 23	20°13'25	16°40	13°33	0 ჲ 51	28°59	9°31	6°41	2°22	5° 6	13°56	13°D59	15° 1	13°20	21°11	T 13
W14	21 29 19	21°10'59	29°10	13°43	2° 0	29°38	9°44	6°36	2°23	5°8	13°R56	14° 0	14°58	13°27	21° 8	W14
T 15	21 33 16	22° 8'34	11 Y 24	13°49	3° 8	0Ω16	9°57	6°32	2°25	5°10	13°56	14° 1	14°55	13°33	21° 5	T 15
F 16	21 37 12	23° 6'10	23°27	13°R49	4°17	0°55	10°10	6°28	2°26	5°11	13°56	14° 3	14°51	13°40	21° 1	F 16
S 17	21 41 9	24° 3'48	5 8 22	13°44	5°26	1°34	10°23	6°24	2°27	5°13	13°56	14° 4	14°48	13°47	20°58	S 17
S 18	21 45 6	25° 1'28	17°15	13°33	6°34	2°13	10°36	6°20	2°28	5°15	13°56	14° 5	14°45	13°53	20°55	S 18
M19	21 49 2	25°59'08	29° 8	13°16	7°43	2°52	10°50	6°16	2°29	5°17	13°56	14°R 5	14°42	14° 0	20°52	M19
T 20	21 52 59	26°56'51	11 I 8	12°54	8°51	3°30	11° 3	6°12	2°30	5°19	13°56	14° 5	14°39	14° 7	20°49	T 20
W21	21 56 55	27°54'35	23°18	12°26	9°59	4° 9	11°16	6° 8	2°31	5°20	13°56	14° 3	14°36	14°14	20°46	W21
T 22	22 0 52	28°52'21	59543	11°53	11° 7	4°48	11°29	6° 4	2°32	5°22	13°55	14° 2	14°32	14°20	20°42	T 22
F 23	22 4 48	29°50'08	18°25	11°15	12°15	5°26	11°42	6° 0	2°33	5°24	13°55	14° 0	14°29	14°27	20°39	F 23
S 24	22 8 45	0 M)47'57	1 Ω 28	10°33	13°23	6° 5	11°55	5°56	2°33	5°26	13°55	13°58	14°26	14°34	20°36	S 24
S 25	22 12 41	1°45'47	14°51	9°46	14°31	6°44	12° 7	5°52	2°34	5°28	13°55	13°56	14°23	14°40	20°33	S 25
M26	22 16 38	2°43'39	28°33	8°56	15°39	7°22	12°20	5°48	2°35	5°30	13°55	13°55	14°20	14°47	20°30	M26
T 27	22 20 34	3°41'32	12 m /33	8° 4	16°46	8° 1	12°33	5°45	2°35	5°32	13°54	13°D55	14°16	14°54	20°27	T 27
W28	22 24 31	4°39'27	26°46	7°10	17°53	8°39	12°46	5°41	2°36	5°34	13°54	13°55	14°13	15° 0	20°24	W28
T 29	22 28 28	5°37'23	11 亞 8	6°15	19° 1	9°17	12°59	5°37	2°36	5°36	13°54	13°56	14°10	15° 7	20°21	T 29
F 30	22 32 24	6°35'20	25°34	5°21	20° 8	9°56	13°11	5°34	2°37	5°38	13°53	13°56	14° 7	15°14	20°18	F 30
S 31	22 36 21	7 m 33'19	10 M 0	4 Mp 28	21 ≙ 15	10 Ω 34	13 Ω 24	5≈31	2 Ⅱ 37	5 ≙ 40	13 8 53	13 m 57	14Mp 4	15 8 21	20≈15	S 31

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S 4 M 5 T 6 W 7 T 8 F 9		14 44 4 59 17 1 5 12 18 16 5 6 18 22 4 42	5 17 2 23	4 9 0 53 22 3 39 0 50 22 3 8 0 47 22 2 38 0 44 2	2 14 0 55 2 8 0 55 2 1 0 56 1 54 0 56	18 46 0 28 18 43 0 28 18 39 0 28 18 36 0 28	19 3 0 38 19 5 0 38 19 6 0 38 19 7 0 38	20 23 0 12 20 23 0 12 20 24 0 12	0 42 1 23	0 39 16 3 0 38 16 4 0 38 16 4 0 38 16 4 0 37 16 5 0 37 16 5	6 9 6 9 6 10 6 11 6 13 6 15	5 43 11 25 5 44 11 27 5 45 11 28 5 47 11 30 5 48 11 31 5 49 11 33	7 41 6 57 7 42 6 57 7 43 6 57 7 44 6 57 7 45 6 57 7 46 6 57
S 10 S 11 M12 T 13 W14 T 15 F 16 S 17	15 37 15 20 15 2 14 44 14 26 14 7 13 48 13 29	15 22 3 7 12 35 2 4 9 13 0 55 5 29 0s15 1 36 1 23 2n17 2 25 6 0 3 21 9 25 4 7	3 46 3 10 3 28 3 21	1 6 0 34 2 0 35 0 31 2 0 5 0 27 2 0 5 0 24 2 0 57 0 20 2	1 33	18 22 0 28 18 19 0 29 18 16 0 29 18 12 0 29	19 10 0 38 19 12 0 38 19 13 0 39 19 14 0 39 19 15 0 39 19 16 0 39	20 25 0 12 20 25 0 12 20 25 0 12 20 26 0 12	0 44 1 23 0 45 1 23	0 37 16 5 0 37 16 5 0 36 16 6 0 36 16 6 0 36 16 6 0 35 16 7 0 35 16 7		5 50 11 34 5 51 11 36 5 53 11 37 5 54 11 39 5 55 11 40 5 56 11 42 5 58 11 43 5 59 11 45	7 47 6 57 7 48 6 57 7 49 6 57 7 50 6 57 7 51 6 57 7 52 6 57 7 53 6 57 7 54 6 57
S 18 M19 T 20 W21 T 22 F 23 S 24	12 51 12 31 12 11 11 51 11 31	12 27 4 42 14 59 5 5 16 53 5 15 18 4 5 12	2 29 4 26 2 31 4 32 2 38 4 36 2 47 4 40 3 0 4 41	2 29 0 8 20 2 59 0 5 20 3 30 0 1 20 4 0 0s 4 20 4 31 0 8 20	0 38 1 0 0 30 1 1 0 21 1 1 0 12 1 2 0 3 1 2 0 54 1 3		19 19 0 39 19 20 0 39 19 22 0 39 19 23 0 39 19 24 0 39	20 27 0 12 20 28 0 12 20 28 0 12	0 53 1 23	0 35 16 8 0 34 16 8 0 34 16 8 0 34 16 9 0 33 16 9 0 33 16 9	6 15 6 15 6 16 6 16 6 17 6 18 6 18	6 0 11 46 6 1 11 48 6 3 11 49 6 4 11 51 6 5 11 53 6 6 11 54 6 7 11 56	
S 25 M26 T 27 W28 T 29 F 30 S 31	10 30 10 9 9 48 9 27 9 5	13 55 2 34 10 39 1 24 6 44 0 8 2 22 1n11 2s10 2 25 6 36 3 31 10s38 4n23	3 56 4 36 4 21 4 31 4 48 4 24	6 32 0 25 19 7 2 0 29 19 7 32 0 33 19 8 1 0 38 18 8 31 0 42 18	9 27 1 4 9 17 1 4 9 7 1 4 8 58 1 5 8 48 1 5	17 34 0 30 17 30 0 30 17 27 0 30 17 23 0 30 17 20 0 30	19 27 0 39 19 28 0 39 19 28 0 39 19 29 0 39 19 30 0 40	20 28 0 12 20 28 0 12	0 55 1 23 0 56 1 23 0 57 1 23 0 57 1 23 0 58 1 23	0 32 16 10 0 32 16 10 0 32 16 10 0 31 16 11 0 31 16 11 0 30 16 11 0n30 16s12	6 19 6 19 6 19 6 19 6 19 6 19 6 19	6 9 11 57 6 10 11 59 6 11 12 0 6 12 12 2 6 14 12 3 6 15 12 5 6n16 12n 6	8 2 6 56 8 4 6 56 8 5 6 56 8 6 6 56 8 7 6 56 8 8 6 56 8 8 9 6n55

Julian Day Number = 2491568.5, Delta T = 97.80 sec Ecliptic obliquity = $23^{\circ}25'21$, Nutation = - $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}16'17$, Lahiri = $25^{\circ}23'17$

SEPTEMBER 2109 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	ð	4	ħ)∤(¥	В	S.	v	Ç	Ŷ,	Day
S 1	22 40 17	8 m y31'19	24M21	3°R39	22 <u>0</u> 22	11 Ω 12	13 Ω 37	5°R27	2 Д 38	5 ≏ 42	13°R53	13 m 57	14 m) 1	15 8 27	20°R12	S 1
M 2	22 44 14	9°29'20	8 ∡ ³35	2 m 53	23°28	11°51	13°49	5≈24	2°38	5°44	13 8 52	13°R58	13°57	15°34	20≈ 9	M 2
T 3	22 48 10	10°27'23	22°38	2°13	24°35	12°29	14° 2	5°21	2°38	5°46	13°52	13°57	13°54	15°41	20° 6	T 3
W 4	22 52 7	11°25'27	6 ප 30	1°38	25°41	13° 7	14°14	5°17	2°38	5°48	13°51	13°57	13°51	15°47	20° 3	W 4
T 5	22 56 3	12°23'33	20°10	1°10	26°48	13°45	14°27	5°14	2°39	5°50	13°51	13°57	13°48	15°54	20° 0	T 5
F 6	23 0 0	13°21'40	3≈36	0°50	27°54	14°23	14°39	5°11	2°39	5°52	13°51	13°57	13°45	16° 1	19°58	F 6
S 7	23 3 57	14°19'48	16°48	0°37	28°59	15° 2	14°52	5° 8	2°39	5°54	13°50	13°D57	13°41	16° 8	19°55	S 7
S 8	23 7 53	15°17'58	29°46	0°D34	OM 5	15°40	15° 4	5° 5	2°R39	5°56	13°50	13°57	13°38	16°14	19°52	S 8
M 9	23 11 50	16°16'09	12) (31	0°39	1°11	16°18	15°16	5° 3	2°39	5°58	13°49	13°R57	13°35	16°21	19°49	M 9
T 10	23 15 46	17°14'22	25° 3	0°53	2°16	16°56	15°29	5° 0	2°39	6° 1	13°49	13°57	13°32	16°28	19°47	T 10
W11	23 19 43	18°12'37	7 Υ 22	1°15	3°21	17°34	15°41	4°57	2°39	6° 3	13°48	13°57	13°29	16°34	19°44	W11
T 12	23 23 39	19°10'54	19°31	1°47	4°26	18°11	15°53	4°55	2°38	6° 5	13°47	13°56	13°26	16°41	19°41	T 12
F 13	23 27 36	20° 9'13	1831	2°27	5°31	18°49	16° 5	4°52	2°38	6° 7	13°47	13°55	13°22	16°48	19°39	F 13
S 14	23 31 32	21° 7'33	13°25	3°15	6°36	19°27	16°17	4°50	2°38	6° 9	13°46	13°55	13°19	16°54	19°36	S 14
S 15	23 35 29	22° 5'56	25°16	4°11	7°40	20° 5	16°29	4°47	2°37	6°11	13°46	13°54	13°16	17° 1	19°34	S 15
M16	23 39 26	23° 4'21	7 I I 9	5°14	8°44	20°43	16°41	4°45	2°37	6°14	13°45	13°53	13°13	17° 8	19°31	M16
T 17	23 43 22	24° 2'48	19° 7	6°24	9°48	21°21	16°53	4°43	2°37	6°16	13°44	13°D52	13°10	17°15	19°29	T 17
W18	23 47 19	25° 1'17	19916	7°41	10°52	21°58	17° 5	4°41	2°36	6°18	13°44	13°52	13° 7	17°21	19°26	W18
T 19	23 51 15	25°59'49	13°39	9° 3	11°55	22°36	17°16	4°39	2°36	6°20	13°43	13°53	13° 3	17°28	19°24	T 19
F 20	23 55 12	26°58'22	26°20	10°30	12°58	23°14	17°28	4°37	2°35	6°22	13°42	13°54	13° 0	17°35	19°22	F 20
S 21	23 59 8	27°56'58	9 Ω 24	12° 1	14° 2	23°51	17°39	4°35	2°34	6°25	13°41	13°55	12°57	17°41	19°20	S 21
S 22	0 3 5	28°55'36	22°52	13°37	15° 4	24°29	17°51	4°34	2°34	6°27	13°41	13°56	12°54	17°48	19°17	S 22
M23	0 7 1	29°54'15	6 m 45	15°15	16° 7	25° 6	18° 2	4°32	2°33	6°29	13°40	13°R57	12°51	17°55	19°15	M23
T 24	0 10 58	0 ≙ 52'57	21° 2	16°57	17° 9	25°44	18°14	4°31	2°32	6°31	13°39	13°57	12°47	18° 2	19°13	T 24
W25	0 14 54	1°51'41	5 ≙ 37	18°40	18°11	26°21	18°25	4°29	2°31	6°33	13°38	13°56	12°44	18° 8	19°11	W25
T 26	0 18 51	2°50'27	20°25	20°26	19°13	26°59	18°36	4°28	2°30	6°36	13°38	13°54	12°41	18°15	19° 9	T 26
F 27	0 22 48	3°49'14	5 M ₁9	22°12	20°14	27°36	18°47	4°27	2°30	6°38	13°37	13°52	12°38	18°22	19° 7	F 27
S 28	0 26 44	4°48'04	20° 9	24° 0	21°15	28°14	18°58	4°26	2°29	6°40	13°36	13°49	12°35	18°28	19° 5	S 28
S 29	0 30 41	5°46'55	4 ₹ 49	25°49	22°16	28°51	19° 9	4°24	2°28	6°42	13°35	13°47	12°32	18°35	19° 3	S 29
M30	0 34 37	6 ₽ 45'48	19 × 14	27 Mg 38	23 M .17	$29\Omega 28$	$19\Omega 20$	4≈24	2∏26	6 ₽ 45	13 8 34	13 m 45	12 m 28	18 8 42	19≈ 2	M30

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S 1	8n22		4n59	6n48	3 s 3 6	9s30		18n28		17n13		19 s 3 2		20n29		1s 0	1n23	0n30 16		6n18	6n17	12n 8	8s10	6n55
M 2 T 3			5 16 5 14	7 19 7 49	3 20 3 4	9 59 10 28		18 17 18 7	1 6	17 9 17 6	0 31 0 31			20 29 20 29		1 1 1 1 2	1 23 1 23	, _,		6 18 6 18	6 18 6 20	12 9 12 11	8 11 8 12	6 55 6 55
W 4			4 53	8 18	2 46	10 26		17 56	1 7		0 31			20 29		1 2	1 23			6 18	6 21	12 11	8 13	6 54
T 5	6 54	-	4 16	8 45	2 27	11 25	-	17 46	1 8		0 31			20 29		1 3	1 22			6 19	6 22		8 14	6 54
F 6	6 32	-,	3 26	9 10	2 8	-		17 35	1 8		0 31			20 29		1 4	1 22			6 19	6 23		8 15	6 54
S 7	6 10	13 29	2 25	9 33	1 49	12 21	1 20	17 24	1 8	16 52	0 31	19 37	0 40	20 29	0 12	1 5	1 22	0 27 16	14	6 19	6 25	12 17	8 17	6 54
S 8		10 20	1 18		1 30	12 49		17 13		16 48	0 31			20 29		1 6	1 22	0 27 16		6 19		12 18	8 18	6 54
M 9	5 25			10 8	1 11	13 16		17 2		16 45	0 32			20 29		1 7	1 22			6 19		12 20	8 19	6 53
T 10	5 2		-	10 20	0 53	-	-	16 51		16 41	0 32			20 29		1 7	1 22			6 19	-		8 20	6 53
W11	4 40		-	10 29	0 35			16 40		16 38		19 40		20 29	1	1 8	1 22			6 19	6 29		8 21	6 53
T 12 F 13	4 17 3 54	,	-	10 33	0 18			16 29		16 34		19 40		20 29		1 9	1 22			6 19		12 24	8 22	6 52 6 52
S 14			4 33	10 34	0 1 0n14	15 4 15 30		16 17 16 6	1 11 1 11		0 32 0 32			20 29 20 29		1 10 1 11	1 22 1 22	0 25 16 0 25 16	-	6 19 6 20		12 26 12 27	8 23 8 24	6 52
	3 31	11 30		-					1 11							1 11	1 22	0 23 10	15 (0 20				
S 15	3 8			10 24	0 28			15 54	1 11		0 32			20 28	1	1 12	1 22	0 24 16		6 20		12 28	8 25	6 52
M16	2 45		-	10 13	0 41	16 21		15 43		16 21	0 32			20 28		1 13	1 22			6 20			8 26	6 51
T 17	2 22		5 15	9 59	0 53			15 31		16 17		19 43		20 28		1 13	1 22			6 20		12 31	8 27	6 51
W18 T 19	1 59 1 35		5 2	9 41 9 19	1 4 1 14			15 19		16 14		19 44 19 44		20 28		1 14	1 22 1 22			6 20 6 20	6 38		8 28	6 51 6 50
F 20	1 12		4 35 3 54	8 54	1 22		2 18	15 7 14 55		16 10 16 7		19 44		20 28 20 28		1 15 1 16	1 22 1 22			6 20	6 39 6 40	_	8 29 8 30	6 50
S 21			3 0	8 26	1 30			14 43	1 13			19 45		20 28		1 17	1 22			6 19	-	12 30	8 31	6 50
S 22	0 26		1 54	7 55	1 36			14 31		16 0		19 46		20 28		1 18	1 22	0 21 16		6 19		12 37	8 32	6 49
M23	0 20	-	0 40	7 22	1 41	19 10		14 18		15 57		19 46		20 28		1 19	1 22			6 19		12 40	8 33	6 49
T 24	0 s21		0n39	6 46	1 45			14 6		15 53	0 33			20 27	0 12	1 20	1 22			6 19	6 45	-	8 34	6 49
W25	0 44	-	1 57	6 8	1 48		-	13 54		15 50	0 34			20 27	0 12	1 20	1 22		-	6 19	6 46		8 35	6 48
T 26	1 8		3 8	5 29	1 50		2 52			15 47	0 34			20 27		1 21	1 22		-	6 20		12 45	8 36	6 48
F 27	1 31	-	4 7	4 48	1 51			13 29		15 43	0 34			20 27		1 22	1 22		-	6 21			8 37	6 47
S 28	1 54	13 8	4 48	4 6	1 52	20 59		13 16		15 40	0 34	19 48	0 40	20 27	0 12	1 23	1 22	0 19 16	18	6 22	6 50	12 48	8 38	6 47
S 29	2 18	15 59	5 11	3 22	1 52	21 19	3 6	13 3	1 16	15 37	0 34	19 48	0 40	20 27	0 12	1 24	1 22	0 18 16	19	6 23	6 51	12 49	8 39	6 47
M30	2 s41	17 s47	5n13	2n38	1n51	21 s39	3 s11	12n51	1n17	15n33	0n35	19 s48	0 s40	20n26	0s12	1 s25	1n22	0n18 16	s19 6	6n23	6n53	12n50	8 s40	6n46

 $\label{eq:Julian Day Number = 2491599.5, Delta T = 97.84 sec} \\ Ecliptic obliquity = 23°25'22, Nutation = -0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°16'21, Lahiri = 25°23'22 \\ \\$

OCTOBER 2109 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)بُ(¥	Р	ß	v	Ç	Ŷ,	Day
T 1	0 38 34	7 - 244'43	3 ට 20	29 m 27	24 M 17	0 m) 6	19 Ω 31	4°R23	2°R25	6 ₽ 47	13°R33	13°D44	12 m 25	18 8 49	19°R 0	T 1
W 2	0 42 30	8°43'39	17° 6	1 2 16	25°16	0°43	19°42	4≈22	2 Ⅱ 24	6°49	13 8 33	13 m 44	12°22	18°55	18≈58	W 2
T 3	0 46 27	9°42'38	0≈31	3° 5	26°16	1°20	19°53	4°21	2°23	6°51	13°32	13°45	12°19	19° 2	18°57	T 3
F 4	0 50 23	10°41'37	13°39	4°53	27°15	1°57	20° 3	4°21	2°22	6°53	13°31	13°47	12°16	19° 9	18°55	F 4
S 5	0 54 20	11°40'39	26°31	6°42	28°14	2°34	20°14	4°20	2°20	6°56	13°30	13°48	12°12	19°15	18°54	S 5
S 6	0 58 17	12°39'42	9 米 9	8°29	29°12	3°11	20°24	4°20	2°19	6°58	13°29	13°R49	12° 9	19°22	18°52	S 6
M 7	1 2 13	13°38'48	21°35	10°17	0 才 10	3°48	20°34	4°20	2°18	7° 0	13°28	13°49	12° 6	19°29	18°51	M 7
T 8	1 6 10	14°37'55	3 Υ 51	12° 3	1° 7	4°25	20°44	4°20	2°16	7° 2	13°27	13°47	12° 3	19°36	18°49	T 8
W 9	1 10 6	15°37'04	15°59	13°49	2° 4	5° 2	20°54	4°D20	2°15	7° 5	13°26	13°44	12° 0	19°42	18°48	W 9
T 10	1 14 3	16°36'15	28° 0	15°34	3° 0	5°39	21° 4	4°20	2°13	7° 7	13°25	13°39	11°57	19°49	18°47	T 10
F 11	1 17 59	17°35'28	9 8 56	17°19	3°56	6°16	21°14	4°20	2°12	7° 9	13°24	13°33	11°53	19°56	18°46	F 11
S 12	1 21 56	18°34'43	21°48	19° 2	4°52	6°53	21°24	4°20	2°10	7°11	13°23	13°27	11°50	20° 2	18°45	S 12
S 13	1 25 52	19°34'01	3Ⅲ39	20°45	5°46	7°30	21°34	4°20	2° 9	7°13	13°22	13°20	11°47	20° 9	18°44	S 13
M14	1 29 49	20°33'21	15°32	22°27	6°41	8° 7	21°43	4°21	2° 7	7°16	13°21	13°15	11°44	20°16	18°43	M14
T 15	1 33 46	21°32'43	27°29	24° 9	7°35	8°44	21°53	4°21	2° 5	7°18	13°20	13°10	11°41	20°22	18°42	T 15
W16	1 37 42	22°32'07	9935	25°50	8°28	9°20	22° 2	4°22	2° 3	7°20	13°19	13° 7	11°38	20°29	18°41	W16
T 17	1 41 39	23°31'34	21°54	27°30	9°20	9°57	22°11	4°23	2° 2	7°22	13°18	13°D 6	11°34	20°36	18°40	T 17
F 18	1 45 35	24°31'03	4 Ω 30	29° 9	10°12	10°34	22°21	4°24	2° 0	7°24	13°17	13° 7	11°31	20°43	18°39	F 18
S 19	1 49 32	25°30'34	17°28	0 M .48	11° 4	11°10	22°30	4°25	1°58	7°26	13°16	13° 8	11°28	20°49	18°39	S 19
S 20	1 53 28	26°30'08	0 m 51	2°26	11°55	11°47	22°39	4°26	1°56	7°29	13°15	13°10	11°25	20°56	18°38	S 20
M21	1 57 25	27°29'44	14°43	4° 3	12°44	12°23	22°47	4°27	1°54	7°31	13°14	13°R10	11°22	21° 3	18°38	M21
T 22	2 1 21	28°29'21	29° 2	5°40	13°34	13° 0	22°56	4°28	1°52	7°33	13°13	13° 9	11°18	21° 9	18°37	T 22
W23	2 5 18	29°29'02	13 ≏ 47	7°16	14°22	13°36	23° 5	4°30	1°50	7°35	13°11	13° 6	11°15	21°16	18°37	W23
T 24	2 9 15	0 M .28'44	28°50	8°52	15°10	14°13	23°13	4°31	1°48	7°37	13°10	13° 1	11°12	21°23	18°36	T 24
F 25	2 13 11	1°28'28	14 M 4	10°27	15°57	14°49	23°21	4°33	1°46	7°39	13° 9	12°54	11° 9	21°30	18°36	F 25
S 26	2 17 8	2°28'14	29°17	12° 1	16°43	15°25	23°30	4°34	1°44	7°41	13° 8	12°46	11° 6	21°36	18°36	S 26
S 27	2 21 4	3°28'02	14 × 18	13°35	17°28	16° 2	23°38	4°36	1°42	7°43	13° 7	12°38	11° 3	21°43	18°36	S 27
M28	2 25 1	4°27'52	29° 1	15° 9	18°12	16°38	23°46	4°38	1°40	7°45	13° 6	12°32	10°59	21°50	18°D36	M28
T 29	2 28 57	5°27'43	13 る 18	16°41	18°55	17°14	23°53	4°40	1°38	7°47	13° 5	12°28	10°56	21°56	18°36	T 29
W30	2 32 54	6°27'37	27° 8	18°14	19°38	17°50	24° 1	4°42	1°36	7°49	13° 4	12°26	10°53	22° 3	18°36	W30
T 31	2 36 50	7 M 27'31	10≈32	19 M .46	20 ∡ 19	18 m 26	24 Ω 9	4≈44	1 Ⅱ 33	7 ≏ 51	138 3	12°D25	10 m 50	22810	18 ≈ 36	T 31

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	decl	decl lat	decl	lat d	ecl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
T 1 W 2 T 3	3 s 4 3 27 3 51	18 s 26 4 n 5 17 59 4 2 16 31 3 3	3 1 8	1 47 22	18 3 20	12n38 12 25 12 12	1 17	15n30 15 27 15 24	0n35 0 35 0 35		0 41	20n26 20 26 20 26	0s12 0 12 0 12	1 s26 1 27 1 27	1n22 1 22 1 22	0n17 16s19 0 17 16 19 0 17 16 19	6 24	6n54 6 55 6 56	12 53	8 s41 8 42 8 42	6n46 6 46 6 45
F 4 S 5	4 14		8 0s24		55 3 29	11 59 11 46	1 18	15 21 15 17	0 35		0 41	20 25	0 12 0 12 0 12	1 28 1 29	1 22 1 22 1 22	0 16 16 20 0 16 16 20	6 23	6 57	12 56 12 58	8 43 8 44	6 45 6 44
S 6 M 7 T 8 W 9	5 0 5 23 5 46 6 9	7 44 0 2 3 59 0s4 0 7 1 4 3n43 2 4	2 2 43 7 3 29 7 4 15	1 28 23 1 23 24 1 18 24		11 20 11 7 10 53	1 19 1 19 1 20	15 5	0 36 0 36 0 36		0 41 0 41 0 41	20 25 20 25 20 24 20 24	0 12 0 12 0 12 0 12	1 30 1 31 1 32 1 33	1 22 1 23 1 23 1 23	0 15 16 20 0 15 16 20 0 15 16 20 0 14 16 20	6 22 6 22 6 24	7 0 7 1 7 2 7 3	13 1 13 2 13 4	8 45 8 46 8 47 8 47	6 44 6 44 6 43 6 43
T 10 F 11 S 12		7 22 3 3 10 41 4 1 13 33 4 4	9 5 46		34 3 54 49 3 58 3 4 2		1 20	15 2 14 59 14 56	0 36 0 36 0 36	19 49	0 41	20 24 20 23 20 23	0 12 0 12 0 12	1 33 1 34 1 35	1 23 1 23 1 23	0 14 16 20 0 13 16 21 0 13 16 21	6 25 6 28 6 30	7 5 7 6 7 7		8 48 8 49 8 50	6 42 6 42 6 41
S 13 M14 T 15 W16 T 17 F 18 S 19	7 39 8 1 8 24 8 46 9 8 9 30 9 51	17 30 5 1 18 23 5 18 27 4 3 17 39 4 15 59 3 1	1 8 42	0 49 25 0 42 25 0 36 25 0 29 26 0 22 26	17 4 6 30 4 9 43 4 13 55 4 16 6 4 19 18 4 23 28 4 26	10 0 9 47 9 33 9 20 9 6 8 52 8 39	1 21 1 21 1 21 1 22 1 22 1 22 1 23	14 53 14 50 14 47 14 44 14 42 14 39 14 36	0 37 0 37 0 37 0 37 0 37 0 37 0 38	19 49 19 49 19 49 19 49	0 41 0 41 0 41 0 41 0 41	20 22 20 22 20 21	0 12 0 12 0 12 0 12 0 12 0 12 0 12	1 36 1 37 1 38 1 39 1 39 1 40 1 41	1 23 1 23 1 23 1 23 1 23 1 23 1 23	0 13 16 21 0 12 16 21 0 12 16 21 0 11 16 21 0 11 16 21 0 11 16 21 0 10 16 21	6 33 6 35 6 37 6 38 6 38 6 38 6 37	7 14	13 11 13 12	8 50 8 51 8 52 8 52 8 53 8 54 8 54	6 41 6 40 6 40 6 40 6 39 6 39 6 38
S 20 M21 T 22 W23 T 24 F 25 S 26	10 13 10 35 10 56 11 17 11 38 11 59 12 19	6 9 0n 1 41 1 2 3 s 1 2 3 7 36 3 4 11 46 4 2	5 13 29 8 14 7 1 14 44 9 15 21	0 2 26 0s 5 26 0 11 27 0 18 27 0 25 27	20 4 41	8 25 8 11 7 58 7 44 7 30 7 17 7 3	1 23 1 24 1 24 1 24 1 25	14 28 14 25		19 48 19 47 19 47 19 47 19 46	0 41 0 41 0 41 0 41 0 41	20 20 20 20 20 20 20 19 20 19 20 18 20 18	0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12	1 42 1 43 1 43 1 44 1 45 1 46 1 47	1 23 1 23 1 23 1 23 1 23 1 23 1 23	0 10 16 22 0 10 16 22 0 9 16 22 0 9 16 22 0 8 16 22 0 8 16 22 0 8 16 22	6 37 6 37 6 38 6 40 6 43	7 18 7 19 7 20 7 22 7 23	13 22 13 24 13 25	8 55 8 56 8 56 8 57 8 57 8 58 8 58	6 38 6 37 6 37 6 36 6 36 6 35 6 35
S 27 M28 T 29 W30 T 31	13 40	18 31 4 5 18 23 4 2 17 8 3 3	7 16 31 4 17 5 4 17 38 9 18 11 3 18 s 42	0 45 27 0 52 27 0 58 27		6 35 6 21 6 8	1 25 1 26 1 26	14 15 14 13 14 10 14 8 14n 6	0 39 0 40 0 40	19 45	0 41 0 41 0 41	20 17	-	1 47 1 48 1 49 1 50 1 s51	1 23 1 23 1 23 1 23 1 23 1 n23	0 7 16 22 0 7 16 22 0 7 16 22 0 6 16 22 0n 6 16s22	6 51 6 53 6 54	7 26 7 28 7 29	13 32	8 59 8 59 9 0 9 0 9s 1	6 35 6 34 6 34 6 33 6n33

Julian Day Number = 2491629.5, Delta T = 97.88 sec Ecliptic obliquity = $23^{\circ}25'22$, Nutation = - $0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}16'25$, Lahiri = $25^{\circ}23'26$

NOVEMBER 2109 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ð	4	ħ)Å(¥	В	₽.	v	Ç	Ŷ,	Day
F 1	2 40 47	8ML27'27	23≈33	21 M 17	20 х 59	19 m) 2	24Ω16	4≈46	1°R31	7 ≙ 53	13°R 1	12 Mp 26	10 m)47	22817	18≈36	F 1
S 2	2 44 44	9°27'25	6 ∺ 13	22°48	21°37	19°38	24°23	4°49	1Ⅱ29	7°55	138 0	12°R27	10°44	22°23	18°37	S 2
S 3	2 48 40	10°27'25	18°38	24°18	22°15	20°14	24°30	4°51	1°27	7°57	12°59	12°27	10°40	22°30	18°37	S 3
M 4	2 52 37	11°27'26	0 Υ 51	25°48	22°51	20°50	24°37	4°54	1°24	7°59	12°58	12°25	10°37	22°37	18°37	M 4
T 5	2 56 33	12°27'29	12°55	27°17	23°27	21°26	24°44	4°56	1°22	8° 1	12°57	12°21	10°34	22°44	18°38	T 5
W 6	3 0 30	13°27'33	24°54	28°46	24° 0	22° 2	24°51	4°59	1°20	8° 3	12°56	12°13	10°31	22°50	18°38	W 6
T 7	3 4 26	14°27'39	6 8 48	0 ∡ 14	24°32	22°38	24°57	5° 2	1°17	8° 5	12°55	12° 4	10°28	22°57	18°39	T 7
F 8	3 8 23	15°27'47	18°41	1°42	25° 3	23°13	25° 4	5° 5	1°15	8° 7	12°54	11°52	10°24	23° 4	18°40	F 8
S 9	3 12 19	16°27'57	0 П 33	3° 9	25°33	23°49	25°10	5° 8	1°12	8° 9	12°52	11°39	10°21	23°10	18°40	S 9
S 10	3 16 16	17°28'09	12°26	4°36	26° 0	24°25	25°16	5°11	1°10	8°10	12°51	11°27	10°18	23°17	18°41	S 10
M11	3 20 12	18°28'23	24°21	6° 2	26°26	25° 0	25°22	5°14	1°8	8°12	12°50	11°15	10°15	23°24	18°42	M11
T 12	3 24 9	19°28'38	69521	7°27	26°51	25°36	25°28	5°17	1° 5	8°14	12°49	11° 5	10°12	23°31	18°43	T 12
W13	3 28 6	20°28'56	18°29	8°52	27°13	26°11	25°33	5°21	1° 3	8°16	12°48	10°58	10° 9	23°37	18°44	W13
T 14	3 32 2	21°29'15	0 Ω 46	10°16	27°34	26°47	25°39	5°24	1° 0	8°18	12°47	10°53	10° 5	23°44	18°45	T 14
F 15	3 35 59	22°29'36	13°19	11°39	27°53	27°22	25°44	5°28	0°58	8°19	12°46	10°51	10° 2	23°51	18°46	F 15
S 16	3 39 55	23°29'59	26°10	13° 2	28° 9	27°57	25°49	5°31	0°55	8°21	12°45	10°D51	9°59	23°57	18°47	S 16
S 17	3 43 52	24°30'24	9 m 24	14°23	28°24	28°33	25°54	5°35	0°53	8°23	12°44	10°R51	9°56	24° 4	18°49	S 17
M18	3 47 48	25°30'51	23° 5	15°43	28°37	29° 8	25°59	5°39	0°50	8°24	12°42	10°51	9°53	24°11	18°50	M18
T 19	3 51 45	26°31'20	7 ≏ 15	17° 2	28°48	29°43	26° 3	5°43	0°48	8°26	12°41	10°49	9°49	24°18	18°51	T 19
W20	3 55 41	27°31'51	21°52	18°19	28°56	0 ჲ 18	26° 8	5°47	0°45	8°28	12°40	10°44	9°46	24°24	18°53	W20
T 21	3 59 38	28°32'23	6 M .53	19°35	29° 2	0°53	26°12	5°51	0°43	8°29	12°39	10°36	9°43	24°31	18°54	T 21
F 22	4 3 35	29°32'57	22°10	20°50	29° 6	1°28	26°16	5°55	0°40	8°31	12°38	10°26	9°40	24°38	18°56	F 22
S 23	4 7 31	0 ,⊼ 33'33	7 .₹ 31	22° 2	29°R 8	2° 3	26°20	5°59	0°38	8°32	12°37	10°14	9°37	24°44	18°57	S 23
S 24	4 11 28	1°34'10	22°45	23°12	29° 7	2°38	26°24	6° 3	0°35	8°34	12°36	10° 3	9°34	24°51	18°59	S 24
M25	4 15 24	2°34'49	7 云 42	24°19	29° 3	3°13	26°27	6° 8	0°33	8°35	12°35	9°53	9°30	24°58	19° 1	M25
T 26	4 19 21	3°35'29	22°13	25°23	28°58	3°47	26°31	6°12	0°30	8°37	12°34	9°46	9°27	25° 5	19° 3	T 26
W27	4 23 17	4°36'09	6≈14	26°24	28°49	4°22	26°34	6°17	0°28	8°38	12°33	9°41	9°24	25°11	19° 5	W27
T 28	4 27 14	5°36'51	19°45	27°21	28°39	4°57	26°37	6°21	0°25	8°40	12°32	9°38	9°21	25°18	19° 6	T 28
F 29	4 31 11	6°37'34	2) (48	28°14	28°25	5°31	26°40	6°26	0°23	8°41	12°31	9°38	9°18	25°25	19° 8	F 29
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S 3 M 4 T 5 W 6	14 57 15 16 15 34 15 52	1 9 1 37 2n43 2 35	20 38	1 23 28 2 4 51 1 29 28 5 4 51 1 35 28 6 4 51 1 41 28 7 4 50	4 58 1 28 4 44 1 28	13 55 0 41	19 41 0 41	20 14 0 12 20 14 0 12 20 14 0 12 20 13 0 12	1 54 1 23 1 54 1 23	0 5 16 22 0 5 16 22 0 4 16 22 0 4 16 22	6 53 6 54 6 56 6 58	7 34 1: 7 35 1: 7 36 1: 7 37 1:	3 40 3 42	9 2 6 31 9 2 6 31 9 2 6 30 9 3 6 30
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M11 T 12 W13 T 14 F 15 S 16	17 19 17 35 17 51 18 7 18 23	18 24 4 54 18 43 4 34 18 11 4 0 16 47 3 16 14 34 2 21	23 22 2 23 41 2 23 58 2 5 24 15 2 24 30 2	2 1 28 7 4 45 2 6 28 5 4 43 2 10 28 3 4 40 2 14 28 1 4 38 2 18 27 58 4 34 2 21 27 55 4 31 2 24 27 51 4 27	3 21 1 30 3 7 1 30 2 54 1 30 2 40 1 30 2 26 1 31	13 43 0 42 13 42 0 42 13 40 0 43	19 37 0 41 19 36 0 41 19 35 0 41 19 34 0 41 19 33 0 41	20 11 0 12 20 10 0 12 20 10 0 12 20 10 0 12 20 9 0 12 20 9 0 12	1 58 1 23 1 59 1 23 2 0 1 23 2 0 1 23 2 1 1 24	0 3 16 22 0 3 16 22 0 3 16 22 0 2 16 22 0 2 16 22 0 2 16 21 0 2 16 21	7 10 7 20 7 24 7 27 7 29 7 29 7 30	7 43 11 7 44 11 7 46 11 7 47 11	3 50 3 52 3 53 3 54 3 56	9 4 6 27 9 4 6 27 9 4 6 27 9 4 6 26 9 4 6 26 9 4 6 25
S 17 M18 T 19 W20 T 21 F 22 S 23	18 53 19 8 19 22 19 36 19 49 20 2 20 15	3 44 1n 4 0s49 2 15 5 26 3 19 9 51 4 11 13 42 4 46	25 8 2 5 25 18 2 25 27 2 25 34 2 5 25 40 2	2 27 27 47 4 22 2 29 27 42 4 17 2 31 27 37 4 12 2 33 27 31 4 6 2 33 27 24 3 59 2 34 27 17 3 52 2 34 27 10 3 45	1 45 1 31 1 31 1 32 1 17 1 32 1 4 1 32 0 50 1 33	13 32 0 44 13 31 0 44 13 30 0 44 13 28 0 44 13 27 0 45	19 31 0 41 19 30 0 41 19 29 0 41 19 28 0 41	20 7 0 12 20 7 0 12 20 6 0 12 20 6 0 12 20 5 0 12	2 3 1 24 2 4 1 24 2 4 1 24 2 5 1 24 2 5 1 24	0 1 16 21 0 1 16 21 0 1 16 21 0 1 16 21 0 0 16 21 0 0 16 21 0 0 16 21	7 29 7 30 7 30 7 32 7 35 7 39 7 43	7 50 1: 7 52 1- 7 53 1- 7 54 1- 7 55 1- 7 56 1- 7 58 1-	4 0 4 1 4 3 4 4 4 5	9 4 6 25 9 4 6 24 9 4 6 23 9 4 6 23 9 4 6 23 9 4 6 22 9 4 6 22
	20 40 20 51 21 3	18 46 4 26 17 56 3 43 16 1 2 47 13 15 1 43 9 54 0 36	5 25 49 2 5 25 49 2 7 25 48 2 5 25 45 2 5 25 41 2	2 33 27 2 3 37 2 31 26 54 3 28 2 29 26 44 3 19 2 26 26 35 3 10 2 22 26 25 3 0 2 17 26 14 2 49 2 11 26 2 2 2 3 8	0 9 1 33 0s 4 1 34 0 18 1 34 0 31 1 34 0 45 1 34	13 23 0 46 13 22 0 46 13 21 0 46 13 21 0 46	19 23 0 41 19 22 0 41 19 21 0 41 19 20 0 41 19 19 0 41	20 4 0 12 20 3 0 12 20 3 0 12 20 2 0 12	2 7 1 24 2 8 1 24 2 8 1 24 2 9 1 24 2 9 1 24	0s 0 16 21 0 0 16 20 0 0 16 20 0 1 16 20 0 1 16 20 0 1 16 20 0 1 16 20 0s 1 16s20	7 48 7 51 7 54 7 56 7 57 7 57 7n57	8 2 1 8 4 1	4 9 4 11 4 12 4 13 4 15	9 4 6 22 9 4 6 21 9 4 6 21 9 4 6 20 9 4 6 20 9 3 6 19 9s 3 6n19

Julian Day Number = 2491660.5, Delta T = 97.93 sec Ecliptic obliquity = 23°25'21, Nutation = -0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°16'30, Lahiri = 25°23'30

DECEMBER 2109 00:00 UT

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M 2	4 43 0	9°39'49	9 Υ 57	0 중 20	27 K 32	7°14	26°47	6°40	0 Π 15	8°45	12828	9 m 34	9° 8	25°45	19°15	M 2
T 3	4 46 57	10°40'36	21°55	0°48	27° 9	7°49	26°49	6°45	0°13	8°46	12°27	9°29	9° 5	25°52	19°17	T 3
W 4	4 50 53	11°41'24	3 8 48	1° 9	26°44	8°23	26°51	6°50	0°10	8°48	12°26	9°21	9° 2	25°58	19°19	W 4
T 5	4 54 50	12°42'12	15°39	1°21	26°17	8°57	26°53	6°55	0° 8	8°49	12°25	9°10	8°59	26° 5	19°22	T 5
F 6	4 58 46	13°43'02	27°31	1°R23	25°49	9°31	26°54	7° 0	0° 5	8°50	12°24	8°56	8°55	26°12	19°24	F 6
S 7	5 2 43	14°43'53	9П25	1°15	25°18	10° 5	26°56	7° 6	0° 3	8°51	12°23	8°41	8°52	26°18	19°27	S 7
S 8	5 6 39	15°44'45	21°23	0°56	24°46	10°39	26°57	7°11	0° 1	8°52	12°22	8°26	8°49	26°25	19°29	S 8
M 9	5 10 36	16°45'38	3925	0°26	24°13	11°13	26°58	7°16	29 8 58	8°53	12°21	8°13	8°46	26°32	19°32	M 9
T 10	5 14 33	17°46'33	15°34	29 х 44	23°38	11°46	26°58	7°22	29°56	8°54	12°20	8° 1	8°43	26°39	19°34	T 10
W11	5 18 29	18°47'28	27°50	28°52	23° 3	12°20	26°59	7°27	29°54	8°55	12°19	7°52	8°40	26°45	19°37	W11
T 12	5 22 26	19°48'24	10 Ω 15	27°50	22°27	12°54	26°59	7°33	29°51	8°56	12°19	7°46	8°36	26°52	19°40	T 12
F 13	5 26 22	20°49'22	22°51	26°39	21°51	13°27	26°R59	7°38	29°49	8°57	12°18	7°44	8°33	26°59	19°42	F 13
S 14	5 30 19	21°50'20	5 m 43	25°21	21°14	14° 1	26°59	7°44	29°47	8°58	12°17	7°D43	8°30	27° 6	19°45	S 14
S 15	5 34 15	22°51'20	18°53	23°59	20°38	14°34	26°59	7°50	29°44	8°59	12°16	7°R43	8°27	27°12	19°48	S 15
M16	5 38 12	23°52'20	2 Ω 25	22°36	20° 2	15° 7	26°59	7°56	29°42	9° 0	12°15	7°43	8°24	27°19	19°51	M16
T 17	5 42 9	24°53'22	16°22	21°15	19°26	15°40	26°58	8° 1	29°40	9° 1	12°14	7°41	8°21	27°26	19°54	T 17
W18	5 46 5	25°54'25	0 M .42	19°57	18°52	16°13	26°57	8° 7	29°38	9° 2	12°14	7°37	8°17	27°32	19°57	W18
T 19	5 50 2	26°55'29	15°26	18°46	18°18	16°46	26°56	8°13	29°36	9° 3	12°13	7°30	8°14	27°39	20° 0	T 19
F 20	5 53 58	27°56'34	0 ∡ 126	17°43	17°46	17°19	26°55	8°19	29°33	9° 3	12°12	7°21	8°11	27°46	20° 3	F 20
S 21	5 57 55	28°57'39	15°36	16°51	17°15	17°52	26°53	8°25	29°31	9° 4	12°11	7°10	8° 8	27°53	20° 6	S 21
S 22	6 1 51	29°58'45	0 궁 44	16° 8	16°46	18°25	26°52	8°31	29°29	9° 5	12°11	7° 0	8° 5	27°59	20°10	S 22
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T 24	6 9 44	2° 1'00	0≈15	15°16	15°54	19°30	26°48	8°44	29°25	9° 6	12° 9	6°43	7°58	28°13	20°16	T 24
W25	6 13 41	3° 2'07	14°23	15° 6	15°31	20° 2	26°46	8°50	29°23	9° 7	12° 9	6°38	7°55	28°19	20°19	W25
T 26	6 17 38	4° 3'15	28° 3	15°D 6	15°10	20°35	26°43	8°56	29°21	9° 7	12° 8	6°36	7°52	28°26	20°23	T 26
F 27	6 21 34	5° 4'22	11) 13	15°16	14°52	21° 7	26°41	9° 3	29°19	9° 8	12° 7	6°D36	7°49	28°33	20°26	F 27
S 28	6 25 31	6° 5'30	23°59	15°33	14°36	21°39	26°38	9° 9	29°18	9° 8	12° 7	6°36	7°46	28°40	20°30	S 28
S 29	6 29 27	7° 6'38	6 Υ 24	15°59	14°22	22°11	26°35	9°16	29°16	9° 9	12° 6	6°R37	7°42	28°46	20°33	S 29
M30	6 33 24	8° 7'46	18°32	16°31	14°11	22°43	26°32	9°22	29°14	9° 9	12° 6	6°36	7°39	28°53	20°37	M30
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T 10 W11 T 12 F 13	22 40 22 46 22 52 22 57	18 17 4 52 18 51 4 31 18 34 3 58 17 25 3 14 15 25 2 20 12 40 1 18	24 3 0 23 45 0 23 27 0 23 7 0 22 46 0 22 24 0	0 54 24 25 1 5 0 38 24 9 0 50 0 20 23 53 0 35 0 1 23 36 0 20 0n18 23 19 0 4 0 39 23 1 0n11 0 59 22 43 0 27 1 19 22 25 0 43	2 44 1 37 2 57 1 37 3 10 1 37 3 23 1 37 3 35 1 38 3 48 1 38	13 17 0 48 13 17 0 49 13 17 0 49 13 17 0 49 13 17 0 49 13 17 0 50 13 17 0 50 13 17 0 50	19 8 0 41 19 6 0 41 19 5 0 41 19 4 0 41 19 2 0 41 19 1 0 41	19 57 0 12 19 56 0 12 19 56 0 12	2 13 1 25 2 13 1 25 2 14 1 25 2 14 1 25 2 15 1 25	0 2 16 18 0 2 16 17 0 2 16 17 0 2 16 17	8 18 8 24 8 29 8 33 8 37 8 39 8 40 8 40	8 14 14 26 8 15 14 27 8 17 14 28 8 18 14 30 8 19 14 31 8 20 14 32 8 21 14 34 8 23 14 35	9 1 6 16 9 1 6 16 9 0 6 15 9 0 6 15 8 59 6 14 8 59 6 14 8 59 6 14 8 58 6 13
T 17 W18 T 19 F 20	23 14 23 17 23 19 23 22 23 23 23 24 23 25	0 59 2 7 3 s 31 3 10 7 56 4 2 11 59 4 40 15 20 5 0	21 18 1 20 57 2 20 38 2 20 21 2 20 7 2	1 38 22 8 0 58 1 55 21 50 1 13 2 11 21 32 1 29 2 25 21 14 1 43 2 36 20 57 1 58 2 45 20 40 2 12 2 52 20 24 2 26	4 26 1 39 4 39 1 39 4 51 1 39 5 4 1 39 5 16 1 39	13 19 0 51 13 19 0 51 13 20 0 51 13 20 0 52	18 57 0 42 18 55 0 42 18 54 0 42 18 52 0 42 18 50 0 42	19 54 0 11 19 53 0 11 19 53 0 11 19 52 0 11 19 52 0 11 19 51 0 11 19 51 0 11	2 16 1 25 2 16 1 25 2 16 1 25 2 16 1 25 2 17 1 25 2 17 1 25 2 17 1 25	0 2 16 17 0 2 16 16 0 2 16 16 0 2 16 16 0 2 16 16 0 2 16 15 0 2 16 15	8 40 8 40 8 41 8 42 8 45 8 48 8 52	8 24 14 36 8 25 14 38 8 26 14 39 8 27 14 40 8 29 14 41 8 30 14 43 8 31 14 44	8 57 6 13 8 57 6 13 8 56 6 12 8 56 6 12 8 55 6 11 8 55 6 11 8 54 6 11
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Julian Day Number = 2491690.5, Delta T = 97.97 sec Ecliptic obliquity = $23^{\circ}25'21$, Nutation = - $0^{\circ}00'07$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $26^{\circ}16'34$, Lahiri = $25^{\circ}23'34$