

Astrodienst Ephemeris Tables for the year 1709

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 1709 00:00 UT

UANU	ANI T	09													00.0	0 01
Day	Sid.t	0	D	ğ	·	ď	4	ħ)Å(并	Р	v	S	Ç	Ŗ	Day
T 1	6 41 46	10 ට 31'47	14 m 24	18 ∡ 15	29 M 24	15°R50	28₽11	27°R39	22°R10	22°R57	26°R28	22°R16	23) 17	2≈48	18 궁 41	T 1
W 2	6 45 43	11°32'57	28°22	19°27	0 ₮ 36	159526	28°19	27 Ⅲ 34	22 N 8	22 Y 57	$26\Omega 27$	22°D16	23°14	2°55	18°47	W 2
T 3	6 49 39	12°34'06	11 ≏ 56	20°41	1°47	15° 2	28°26	27°30	22° 7	22°D57	26°26	22°R16	23°10	3° 1	18°52	T 3
F 4	6 53 36	13°35'16	25° 8	21°56	2°59	14°38	28°33	27°25	22° 5	22°57	26°25	22 米 16	23° 7	3° 8	18°58	F 4
S 5	6 57 32	14°36'26	8 M . 1	23°13	4°11	14°14	28°40	27°20	22° 3	22°57	26°24	22°13	23° 4	3°15	19° 3	S 5
S 6	7 1 29	15°37'36	20°39	24°32	5°23	13°50	28°47	27°16	22° 1	22°57	26°23	22° 8	23° 1	3°22	19° 9	S 6
M 7	7 5 25	16°38'46	3 ∡ 7 4	25°52	6°35	13°26	28°54	27°11	21°59	22°57	26°22	22° 0	22°58	3°28	19°14	M 7
T 8	7 9 22	17°39'56	15°19	27°13	7°47	13° 2	29° 1	27° 7	21°57	22°57	26°21	21°50	22°55	3°35	19°20	T 8
W 9	7 13 18	18°41'06	2 <u>7</u> °26	28°35	8°59	12°39	29° 7	27° 2	21°55	22°58	26°20	21°38	22°51	3°42	19°25	W 9
T 10	7 17 15	19°42'15	9 궁 27	2 <u>9</u> °58	10°11	12°16	29°13	26°58	21°53	22°58	26°19	21°25	22°48	3°48	19°31	T 10
F 11	7 21 12	20°43'24	21°22	1 る 22	11°24	11°53	29°20	26°53	21°51	22°58	26°18	21°12	22°45	3°55	19°36	F 11
S 12	7 25 8	21°44'32	3≈14	2°47	12°36	11°30	29°26	26°49	21°49	22°58	26°16	21° 2	22°42	4° 2	19°42	S 12
S 13	7 29 5	22°45'40	15° 3	4°12	13°48	11°8	29°31	26°45	21°46	22°59	26°15	20°53	22°39	4° 8	19°48	S 13
M14	7 33 1	23°46'47	26°52	5°39	15° 1	10°47	29°37	26°41	21°44	22°59	26°14	20°47	22°36	4°15	19°53	M14
T 15	7 36 58	24°47'54	8 ∺ 42	7° 6	16°13	10°26	29°43	26°37	21°42	22°59	26°13	20°44	22°32	4°22	19°59	T 15
W16	7 40 54	25°48'59	20°39	8°34	17°26	10° 5	29°48	26°33	21°40	23° 0	26°12	20°D43	22°29	4°28	20° 4	W16
T 17	7 44 51	26°50'04	2 Υ 45	10° 3	18°39	9°45	29°53	26°29	21°37	23° 0	26°10	20°44	22°26	4°35	20°10	T 17
F 18	7 48 47	27°51'08	15° 5	11°32	19°51	9°25	29°58	26°25	21°35	23° 1	26° 9	20°45	22°23	4°42	20°15	F 18
S 19	7 52 44	28°52'10	27°44	13° 2	21° 4	9° 7	0 M 3	26°21	21°33	23° 1	26° 8	20°R46	22°20	4°49	20°21	S 19
S 20	7 56 41	29°53'12	10848	14°32	22°17	8°48	0° 8	26°17	21°30	23° 2	26° 6	20°45	22°16	4°55	20°26	S 20
M21	8 0 37	0≈54'13	24°18	16° 4	23°30	8°31	0°13	26°14	21°28	23° 3	26° 5	20°42	22°13	5° 2	20°31	M21
T 22	8 4 34	1°55'12	8 Ⅱ 19	17°35	24°42	8°14	0°17	26°10	21°26	23° 3	26° 4	20°38	22°10	5° 9	20°37	T 22
W23	8 8 30	2°56'11	22°48	19° 8	25°55	7°58	0°21	26° 7	21°23	23° 4	26° 3	20°31	22° 7	5°15	20°42	W23
T 24	8 12 27	3°57'08	79542	20°41	27° 8	7°42	0°25	26° 3	21°21	23° 5	26° 1	20°24	22° 4	5°22	20°48	T 24
F 25	8 16 23	4°58'04	22°54	22°15	28°21	7°28	0°29	26° 0	21°18	23° 5	26° 0	20°17	22° 1	5°29	20°53	F 25
S 26	8 20 20	5°58'59	8 Ω 14	23°50	29°34	7°14	0°33	25°57	21°16	23° 6	25°58	20°11	21°57	5°35	20°59	S 26
S 27	8 24 16	6°59'53	23°30	25°25	0 궁 47	7° 1	0°37	25°54	21°13	23° 7	25°57	20° 6	21°54	5°42	21° 4	S 27
M28	8 28 13	8° 0'46	8 m /31	27° 1	2° 0	6°48	0°40	25°51	21°11	23° 8	25°56	20° 4	21°51	5°49	21° 9	M28
T 29	8 32 10	9° 1'39	23°11	28°37	3°14	6°37	0°43	25°48	21° 8	23° 9	25°54	20°D 3	21°48	5°55	21°15	T 29
W30	8 36 6	10° 2'30	7 ≏ 25	0≈14	4°27	6°26	0°46	25°45	21° 6	23°10	25°53	20° 4	21°45	6° 2	21°20	W30
T 31	8 40 3	11≈ 3'20	21 ≏ 11	1≈53	5 る 40	69916	0 M .49	25 Ⅱ 42	21& 3	23 Y 10	25 Ω 51	20 米 5	21) 42	6≈ 9	21 る 25	T 31

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T 1 W 2 T 3 F 4	23 s 4 22 59 22 53 22 47	0 9 0s32 6s18 1 42	21 50 1 22 4 1	1 14 18 7 2 15 1 5 18 23 2 13	26n24 3n54 26 29 3 55 26 33 3 56 26 37 3 57	9 43 1 15 9 46 1 15	22 24 1 3	14 52 0 45	7n18 1s46 7 18 1 45 7 18 1 45 7 18 1 45	23 13 11 12	3 s 4 3 4 3 4 3 4	2 s40 2 2 42 2 2 43 2 2 44 2	23 24 23 22	15 43 6 29
S 5					26 40 3 59			14 53 0 45 14 53 0 45	7 18 1 45		3 5	2 44 2		
S 6 M 7 T 8 W 9 T 10 F 11 S 12	22 19 22 10	25 29 4 46 27 39 5 1 28 28 5 1 27 56 4 48 26 6 4 22	22 54 0 23 4 0 23 14 0 23 22 0	0s 1 20 16 1 56	26 47 4 0 26 50 4 1 26 53 4 2 26 56 4 2 26 59 4 3	9 55 1 16 9 57 1 16 9 59 1 16 10 1 1 16 10 3 1 17	22 25 1 2 22 25 1 2 22 25 1 2 22 25 1 2	14 54 0 45 14 55 0 45 14 55 0 45 14 56 0 45 14 57 0 45 14 57 0 45 14 58 0 45	7 19 1 45	23 16 11 13 23 16 11 13 23 17 11 14 23 18 11 14	3 8 3 11 3 15 3 20 3 25 3 29 3 34	2 47 2 48 2 49 2 50 2 52 2 53 2 54 2	23 13 23 11 23 9 23 7 23 4	15 41 6 29
S 13 M14 T 15 W16 T 17 F 18 S 19	21 33 21 23 21 12 21 1 20 50 20 38	19 12 2 59 14 32 2 4 9 18 1 4 3 43 0 0 2n 5 1n 4 7 54 2 7	23 41 0 23 45 0 23 48 0 23 50 0 23 51 0 23 50 0	0 17 20 39 1 51 0 24 20 50 1 49 0 31 21 0 1 46 0 38 21 10 1 44 0 45 21 19 1 41 0 51 21 27 1 38	27 3 4 3 27 5 4 4 27 7 4 4 27 9 4 4 27 10 4 3	10 7 1 17 10 9 1 17 10 11 1 18 10 13 1 18 10 14 1 18 10 16 1 18	22 25 1 2 22 25 1 1 22 25 1 1	14 59 0 45	7 20 1 45 7 21 1 45	23 20 11 15 23 20 11 15 23 21 11 15 23 22 11 16 23 22 11 16	3 37 3 39 3 41 3 41 3 40 3 40	2 55 2 57 2 58 2 59 3 0 3 2 2 5	23 0 22 58 22 56	15 36 6 29 15 35 6 29 15 34 6 29 15 33 6 29 15 33 6 29 15 32 6 29
S 20 M21 T 22 W23 T 24 F 25 S 26	19 59 19 46 19 32 19 18 19 3	23 20 4 36 26 41 5 1 28 24 5 8	23 34 1 23 26 1 23 18 1 23 8 1	1 10 21 49 1 30 1 15 21 55 1 27 1 21 22 1 1 24 1 26 22 6 1 21 1 31 22 10 1 18	7 27 14 4 1 4 27 15 4 1 27 15 4 0 8 27 15 3 59	10 20 1 19 10 21 1 19 10 23 1 19 10 24 1 19 10 25 1 20	22 25 1 0 22 25 1 0	15 5 0 45 15 6 0 45 15 7 0 45 15 7 0 45 15 8 0 45	7 22 1 44 7 23 1 44	23 25 11 17	3 40 3 41 3 43 3 46 3 49 3 51 3 54	3 5 3 3 7 3 3 8 3	22 38 22 36 22 33	15 29 6 30 15 28 6 30 15 27 6 30 15 26 6 30 15 25 6 30
S 27 M28 T 29 W30 T 31	18 33 18 18 18 2 17 46 17 s29	9 21 1 2 2 27 0s17 4s22 1 33	22 29 1 22 13 1 21 56 1	1 43 22 19 1 9 1 47 22 20 1 6 1 50 22 21 1 3	27 15 3 57 5 27 14 3 56 27 14 3 55	10 28 1 20 10 29 1 21 10 30 1 21	22 26 0 59 22 26 0 59 22 26 0 59	15 10 0 45 15 11 0 45 15 12 0 45 15 12 0 45 15n13 0n45	7 23 1 44 7 24 1 44 7 24 1 44 7 24 1 44 7n25 1 s44	23 30 11 18 23 31 11 19	3 56 3 57 3 57 3 56 3 s56	3 13 2 3 14 2 3 16 3 3 17 2 3 s18 2	22 27 22 24 22 22	15 23 6 31 15 22 6 31 15 21 6 31

Julian Day Number = 2345259.5, Delta T = 11.75 sec Ecliptic obliquity = 23°28'46, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}40'41$, Lahiri = $19^{\circ}47'41$ Greg. Calendar

FEBRUARY 1709 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ф(卉	Р	ß	Ω	Ç	ę,	Day
F 1	8 43 59	12≈ 4'10	4 M .31	3≈31	6 ට 53	6°R 7	0ML52	25°R39	21°R 1	23 Y 11	25°R50	20) 7	21 米 38	6≈15	21 る 30	F 1
S 2	8 47 56	13° 4'58	17°27	5°11	8° 6	5958	0°54	25 Ⅱ 37	20 Ω 58	23°12	25 Ω 48	20°R 7	21°35	6°22	21°36	S 2
S 3	8 51 52	14° 5'46	0 √ 2	6°51	9°20	5°50	0°57	25°34	20°55	23°13	25°47	20° 5	21°32	6°29	21°41	S 3
M 4	8 55 49	15° 6'33	12°22	8°32	10°33	5°44	0°59	25°32	20°53	23°15	25°45	20° 2	21°29	6°36	21°46	M 4
T 5	8 59 45	16° 7'18	24°30	10°14	11°46	5°38	1° 1	25°30	20°50	23°16	25°44	19°58	21°26	6°42	21°51	T 5
W 6	9 3 42	17° 8'03	6 ට 29	11°57	13° 0	5°32	1° 2	25°28	20°47	23°17	25°43	19°52	21°22	6°49	21°56	W 6
T 7	9 7 3 9	18° 8'46	18°23	13°40	14°13	5°28	1° 4	25°26	20°45	23°18	25°41	19°46	21°19	6°56	22° 2	T 7
F 8	9 11 35	19° 9'29	0≈13	15°25	15°27	5°24	1° 5	25°24	20°42	23°19	25°40	19°40	21°16	7° 2	22° 7	F 8
S 9	9 15 32	20°10'09	12° 2	17°10	16°40	5°21	1° 6	25°22	20°40	23°20	25°38	19°35	21°13	7° 9	22°12	S 9
S 10	9 19 28	21°10'49	23°53	18°56	17°54	5°19	1° 7	25°20	20°37	23°22	25°37	19°31	21°10	7°16	22°17	S 10
M11	9 23 25	22°11'27	5) (46	20°43	19° 7	5°18	1°8	25°19	20°34	23°23	25°35	19°29	21° 7	7°22	22°22	M11
T 12	9 27 21	23°12'03	17°43	22°30	20°20	5°D17	1° 9	25°17	20°32	23°24	25°34	19°D28	21° 3	7°29	22°27	T 12
W13	9 31 18	24°12'37	29°48	24°19	21°34	5°18	1° 9	25°16	20°29	23°25	25°32	19°28	21° 0	7°36	22°32	W13
T 14	9 35 14	25°13'10	12 ° 2	26° 8	22°48	5°19	1°10	25°14	20°26	23°27	25°31	19°29	20°57	7°42	22°36	T 14
F 15	9 39 11	26°13'41	24°28	27°58	24° 1	5°20	1°R10	25°13	20°24	23°28	25°29	19°31	20°54	7°49	22°41	F 15
S 16	9 43 8	27°14'11	7 8 11	29°49	25°15	5°23	1° 9	25°12	20°21	23°30	25°28	19°33	20°51	7°56	22°46	S 16
S 17	9 47 4	28°14'38	20°13	1) 41	26°28	5°26	1° 9	25°11	20°19	23°31	25°26	19°34	20°48	8° 2	22°51	S 17
M18	9 51 1	29°15'04	3 Ⅱ 37	3°33	27°42	5°30	1° 9	25°10	20°16	23°33	25°25	19°R34	20°44	8° 9	22°56	M18
T 19	9 54 57	0 ∺ 15'28	17°26	5°26	28°55	5°34	1°8	25°10	20°13	23°34	25°23	19°33	20°41	8°16	23° 0	T 19
W20	9 58 54	1°15'50	1939	7°19	0≈ 9	5°39	1° 7	25° 9	20°11	23°36	25°22	19°31	20°38	8°22	23° 5	W20
T 21	10 2 50	2°16'10	16°15	9°13	1°23	5°45	1° 6	25° 8	20° 8	23°37	25°20	19°29	20°35	8°29	23°10	T 21
F 22	10 6 47	3°16'27	$1\Omega 10$	11° 6	2°36	5°52	1° 5	25° 8	20° 6	23°39	25°19	19°27	20°32	8°36	23°14	F 22
S 23	10 10 43	4°16'43	16°15	13° 0	3°50	5°59	1° 3	25° 8	20° 3	23°40	25°17	19°25	20°28	8°42	23°19	S 23
S 24	10 14 40	5°16'57	1 m) 23	14°54	5° 4	6° 7	1° 2	25° 8	20° 1	23°42	25°16	19°24	20°25	8°49	23°23	S 24
M25	10 18 37	6°17'09	16°24	16°47	6°17	6°15	1° 0	25°D 8	19°58	23°44	25°14	19°D23	20°22	8°56	23°28	M25
T 26	10 22 33	7°17'19	1 ₽ 10	18°39	7°31	6°24	0°58	25° 8	19°56	23°45	25°13	19°24	20°19	9° 3	23°32	T 26
W27	10 26 30	8°17'28	15°33	20°30	8°45	6°34	0°56	25° 8	19°53	23°47	25°11	19°24	20°16	9° 9	23°36	W27
T 28	10 30 26	9 ∺ 17'35	29 ॒ 30	22 米 20	9 ≈ 58	69644	0 M .53	25Ⅱ 8	19 Ω 51	23 Y 49	25 Ω 10	19 ∺ 25	20 ∺ 13	9 ≈ 16	23 ප් 41	T 28

Day	0	J)	ζ	5	ç)	C	3	2	4	ħ	l);	ł(4	(В	S		Ω	Ç	ď	;
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F 1	17 s12	16 s28	3 s38	21 s17	1 s56	22 s21	0n57	27n12	3n52	10s31	1n21	22n26	0s58	15n14	0n45	7n25	1 s44	23n32 111	n19 3 s	55 3	s19	22 s17	15 s 19	6n31
S 2	16 55	21 15	4 22	20 55	1 59	22 20	0 54	27 11	3 51	10 32	1 21	22 26	0 58	15 15	0 45	7 26	1 44	23 33 11	19 3 :	55 3	21	22 15	15 18	6 32
S 3	16 38	24 57	4 53	20 32	2 1	22 19		27 11	3 50	10 33	1 22	22 26	0 58	15 16	0 45	7 26	1 44	23 34 11	19 3 :			22 13		6 32
M 4	16 20		-	20 8	2 2			27 10		10 33		22 27		15 17		7 27		23 34 11				22 10		6 32
T 5	-	28 32		19 41	2 4	-	0 44			10 34		22 27		15 17		7 27		23 35 11		-	24	-	15 15	6 32
W 6	15 44 15 25	26 44		19 14 18 45			0 41 0 38			10 34 10 34		22 27 22 27		15 18 15 19		7 27 7 28	-	23 36 11 23 36 11	-		26	-	15 14 15 13	6 32 6 33
F 8	15 25	-		18 14		22 1	0 35			10 34		22 27		15 20		7 28	-	23 37 11	-		28	-	15 12	6 33
S 9	-	20 16		17 42		21 55	0 32			10 35		22 27		15 21	0 45			23 37 11				21 59		
S 10	14 28	15 43	2 16	17 8	2 4	21 49	0 28	27 2	3 40	10 35	1 23	22 27	0.57	15 22	0 45	7 29	1 43	23 38 11			31	21 56	15 10	6 33
M11	14 8			16 33		21 42	0 25			10 35		22 27		15 23		7 30		23 39 11	-	-		21 54		6 34
T 12	13 48	5 0	0 10	15 56		21 34	0 22	27 0	3 37	10 35		22 28	0 56	15 23	0 45	7 30	1 43	23 39 11	20 4	1 3	33	21 52	15 8	6 34
W13	13 28	0n47	0n57	15 18	1 58	21 26	0 19	26 58	3 36	10 35	1 24	22 28	0 56	15 24	0 45	7 31	1 43	23 40 11	20 4	11 3	34	21 49	15 7	6 34
T 14	13 8	6 37		14 38		21 17		26 57		10 35		22 28		15 25		7 32	-	23 41 11	-			21 47		6 34
F 15	12 48	-		13 57	1 52	_		26 55		10 35		22 28		15 26		7 32	-	23 41 11	-			21 45	-	6 35
S 16	12 27	17 36	3 54	13 15	1 48	20 58	0 10	26 53	3 31	10 34	1 25	22 28	0 55	15 27	0 45	7 33	1 43	23 42 11	21 4	9 3	38	21 42	15 4	6 35
S 17	-	22 15		12 31		20 47		26 52		10 34		22 28		15 28			-	23 42 11		-		21 40	-	
	11 45			11 46		20 36		26 50		10 34		22 28		15 28		7 34	-	23 43 11		-		21 37	-	6 36
T 19 W20	11 24 11 3	28 7 28 37		10 59 10 11	1 33	20 24 20 12	0 0	26 48 26 46		10 33 10 33		22 29 22 29		15 29 15 30		7 34 7 35		23 43 11 23 44 11				21 35 21 33		6 36 6 36
T 21	10 41		4 42	-	1 20			26 45		10 33		22 29		15 30	0 45	7 36		23 44 11				21 33		6 37
F 22	10 19	-, ,	3 56	-	1 13			26 43		10 32		22 29		15 32		7 36	-	23 45 11				21 28		6 37
S 23		18 45	2 53			19 31		26 41		10 31		22 29		15 32		7 37		23 46 11				21 25		6 37
S 24	9 35	12 31	1 38	6 49	0 56	19 16	0 14	26 39	3 19	10 30	1 26	22 30	0 54	15 33	0 45	7 37	1 43	23 46 11	21 4	2 3	48	21 23	14 55	6 38
M25	9 13	5 38	0 17	5 57	0 47			26 37		10 29		22 30		15 34		7 38	-	23 47 11			-	21 21		6 38
T 26	8 51	1 s27	1 s 5	5 4	0 37	18 45	0 20	26 35	3 16	10 28	1 27	22 30	0 54	15 35	0 45	7 39	1 43	23 47 11	21 4	12 3	51	21 18	14 53	6 38
W27	8 28	8 17	2 20					26 33		10 27		22 30		15 36		7 39	-	23 48 11			-	21 16	-	
T 28	8s 6	14 s30	3 s25	3 s 1 7	0s15	18s11	0 s26	26n31	3n13	10 s26	1n27	22n30	0 s53	15n36	0n45	7n40	1 s42	23n48 111	n21 4s	12 3	s53	21 s13	14s51	6n39

Julian Day Number = 2345290.5, Delta T = 11.73 sec Ecliptic obliquity = 23°28'47, Nutation = 0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°40'45, Lahiri = 19°47'46Greg. Calendar

MARCH 1709 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)ұ(卉	Р	S.	v	Ç	Ŗ	Day
F 1	10 34 23	10) 17'41	13 M 0	24) 7	11≈12	6955	0°R51	25耳 9	19°R48	23 Y 50	25°R 8	19 米 26	20 米 9	9≈23	23~345	F 1
S 2	10 38 19	11°17'44	26° 4	25°53	12°26	7° 6	0 M .48	25° 9	19 Ω 46	23°52	25 Ω 7	19°27	20° 6	9°29	23°49	S 2
S 3	10 42 16	12°17'47	8 ∡ 746	27°36	13°40	7°18	0°45	25°10	19°44	23°54	25° 5	19°R27	20° 3	9°36	23°53	S 3
M 4	10 46 12	13°17'48	21° 8	29°15	14°53	7°30	0°42	25°10	19°41	23°56	25° 4	19°27	20° 0	9°43	23°57	M 4
T 5	10 50 9	14°17'47	3 ਰ 15	0 Υ 51	16° 7	7°43	0°39	25°11	19°39	23°58	25° 3	19°27	19°57	9°49	24° 1	T 5
W 6	10 54 6	15°17'44	15°12	2°22	17°21	7°56	0°35	25°12	19°37	23°59	25° 1	19°26	19°53	9°56	24° 5	W 6
T 7	10 58 2	16°17'40	27° 3	3°48	18°35	8°10	0°32	25°13	19°34	24° 1	25° 0	19°26	19°50	10° 3	24° 9	T 7
F 8	11 1 59	17°17'34	8≈51	5° 9	19°48	8°25	0°28	25°14	19°32	24° 3	24°58	19°25	19°47	10° 9	24°13	F 8
S 9	11 5 55	18°17'26	20°41	6°24	21° 2	8°39	0°24	25°16	19°30	24° 5	24°57	19°25	19°44	10°16	24°17	S 9
S 10	11 9 52	19°17'16	2) 34	7°32	22°16	8°55	0°20	25°17	19°28	24° 7	24°56	19°D25	19°41	10°23	24°21	S 10
M11	11 13 48	20°17'04	14°35	8°34	23°30	9°10	0°15	25°19	19°26	24° 9	24°54	19°R25	19°38	10°29	24°24	M11
T 12	11 17 45	21°16'50	26°43	9°29	24°44	9°27	0°11	25°20	19°23	24°11	24°53	19°25	19°34	10°36	24°28	T 12
W13	11 21 41	22°16'35	9 Υ 2	10°16	25°57	9°43	0° 6	25°22	19°21	24°13	24°52	19°25	19°31	10°43	24°32	W13
T 14	11 25 38	23°16'17	21°31	10°55	27°11	10° 0	0° 2	25°24	19°19	24°15	24°50	19°25	19°28	10°49	24°35	T 14
F 15	11 29 35	24°15'57	4814	11°26	28°25	10°18	29 ≙ 57	25°26	19°17	24°17	24°49	19°24	19°25	10°56	24°39	F 15
S 16	11 33 31	25°15'35	17°11	11°49	29°39	10°36	29°51	25°28	19°15	24°19	24°48	19°23	19°22	11° 3	24°42	S 16
S 17	11 37 28	26°15'11	0П22	12° 4	0 ∺ 53	10°54	29°46	25°30	19°13	24°21	24°47	19°23	19°19	11° 9	24°46	S 17
M18	11 41 24	27°14'44	13°50	12°R11	2° 6	11°13	29°41	25°32	19°11	24°23	24°45	19°22	19°15	11°16	24°49	M18
T 19	11 45 21	28°14'15	27°35	12°10	3°20	11°32	29°35	25°35	19°10	24°25	24°44	19°D22	19°12	11°23	24°52	T 19
W20	11 49 17	29°13'44	119937	12° 1	4°34	11°51	29°30	25°37	19°8	24°27	24°43	19°22	19° 9	11°29	24°55	W20
T 21	11 53 14	0 Υ13'10	25°55	11°45	5°48	12°11	29°24	25°40	19° 6	24°29	24°42	19°23	19° 6	11°36	24°58	T 21
F 22	11 57 10	1°12'34	10Ω26	11°22	7° 2	12°31	29°18	25°42	19° 4	24°31	24°41	19°24	19° 3	11°43	25° 1	F 22
S 23	12 1 7	2°11'56	25° 7	10°52	8°15	12°52	29°12	25°45	19° 3	24°33	24°39	19°25	18°59	11°49	25° 4	S 23
S 24	12 5 4	3°11'15	9 ₯ 52	10°17	9°29	13°13	29° 6	25°48	19° 1	24°35	24°38	19°25	18°56	11°56	25° 7	S 24
M25	12 9 0	4°10'33	24°34	9°37	10°43	13°34	29° 0	25°51	18°59	24°38	24°37	19°R25	18°53	12° 3	25°10	M25
T 26	12 12 57	5° 9'48	9 ₾ 7	8°54	11°57	13°55	28°53	25°54	18°58	24°40	24°36	19°25	18°50	12° 9	25°13	T 26
W27	12 16 53	6° 9'01	23°25	8° 7	13°11	14°17	28°47	25°57	18°56	24°42	24°35	19°23	18°47	12°16	25°16	W27
T 28	12 20 50	7° 8'12	7 m 22	7°18	14°24	14°39	28°40	26° 1	18°55	24°44	24°34	19°21	18°44	12°23	25°18	T 28
F 29	12 24 46	8° 7'21	20°56	6°29	15°38	15° 2	28°34	26° 4	18°53	24°46	24°33	19°18	18°40	12°29	25°21	F 29
S 30	12 28 43	9° 6'28	4 ₹ 6	5°39	16°52	15°24	28°27	26° 8	18°52	24°48	24°32	19°16	18°37	12°36	25°24	S 30
S 31	12 32 39	10 ° 5'34	16 ₹ 52	4Υ 51	18 ∺ 6	159647	28 ჲ 20	26 I I11	18 Q 50	24 Y 51	24 \O 31	19 米 13	18) 34	12≈43	25 පි 26	S 31

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F 1 S 2	7 s43 7 20	19 s 49 4 s 15 24 1 4 5 1		s 4 17 s 5 4 0 s 2 8 n 8 17 3 6 0 3 1				15n37 0n45 15 38 0 45		23n49 11n21 23 49 11 21	4 s 1 1 4 1 1	3 s 5 4 2 1 s 1 1 3 5 6 2 1 8	14s50 6n39 14 49 6 40
S 3 M 4 T 5 W 6	6 58 6 35 6 11 5 48		0n13 0 1 3 0	47 16 39 0 39	26 22 3 7	10 22 1 28	22 31 0 52 22 31 0 52		7 43 1 42 7 44 1 42	23 50 11 21 23 50 11 21 23 51 11 21 23 51 11 21	4 11 4 11 4 11 4 11	3 58 21 3	14 48 6 40 14 47 6 40 14 45 6 41 14 44 6 41
T 7 F 8 S 9	5 25	24 54 4 12 21 24 3 27 17 2 2 33	2 39 1 3 23 1 4 5 1	14 15 58 0 44 27 15 38 0 46 41 15 16 0 48	26 15 3 2 26 13 3 1 26 11 2 59	10 18 1 28 10 16 1 29 10 15 1 29	22 32 0 52 22 32 0 52 22 32 0 51	15 41 0 45 15 42 0 45 15 43 0 45	7 45 1 42 7 46 1 42 7 46 1 42	23 52 11 21 23 52 11 21 23 52 11 21	4 11 4 12 4 12	4 2 20 56 4 3 20 54 4 4 20 51	14 43 6 42 14 42 6 42 14 41 6 42
S 10 M11 T 12 W13 T 14	4 15 3 51 3 28 3 4 2 41	12 0 1 32 6 30 0 27 0 41 0n40 5n13 1 47 11 1 2 49	5 21 2 5 54 2 6 23 2 6 49 2	19 14 10 0 55 31 13 47 0 57 42 13 24 0 59	26 6 2 56 26 3 2 55 26 0 2 53 25 58 2 52	10 11 1 29 10 10 1 29 10 8 1 29 10 6 1 30	22 33 0 51 22 33 0 51 22 33 0 51 22 34 0 50	15 45 0 45 15 45 0 45 15 46 0 45	7 48 1 42 7 49 1 42 7 49 1 42 7 50 1 42	23 54 11 20 23 54 11 20 23 54 11 20	4 12 4 12 4 12 4 12 4 12	4 6 20 49 4 7 20 46 4 8 20 44 4 9 20 41 4 11 20 39	14 39 6 43 14 38 6 44 14 37 6 44 14 36 6 45
F 15 S 16	2 17 1 53			1 12 36 1 3	25 55 2 51 25 52 2 49	10 2 1 30		15 47 0 45 15 47 0 45	7 51 1 42 7 52 1 42		4 12 4 12	4 12 20 36 4 13 20 33	
S 17 M18 T 19 W20 T 21 F 22	0 18 0n 5	25 9 5 0 27 43 5 16 28 41 5 14 27 51 4 54 25 10 4 15 20 51 3 20	7 50 3 7 54 3 7 54 3 7 50 3	16 11 47 1 7	25 37 2 42	9 58 1 30 9 56 1 30 9 54 1 30 9 52 1 31	22 35 0 50 22 35 0 50	15 49 0 45 15 50 0 45 15 50 0 45	7 52 1 42 7 53 1 42 7 54 1 42 7 55 1 42 7 56 1 42 7 56 1 42	23 56 11 20 23 56 11 20 23 57 11 19	4 13 4 13 4 13 4 13 4 13 4 12	4 14 20 31 4 16 20 28 4 17 20 26 4 18 20 23 4 19 20 21 4 21 20 18	14 32 6 47 14 31 6 47 14 30 6 47 14 29 6 48
S 23 S 24		15 13 2 11 8 42 0 53	7 29 3	27 9 39 1 15 24 9 13 1 17	25 30 2 40	9 48 1 31	22 36 0 49	15 51 0 45 15 52 0 45	7 57 1 42		4 12	4 22 20 16 4 23 20 13	14 27 6 49
M25 T 26 W27 T 28 F 29	-	17 41 3 55 22 29 4 38	6 29 3 6 3 3 5 35 2 5 5 2	13 8 19 1 19 5 7 52 1 21 55 7 25 1 22 44 6 57 1 23		9 36 1 31 9 33 1 31	22 37 0 48 22 37 0 48 22 37 0 48 22 38 0 48	15 52 0 45 15 53 0 45 15 53 0 45 15 53 0 45 15 54 0 45	8 0 1 42 8 0 1 42 8 1 1 42 8 2 1 42	23 58 11 19 23 58 11 19 23 59 11 19 23 59 11 18	4 12 4 12 4 12 4 13 4 14	4 27 20 5 4 28 20 3 4 29 20 0	14 24 6 50 14 23 6 51 14 22 6 51 14 21 6 52
S 30 S 31	3 37 4n 0			32 6 29 1 24 118 6s 1 1s25				15 54 0 45 15n55 0n45		23 59 11 18 23n59 11n18	4 15 4s16	4 31 19 58 4s32 19s55	

Julian Day Number = 2345318.5, Delta T = 11.72 sec Ecliptic obliquity = 23°28'47, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}40'49$, Lahiri = $19^{\circ}47'50$ Greg. Calendar

APRIL 1709 00:00 UT

Day	Sid.t	0	D	ğ	·	ď	4	ħ)f(并	Р	r	v	Ç	ę,	Day
M 1	12 36 36	11 ° 4'38	29 × 19	4°R 4	19 米 19	169511	28°R13	26∏15	18°R49	24 Y 53	24°R30	19°R12	18) (31	12≈49	25 중 28	M 1
T 2	12 40 33	12° 3'40	11 る 29	3 ℃ 20	20°33	16°34	28 ॒ 6	26°19	18 Ω 48	24°55	$24\Omega 29$	19°D11	18°28	12°56	25°31	T 2
W 3	12 44 29	13° 2'40	23°27	2°39	21°47	16°58	27°59	26°22	18°47	24°57	24°28	19) (12	18°25	13° 3	25°33	W 3
T 4	12 48 26	14° 1'39	5≈18	2° 3	23° 1	17°22	27°51	26°26	18°45	25° 0	24°27	19°13	18°21	13° 9	25°35	T 4
F 5	12 52 22	15° 0'35	17° 7	1°31	24°15	17°46	27°44	26°30	18°44	25° 2	24°26	19°15	18°18	13°16	25°37	F 5
S 6	12 56 19	15°59'30	28°58	1° 3	25°28	18°11	27°37	26°35	18°43	25° 4	24°26	19°16	18°15	13°23	25°39	S 6
S 7	13 0 15	16°58'23	10 ¥ 56	0°41	26°42	18°36	27°29	26°39	18°42	25° 6	24°25	19°18	18°12	13°29	25°41	S 7
M 8	13 4 12	17°57'14	23° 3	0°23	27°56	19° 1	27°22	26°43	18°41	25° 9	24°24	19°R18	18° 9	13°36	25°43	M 8
T 9	13 8 8	18°56'03	5 ℃ 24	0°12	29°10	19°26	27°15	26°48	18°40	25°11	24°23	19°17	18° 5	13°43	25°45	T 9
W10	13 12 5	19°54'50	17°58	0° 5	0 Υ 24	19°52	27° 7	26°52	18°39	25°13	24°23	19°14	18° 2	13°49	25°47	W10
T 11	13 16 1	20°53'35	0 8 48	0°D 4	1°37	20°17	26°59	26°57	18°39	25°15	24°22	19°10	17°59	13°56	25°48	T 11
F 12	13 19 58	21°52'19	13°53	0° 8	2°51	20°43	26°52	27° 1	18°38	25°18	24°21	19° 5	17°56	14° 3	25°50	F 12
S 13	13 23 55	22°51'00	27°13	0°17	4° 5	21°10	26°44	27° 6	18°37	25°20	24°20	19° 0	17°53	14° 9	25°51	S 13
S 14	13 27 51	23°49'39	10 Ⅱ 45	0°31	5°19	21°36	26°37	27°11	18°36	25°22	24°20	18°54	17°50	14°16	25°53	S 14
M15	13 31 48	24°48'16	24°28	0°49	6°32	22° 3	26°29	27°16	18°36	25°24	24°19	18°50	17°46	14°23	25°54	M15
T 16	13 35 44	25°46'51	8922	1°13	7°46	22°29	26°21	27°21	18°35	25°27	24°19	18°47	17°43	14°30	25°55	T 16
W17	13 39 41	26°45'24	22°23	1°40	9° 0	22°56	26°13	27°26	18°35	25°29	24°18	18°D46	17°40	14°36	25°57	W17
T 18	13 43 37	27°43'54	6Ω 32	2°12	10°14	23°24	26° 6	27°31	18°34	25°31	24°18	18°46	17°37	14°43	25°58	T 18
F 19	13 47 34	28°42'22	20°45	2°48	11°27	23°51	25°58	27°36	18°34	25°33	24°17	18°47	17°34	14°50	25°59	F 19
S 20	13 51 31	29°40'48	5 m) 3	3°28	12°41	24°19	25°50	27°41	18°34	25°36	24°17	18°48	17°31	14°56	26° 0	S 20
S 21	13 55 27	0 8 39'12	19°21	4°12	13°55	24°46	25°43	27°47	18°33	25°38	24°16	18°R49	17°27	15° 3	26° 1	S 21
M22	13 59 24	1°37'33	3 ॒ 36	4°59	15° 8	25°14	25°35	27°52	18°33	25°40	24°16	18°48	17°24	15°10	26° 2	M22
T 23	14 3 20	2°35'53	17°46	5°49	16°22	25°43	25°28	27°58	18°33	25°42	24°15	18°45	17°21	15°16	26° 2	T 23
W24	14 7 17	3°34'11	1 M .44	6°43	17°36	26°11	25°20	28° 3	18°33	25°45	24°15	18°40	17°18	15°23	26° 3	W24
T 25	14 11 13	4°32'26	15°28	7°40	18°49	26°39	25°13	28° 9	18°33	25°47	24°15	18°34	17°15	15°30	26° 4	T 25
F 26	14 15 10	5°30'41	28°54	8°39	20° 3	27° 8	25° 5	28°14	18°D33	25°49	24°14	18°26	17°11	15°36	26° 4	F 26
S 27	14 19 6	6°28'53	12 ×7 0	9°42	21°17	27°37	24°58	28°20	18°33	25°51	24°14	18°18	17° 8	15°43	26° 5	S 27
S 28	14 23 3	7°27'04	24°46	10°47	22°30	28° 6	24°50	28°26	18°33	25°54	24°14	18°10	17° 5	15°50	26° 5	S 28
M29	14 26 59	8°25'14	7 云 12	11°56	23°44	28°35	24°43	28°32	18°33	25°56	24°14	18° 4	17° 2	15°56	26° 5	M29
T 30	14 30 56	9823'22	19 る 23	13 ° 6	24 Y 58	2995 4	24 ₽ 36	28∏38	18 Ω 33	25 Y 58	24 Ω 13	18 ∺ 0	16 ∺ 59	16 ≈ 3	26 궁 6	T 30

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M 1	4n23	28 s39 5 s10	3n31 2n 4	5 s 3 3 1 s 2 6 24	n57 2n28	9 s 2 6	1n32	22n38	0 s47	15n55	0n45	8n 4	1 s42	23n59 11n18	4 s 1 7	4 s33	19s52	14s18 6n5	3
T 2	4 47	27 50 4 52	2 59 1 49		53 2 27		1 32		0 47	15 55	0 45	8 5	1 42	24 0 11 18	4 17	-	19 50		
W 3	5 10	25 43 4 21	2 29 1 33	4 36 1 28 24	48 2 25	9 21	1 32	22 39	0 47	15 56	0 45	8 6	1 42	24 0 11 18	4 17	4 36	19 47	14 16 6 5	,5
T 4	5 32	22 31 3 39	1 59 1 17	4 8 1 28 24	44 2 24	9 18	1 32	22 39	0 47	15 56	0 45	8 7	1 42	24 0 11 17	4 16	4 37	19 45	14 15 6 5	,5
F 5	5 55	18 24 2 48	1 32 1 1	3 39 1 29 24	40 2 23	9 15	1 32	22 40	0 47	15 56	0 45	8 8	1 42	24 0 11 17	4 16	4 38	19 42	14 15 6 5	6
S 6	6 18	13 34 1 49	1 6 0 44	3 10 1 30 24	35 2 22	9 13	1 32	22 40	0 46	15 57	0 45	8 9	1 42	24 0 11 17	4 15	4 39	19 39	14 14 6 5	6
S 7	6 41	8 11 0 46	0 42 0 28	2 42 1 30 24	31 2 21	9 10	1 32	22 40	0 46	15 57	0 45	8 9	1 42	24 0 11 17	4 15	4 40	19 37	14 13 6 5	7
M 8	7 3	2 27 0n21	0 21 0 12	2 13 1 31 24	26 2 19	9 7	1 32	22 40	0 46	15 57	0 45	8 10	1 42	24 0 11 17	4 15	4 42	19 34	14 12 6 5	,7
T 9	7 26	3n29 1 27	0 2 0s 3	1 43 1 31 24	21 2 18	9 5	1 32	22 41	0 46	15 58	0 44	8 11	1 42	24 0 11 16	4 15	4 43	19 31	14 11 6 5	8
W10	7 48	9 23 2 31	0s15 0 18	1 14 1 31 24	16 2 17	9 2	1 32	22 41	0 46	15 58	0 44	8 12	1 42	24 0 11 16	4 16	4 44	19 29	14 10 6 5	8
T 11	8 10	15 1 3 28	0 29 0 33	0 45 1 32 24	11 2 16	8 59	1 32	22 41	0 46	15 58	0 44	8 13	1 42	24 0 11 16	4 18	4 45	19 26	14 9 6 5	,9
F 12	8 32	20 5 4 15	0 40 0 47	0 16 1 32 24	6 2 15	8 57	1 32	22 41	0 45	15 58	0 44	8 13	1 42	24 0 11 16	4 20	4 47	19 23	14 9 6 5	,9
S 13	8 54	24 15 4 49	0 48 1 0	0n13 1 32 24	1 2 14	8 54	1 32	22 42	0 45	15 58	0 44	8 14	1 42	24 1 11 16	4 22	4 48	19 21	14 8 7	0
S 14	9 16	27 11 5 8	0 54 1 13	0 42 1 32 23	56 2 13	8 51	1 32	22 42	0 45	15 59	0 44	8 15	1 42	24 1 11 15	4 24	4 49	19 18	14 7 7	1
M15	9 37	28 31 5 10	0 58 1 25	1 12 1 32 23	50 2 11	8 48	1 32	22 42	0 45	15 59	0 44	8 16	1 42	24 1 11 15	4 26	4 50	19 15	14 6 7	1
T 16	9 59	28 6 4 53	0 59 1 36	1 41 1 32 23	45 2 10	8 46	1 32	22 42	0 45	15 59	0 44	8 17	1 42	24 1 11 15	4 27	4 52	19 13	14 5 7	2
W17	10 20	25 53 4 19	0 58 1 46	2 10 1 32 23	39 2 9	8 43	1 32	22 43	0 45	15 59	0 44	8 18	1 42	24 1 11 15	4 27	4 53	19 10	14 5 7	2
T 18	10 41	22 3 3 30	0 54 1 56	2 39 1 31 23	33 2 8	8 40	1 32	22 43	0 44	15 59	0 44	8 18	1 42	24 0 11 14	4 27	4 54	19 7	14 4 7	3
F 19	11 2	16 55 2 27	0 48 2 5	3 9 1 31 23	27 2 7	8 37	1 32	22 43	0 44	15 59	0 44	8 19	1 42	24 0 11 14	4 27	4 55	19 5	14 3 7	3
S 20	11 23	10 50 1 14	0 40 2 13	3 38 1 31 23	21 2 6	8 35	1 32	22 43	0 44	15 59	0 44	8 20	1 42	24 0 11 14	4 26	4 57	19 2	14 2 7	4
S 21	11 43	4 11 0s 3	0 29 2 21	4 7 1 30 23	15 2 5	8 32	1 32	22 44	0 44	15 59	0 44	8 21	1 42	24 0 11 14	4 26	4 58	18 59	14 2 7	4
M22	12 4	2 s 3 9 1 1 9	0 17 2 28	4 36 1 30 23	9 2 4	8 29	1 32	22 44	0 44	15 59	0 44	8 22	1 42	24 0 11 14	4 26	4 59	18 57	14 1 7	5
T 23	12 24	9 18 2 30	0 2 2 34	5 4 1 29 23	3 2 3	8 27	1 32	22 44	0 44	15 59	0 44	8 22	1 42	24 0 11 13	4 27	5 0	18 54	14 0 7	6
W24	12 44	15 24 3 31	0n14 2 39	5 33 1 29 22	57 2 2	8 24	1 31	22 44	0 43	15 59	0 44	8 23	1 42	24 0 11 13	4 29	5 2	18 51	14 0 7	6
T 25	13 3	20 37 4 18	0 32 2 44	6 2 1 28 22	50 2 1	8 21	1 31	22 45	0 43	15 59	0 44	8 24	1 42	24 0 11 13	4 32	5 3	18 48	13 59 7	7
F 26	13 23	24 40 4 50	0 52 2 48	6 30 1 27 22	43 2 (8 19	1 31	22 45	0 43	15 59	0 44	8 25	1 42	24 0 11 13	4 35	5 4	18 46	13 58 7	7
S 27	13 42	27 19 5 6	1 13 2 51	6 59 1 26 22	37 1 59	8 16	1 31	22 45	0 43	15 59	0 44	8 26	1 42	24 0 11 12	4 38	5 5	18 43	13 58 7	8
S 28	14 1	28 28 5 5	1 36 2 54	7 27 1 25 22	30 1 58	8 13	1 31	22 45	0 43	15 59	0 44	8 26	1 42	24 0 11 12	4 41	5 7	18 40	13 57 7	8
M29	14 20	28 7 4 51	2 1 2 56	7 55 1 24 22	23 1 57	8 11	1 31	22 46	0 43	15 59	0 44	8 27	1 42	23 59 11 12	4 44	5 8	18 38	13 56 7	9
T 30	14n39	26 s25 4 s23	2n27 2s58	8n23 1 s23 22	n16 1n56	8s 8	1n31	22n46	0 s43	15n59	0n44	8n28	1 s42	23n59 11n12	4 s45	5 s 9	18 s 3 5	13 s56 7n	9

 $\label{eq:Julian Day Number = 2345349.5, Delta T = 11.70 sec} \\ Ecliptic obliquity = 23°28'47, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°40'53, Lahiri = 19°47'54Greg. Calendar$

MAY 1709 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	Ж,	并	В	ß	ນ	Ç	ę,	Day
W 1	14 34 53	10821'28	1≈22	14 Υ 19	26 Y 12	29933	24°R29	28 Ⅱ 44	18 Ω 33	26 Y 0	24°R13	17°R58	16 ¥ 56	16≈10	26 궁 6	W 1
T 2	14 38 49	11°19'33	13°14	15°35	27°25	0 Ω 3	24 ≏ 22	28°50	18°33	26° 2	24 Ω 13	17°D57	16°52	16°16	26°R 6	T 2
F 3	14 42 46	12°17'37	25° 3	16°53	28°39	0°33	24°14	28°56	18°34	26° 5	24°13	17) 58	16°49	16°23	26° 6	F 3
S 4	14 46 42	13°15'39	6 ¥ 56	18°13	29°53	1° 2	24° 8	29° 2	18°34	26° 7	24°13	17°59	16°46	16°30	26° 6	S 4
S 5	14 50 39	14°13'40	18°56	19°36	18 6	1°32	24° 1	29° 9	18°35	26° 9	24°13	17°R59	16°43	16°36	26° 5	S 5
M 6	14 54 35	15°11'39	1 Y 10	21° 1	2°20	2° 2	23°54	29°15	18°35	26°11	24°D13	17°58	16°40	16°43	26° 5	M 6
T 7	14 58 32	16° 9'37	13°40	22°28	3°34	2°33	23°47	29°21	18°36	26°13	24°13	17°55	16°36	16°49	26° 5	T 7
W 8	15 2 28	17° 7'34	26°28	23°57	4°47	3° 3	23°41	29°28	18°36	26°16	24°13	17°50	16°33	16°56	26° 5	W 8
T 9	15 6 25	18° 5'29	9 8 37	25°28	6° 1	3°34	23°34	29°34	18°37	26°18	24°13	17°42	16°30	17° 3	26° 4	T 9
F 10	15 10 22	19° 3'23	23° 5	27° 2	7°15	4° 4	23°28	29°41	18°38	26°20	24°13	17°33	16°27	17° 9	26° 4	F 10
S 11	15 14 18	20° 1'15	6 Ⅱ 50	28°37	8°28	4°35	23°22	29°47	18°39	26°22	24°13	17°23	16°24	17°16	26° 3	S 11
S 12	15 18 15	20°59'06	20°49	0 8 15	9°42	5° 6	23°15	29°54	18°39	26°24	24°13	17°13	16°21	17°23	26° 2	S 12
M13	15 22 11	21°56'55	4956	1°55	10°55	5°37	23° 9	0ର୍ତ୍ତ 1	18°40	26°26	24°14	17° 4	16°17	17°29	26° 2	M13
T 14	15 26 8	22°54'43	19°8	3°37	12° 9	6° 8	23° 4	0° 8	18°41	26°28	24°14	16°58	16°14	17°36	26° 1	T 14
W15	15 30 4	23°52'28	3 Ω 21	5°21	13°23	6°39	22°58	0°14	18°42	26°30	24°14	16°54	16°11	17°43	26° 0	W15
T 16	15 34 1	24°50'12	17°33	7° 7	14°36	7°11	22°52	0°21	18°43	26°32	24°14	16°52	16° 8	17°49	25°59	T 16
F 17	15 37 58	25°47'55	1 M 40	8°55	15°50	7°42	22°47	0°28	18°44	26°34	24°15	16°D52	16° 5	17°56	25°58	F 17
S 18	15 41 54	26°45'35	15°43	10°45	17° 4	8°14	22°41	0°35	18°45	26°36	24°15	16°R53	16° 2	18° 3	25°57	S 18
S 19	15 45 51	27°43'15	29°41	12°38	18°17	8°46	22°36	0°42	18°47	26°38	24°15	16°52	15°58	18° 9	25°55	S 19
M20	15 49 47	28°40'52	13 ≏ 32	14°32	19°31	9°17	22°31	0°49	18°48	26°40	24°16	16°50	15°55	18°16	25°54	M20
T 21	15 53 44	29°38'28	27°16	16°29	20°44	9°49	22°26	0°56	18°49	26°42	24°16	16°45	15°52	18°23	25°53	T 21
W22	15 57 40	0耳36′03	10 M 50	18°27	21°58	10°21	22°21	1° 3	18°50	26°44	24°17	16°37	15°49	18°29	25°51	W22
T 23	16 1 37	1°33'36	24°12	20°28	23°12	10°53	22°17	1°10	18°52	26°46	24°17	16°27	15°46	18°36	25°50	T 23
F 24	16 5 33	2°31'09	7 . ₹20	22°30	24°25	11°26	22°12	1°17	18°53	26°48	24°18	16°15	15°42	18°43	25°48	F 24
S 25	16 9 30	3°28'40	20°13	24°34	25°39	11°58	22° 8	1°25	18°55	26°50	24°18	16° 2	15°39	18°49	25°47	S 25
S 26	16 13 27	4°26'10	2 ප් 51	26°40	26°53	12°30	22° 4	1°32	18°56	26°52	24°19	15°51	15°36	18°56	25°45	S 26
M27	16 17 23	5°23'39	15°12	28°47	28° 6	13° 3	22° 0	1°39	18°58	26°54	24°19	15°41	15°33	19° 3	25°43	M27
T 28	16 21 20	6°21'08	27°20	0Д56	29°20	13°36	21°56	1°47	19° 0	26°56	24°20	15°33	15°30	19° 9	25°42	T 28
W29	16 25 16	7°18'35	9≈17	3° 6	0 Ⅱ 33	14° 8	21°52	1°54	19° 1	26°58	24°21	15°28	15°27	19°16	25°40	W29
T 30	16 29 13	8°16'02	21° 8	5°17	1°47	14°41	21°49	2° 1	19° 3	26°59	24°21	15°25	15°23	19°23	2 <u>5</u> °38	T 30
F 31	16 33 9	9∏13'28	2) 57	7Ⅱ28	3 I 1	15 Ω 14	21 ≏ 46	295 9	19 N 5	27 ℃ 1	24 \O 22	15) 24	15 ∺ 20	19≈29	25 궁 36	F 31

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S 5 M 6 T 7	16 8 16 25 16 42	4 18 On 5 1n32 1 10 7 26 2 13	4 59 2 5 32 2 6 7 2	55 10 40 1 18 53 11 7 1 16 50 11 33 1 15	21 39 1 51 21 31 1 50 21 23 1 49	7 56 1 30 7 54 1 30 7 51 1 30	22 47 0 42 22 47 0 42 22 47 0 42	15 58 0 44 15 58 0 44 15 58 0 44	8 32 1 42 8 33 1 42 8 33 1 42	23 58 11 10 23 58 11 10 23 58 11 10	4 45 4 46 4 47	5 15 5 16 5 18	18 21 18 18 18 16	13 53 7 12 13 53 7 13 13 52 7 13
W 8 T 9 F 10 S 11		18 30 4 0 23 2 4 37 26 23 4 58	7 20 2 7 58 2 8 37 2	43 12 25 1 12 38 12 51 1 10 33 13 16 1 9	20 59 1 46 20 51 1 45		22 47 0 41 22 48 0 41 22 48 0 41	15 58 0 43 15 58 0 43 15 57 0 43 15 57 0 43	8 36 1 42	23 57 11 9 23 57 11 9 23 57 11 9	4 52 4 56 5 0	5 20 5 21 5 23	18 10 18 7 18 4	13 52 7 14 13 51 7 14 13 51 7 15 13 50 7 16
S 12 M13 T 14 W15 T 16 F 17	18 2 18 17 18 32 18 46 19 1 19 14	28 12 4 49 26 21 4 17 22 50 3 30 17 58 2 29	9 57 2 10 38 2 11 19 2 12 1 2	21 14 6 1 5 15 14 30 1 4 8 14 54 1 2 0 15 17 1 0	20 43 1 44 20 34 1 43 20 25 1 42 20 17 1 41 20 8 1 41 19 59 1 40	7 40 1 29 7 38 1 29 7 36 1 29 7 34 1 28 7 33 1 28 7 31 1 28	22 48 0 41 22 48 0 41 22 48 0 41 22 48 0 40	15 56 0 43 15 56 0 43 15 55 0 43	8 37 1 42 8 38 1 42 8 39 1 42 8 39 1 42 8 40 1 42 8 41 1 42	23 56 11 8 23 55 11 8 23 55 11 8	5 4 5 7 5 9 5 11 5 11 5 12	5 26 5 28 5 29	17 59 17 56 17 53 17 50	13 50 7 16 13 49 7 17 13 49 7 17 13 49 7 18 13 48 7 18 13 48 7 19
S 18 S 19 M20 T 21 W22 T 23 F 24	20 30 20 42	0s54 1s 8 7 27 2 16 13 34 3 17 18 58 4 5 23 21 4 39 26 27 4 57	14 9 1 14 52 1 15 35 1 16 17 1 17 0 0 17 42 0	35 16 26 0 54 26 16 48 0 53 16 17 9 0 51 6 17 31 0 48 56 17 51 0 46 46 18 11 0 44	19 50 1 39 19 40 1 38 19 31 1 37 19 22 1 36 19 12 1 35 19 2 1 34 18 53 1 33	7 27 1 28 7 25 1 27 7 24 1 27 7 22 1 27 7 21 1 27 7 19 1 26	22 49 0 40 22 49 0 39	15 53 0 43 15 53 0 43 15 52 0 43 15 52 0 43	8 42 1 42 8 43 1 42 8 44 1 42 8 44 1 42 8 45 1 42 8 46 1 42	23 54 11 6 23 53 11 6 23 53 11 6 23 52 11 6 23 52 11 5	5 12 5 13 5 15 5 18 5 22 5 26	5 33 5 34 5 35 5 36 5 37 5 39	17 42 17 39 17 36 17 34 17 31 17 28	13 48 7 19 13 47 7 20 13 47 7 21 13 47 7 21 13 46 7 22 13 46 7 22
W29 T 30	21 14 21 24 21 34 21 43	28 15 4 48 26 57 4 23 24 25 3 45 20 50 2 59 16 27 2 5	19 3 0 19 42 0 20 20 0 20 56 0n 21 31 0	24 18 51 0 40 14 19 9 0 38 3 19 28 0 36 n 8 19 45 0 33	18 43	7 17 1 26 7 15 1 26 7 14 1 26 7 13 1 25 7 12 1 25	22 49 0 39 22 49 0 39 22 49 0 39 22 49 0 39 22 49 0 39	15 50 0 43	8 47 1 42 8 48 1 42 8 48 1 42 8 49 1 42 8 49 1 42	23 50 11 4 23 50 11 4	5 31 5 35 5 39 5 42 5 44 5 45 5 \$46	5 41 5 42 5 44 5 45 5 46	17 22 17 19 17 17 17 14 17 11	13 46 7 23 13 46 7 24 13 46 7 24 13 45 7 25 13 45 7 25 13 845 7 7026

Julian Day Number = 2345379.5, Delta T = 11.68 sec Ecliptic obliquity = 23°28'46, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°40'57, Lahiri = 19°47'58Greg. Calendar

JUNE 1709 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)ұ(并	Р	n	v	Ç	ę,	Day
S 1	16 37 6	10 Ⅱ 10′53	14) (49	9 Ⅱ 40	4 Ⅱ 14	15 Ω 47	21°R42	29916	19 ೧ 7	27 ° 3	24 \O 23	15°R24	15 ∺ 17	19 ≈ 36	25°R34	S 1
S 2	16 41 2	11° 8'17	26°50	11°52	5°28	16°20	21 ≏ 39	2°24	19°8	27° 5	24°24	15 ∺ 24	15°14	19°43	25 궁 32	S 2
M 3	16 44 59	12° 5'41	9 Y 6	14° 4	6°42	16°53	21°37	2°31	19°10	27° 6	24°24	15°22	15°11	19°49	25°29	M 3
T 4	16 48 56	13° 3'04	21°40	16°16	7°55	17°26	21°34	2°39	19°12	27° 8	24°25	15°19	15° 8	19°56	25°27	T 4
W 5	16 52 52	14° 0'27	4837	18°27	9° 9	18° 0	21°31	2°46	19°14	27°10	24°26	15°12	15° 4	20° 3	25°25	W 5
T 6	16 56 49	14°57'49	17°58	20°37	10°23	18°33	21°29	2°54	19°16	27°11	24°27	15° 4	15° 1	20° 9	25°23	T 6
F 7	17 0 45	15°55'11	1 II 43	22°46	11°36	19° 7	21°27	3° 1	19°18	27°13	24°28	14°53	14°58	20°16	25°20	F 7
S 8	17 4 42	16°52'32	15°50	24°53	12°50	19°40	21°25	3° 9	19°21	27°15	24°29	14°41	14°55	20°23	25°18	S 8
S 9	17 8 38	17°49'52	09913	26°59	14° 4	20°14	21°23	3°16	19°23	27°16	24°30	14°30	14°52	20°29	25°15	S 9
M10	17 12 35	18°47'12	14°46	29° 4	15°17	20°48	21°22	3°24	19°25	27°18	24°31	14°20	14°48	20°36	25°13	M10
T 11	17 16 31	19°44'30	29°23	199 6	16°31	21°22	21°20	3°32	19°27	27°19	24°32	14°13	14°45	20°43	25°10	T 11
W12	17 20 28	20°41'48	13 N 56	3° 7	17°45	21°56	21°19	3°40	19°30	27°21	24°33	14° 8	14°42	20°49	25° 7	W12
T 13	17 24 25	21°39'05	28°20	5° 5	18°58	22°30	21°18	3°47	19°32	27°23	24°34	14° 5	14°39	20°56	25° 5	T 13
F 14	17 28 21	22°36'21	12 m /34	7° 2	20°12	23° 4	21°17	3°55	19°34	27°24	24°35	14°D 5	14°36	21° 3	25° 2	F 14
S 15	17 32 18	23°33'36	26°34	8°56	21°26	23°38	21°16	4° 3	19°37	27°25	24°36	14°R 5	14°33	21° 9	24°59	S 15
S 16	17 36 14	24°30'51	10 ≏ 22	10°48	22°39	24°12	21°16	4°10	19°39	27°27	24°37	14° 4	14°29	21°16	24°56	S 16
M17	17 40 11	25°28'04	23°58	12°38	23°53	24°47	21°16	4°18	19°42	27°28	24°38	14° 2	14°26	21°23	24°53	M17
T 18	17 44 7	26°25'18	7 M ₊21	14°26	25° 7	25°21	21°D16	4°26	19°44	27°30	24°39	13°57	14°23	21°29	24°50	T 18
W19	17 48 4	27°22'30	20°33	16°11	26°20	25°55	21°16	4°34	19°47	27°31	24°40	13°49	14°20	21°36	24°47	W19
T 20	17 52 0	28°19'42	3 ∡ ³33	17°54	27°34	26°30	21°16	4°41	19°49	27°32	24°42	13°39	14°17	21°43	24°44	T 20
F 21	17 55 57	29°16'54	16°21	19°35	28°48	27° 5	21°16	4°49	19°52	27°34	24°43	13°27	14°14	21°49	24°41	F 21
S 22	17 59 54	0914'05	28°57	21°13	099 1	27°39	21°17	4°57	19°55	27°35	24°44	13°15	14°10	21°56	24°38	S 22
S 23	18 3 50	1°11'16	11 る 21	22°49	1°15	28°14	21°18	5° 5	19°58	27°36	24°45	13° 3	14° 7	22° 3	24°35	S 23
M24	18 747	2° 8'27	23°33	24°23	2°29	28°49	21°18	5°13	20° 0	27°37	24°47	12°53	14° 4	22° 9	24°32	M24
T 25	18 11 43	3° 5'37	5≈34	25°54	3°42	29°24	21°20	5°21	20° 3	27°39	24°48	12°45	14° 1	22°16	24°28	T 25
W26	18 15 40	4° 2'48	17°28	27°23	4°56	29°59	21°21	5°28	20° 6	27°40	24°49	12°40	13°58	22°23	24°25	W26
T 27	18 19 36	4°59'58	29°16	28°50	6°10	0 m 34	21°22	5°36	20° 9	27°41	24°51	12°37	13°54	22°29	24°22	T 27
F 28	18 23 33	5°57'09	11) (4	$0\Omega14$	7°24	1° 9	21°24	5°44	20°12	27°42	24°52	12°D36	13°51	22°36	24°19	F 28
S 29	18 27 30	6°54'20	22°55	1°36	8°37	1°44	21°26	5°52	20°15	27°43	24°54	12°36	13°48	22°42	24°15	S 29
S 30	18 31 26	7951'31	4Υ 56	2 Ω 55	9951	2 m 20	21 ≏ 28	6 9 0	20 Ω 18	27 Y 44	24 Q 55	12°R37	13) 45	22≈49	24 궁 12	S 30

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S 2	22 9		1n 0		0 48			17 20	1 26	7 9	1 24	-		15 47		8 51		23 48		5 46			13 45	7 26
M 3	22 17			23 29		21 6	-	17 9	1 25	7 8	1 24	22 49				8 52	1 43	23 47	_	5 47	-	16 59		7 27
T 4 W 5	22 24			23 52		21 21		16 58	1 24	7 8	1 24	-		15 46		8 52	1 43	23 47	_	5 48	-	16 56		7 27
T 6	22 31 22 38	-		24 1324 31		21 34 21 48	-	16 47 16 36	1 23 1 23	7 7 7 6	1 24 1 23	-	0 38 0 38		0 43 0 42	8 53 8 53	1 43 1 43		11 3 11 2	5 50 5 54	5 53 5 55		13 45	7 28 7 28
F 7			-	24 46		21 46	-	16 25	1 22	7 6	1 23	-	0 38			8 54	1 43			5 58	5 56			7 28
S 8		27 42		24 58	1 35	-	-	16 13	1 21	7 5	1 23			15 43	-	8 55	1 43			6 2		16 45		7 29
S 9	22 55	28 18	4 49	25 8	1 41	22 24	0 8	16 2	1 20	7 5	1 22	22 49	0 38	15 42	0 42	8 55	1 43	23 44	11 2	6 7	5 58	16 42	13 45	7 29
M10	23 0	26 58	4 20	25 14	1 46	22 34	0 5	15 50	1 19	7 4	1 22	22 49	0 38	15 42	0 42	8 56	1 43	23 44	11 1	6 11	6 0	16 39	13 45	7 30
T 11		-		25 18		22 45		15 39	1 18	7 4	1 22	22 48		15 41	0 42	8 56	1 43		11 1	6 13	6 1		13 45	7 30
W12	23 9			25 20		22 54		15 27	1 18	7 4	1 22	22 48		15 40		8 57	1 43			6 15	6 2		13 45	7 30
_		13 21		25 19		23 3	0n 2		1 17	7 4	1 21	22 48	0 37			8 57	1 43			6 16	6 3			7 31
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S 16	23 22		2 14	-		23 25		14 39	1 15	7 4	1 21	-		15 37	0 42	8 59	1 43		-	6 17	6 7		13 46	7 32
M17	23 24	-	-	24 51		23 31		14 27	1 14	7 4	1 20	-		15 36	-	8 59	1 43	23 40	-	6 18	6 8		13 46	7 32
T 18	23 26 23 27	17 48	-	24 39 24 26		23 37 23 42		14 14 14 2	1 13 1 12	7 4 7 4	1 20 1 20			15 35 15 34		8 59 9 0	1 43 1 43		11 0 11 0	6 20 6 23	6 9	16 16	13 46	7 32 7 33
	23 27			24 20		23 46		13 49	1 11	7 5	1 19			15 34		9 0	1 43		10 59	6 26	-	16 10		7 33
F 21	23 29			23 53	-	23 49	-	13 37	1 11	7 5	1 19			15 33		9 1	1 44	23 37		6 31	6 13		13 47	7 33
S 22	23 29	28 19	4 50	23 34	1 48	23 52	0 23	13 24	1 10		1 19		0 36	15 32	0 42	9 1	1 44	23 37	10 59	6 36	6 14		13 47	7 33
S 23	23 28	27 25	4 26	23 15	1 43	23 53	0 25	13 11	1 9	7 6	1 19	22 47	0 36	15 31	0 42	9 2	1 44	23 36	10 59	6 40	6 16	16 1	13 48	7 34
M24	23 28	25 12	3 50	22 54	1 38	23 55	0 27	12 58	1 8	7 7	1 18	22 46	0 36	15 30	0 42	9 2	1 44	23 35	10 59	6 44	6 17	15 58	13 48	7 34
T 25	23 27	21 52	3 3	22 31	1 33	23 55	0 30	12 45	1 8	7 7	1 18	22 46	0 36	15 29	0 42	9 2	1 44	23 35	10 58	6 47	6 18	15 55	13 48	7 34
W26	23 25		-	22 8		23 55		12 32	1 7	7 8	1 18	-			0 42	9 3	1 44		10 58	6 49	6 19			7 34
T 27		-	1 10		-	23 54	0 34		1 6	7 9	1 18			15 27	0 42	9 3	1 44		10 58	6 50	6 20			7 35
F 28	23 21	7 33		21 19		23 52		12 6	1 5	7 10		22 45		15 26		9 3	1 44	23 33		6 51		15 46		7 35
S 29	23 18	1 58	unss	20 54	1 5	23 50	0 38	11 53	1 5	7 11	1 17	22 45	0 36	15 25	0 42	9 4	1 44	23 32	10 58	6 50	0 23	15 43	13 30	7 35
S 30	23n15	3n44	1n56	20n28	0n57	23n47	0n40	11n39	1n 4	7s12	1n17	22n45	0s36	15n24	0n42	9n 4	1 s44	23n32	10n58	6 s 5 0	6 s24	15 s40	13 s50	7n35

Julian Day Number = 2345410.5, Delta T = 11.67 sec Ecliptic obliquity = 23°28'46, Nutation = $0^{\circ}00'04$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}41'02$, Lahiri = $19^{\circ}48'02$ Greg. Calendar

JULY 1709 00:00 UT

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Day	Sid.t	0	D	φ	φ	ď	4	ħ)∤(,	Р	ß	Ω	Ç	Š,	Day
M 1	18 35 23	89548'42	17 Y 10	4 Ω 12	1199 5	2 m 55	21 ♀ 30	6 9 7	20 Ω 21	27 Y 45	24€56	12°R36	13) 42	22≈56	24°R 9	M 1
T 2	18 39 19	9°45'54	29°44	5°26	12°19	3°30	21°32	6°15	20°24	27°46	24°58	12) 34	13°39	23° 2	24궁 5	T 2
W 3	18 43 16	10°43'06	12842	6°38	13°32	4° 6	21°35	6°23	20°27	27°47	24°59	12°30	13°35	23° 9	24° 2	W 3
T 4	18 47 12	11°40'18	26° 7	7°47	14°46	4°41	21°37	6°31	20°30	27°48	25° 1	12°24	13°32	23°16	23°58	T 4
F 5	18 51 9	12°37'31	9∏59	8°53	16° 0	5°17	21°40	6°39	20°33	27°49	25° 2	12°16	13°29	23°22	23°55	F 5
S 6	18 55 5	13°34'44	24°17	9°56	17°14	5°53	21°43	6°46	20°36	27°50	25° 4	12° 7	13°26	23°29	23°51	S 6
S 7	18 59 2	14°31'57	8956	10°56	18°28	6°28	21°47	6°54	20°39	27°50	25° 6	11°59	13°23	23°36	23°48	S 7
M 8	19 2 59	15°29'11	23°49	11°54	19°42	7° 4	21°50	7° 2	20°42	27°51	25° 7	11°51	13°20	23°42	23°44	M 8
T 9	19 6 55	16°26'25	8 Ω 47	12°48	20°55	7°40	21°53	7°10	20°46	27°52	25° 9	11°45	13°16	23°49	23°41	T 9
W10	19 10 52	17°23'39	23°41	13°38	22° 9	8°16	21°57	7°18	20°49	27°53	25°10	11°42	13°13	23°56	23°37	W10
T 11	19 14 48	18°20'53	8 m) 25	14°26	23°23	8°52	22° 1	7°25	20°52	27°53	25°12	11°D40	13°10	24° 2	23°34	T 11
F 12	19 18 45	19°18'07	22°53	15°10	24°37	9°28	22° 5	7°33	20°56	27°54	25°14	11°41	13° 7	24° 9	23°30	F 12
S 13	19 22 41	20°15'21	7 ♀ 1	15°50	25°51	10° 4	22° 9	7°41	20°59	27°55	25°15	11°42	13° 4	24°16	23°27	S 13
S 14	19 26 38	21°12'35	20°50	16°26	27° 5	10°41	22°13	7°48	21° 2	27°55	25°17	11°R42	13° 0	24°22	23°23	S 14
M15	19 30 34	22° 9'50	4ML21	16°59	28°18	11°17	22°18	7°56	21° 6	27°56	25°19	11°41	12°57	24°29	23°19	M15
T 16	19 34 31	23° 7'05	17°33	17°27	29°32	11°53	22°23	8° 4	21° 9	27°56	25°20	11°39	12°54	24°36	23°16	T 16
W17	19 38 28	24° 4'20	0₺730	17°51	0 Ω 46	12°30	22°27	8°11	21°12	27°57	25°22	11°34	12°51	24°42	23°12	W17
T 18	19 42 24	25° 1'35	13°13	18°10	2° 0	13° 6	22°32	8°19	21°16	27°57	25°24	11°28	12°48	24°49	23° 9	T 18
F 19	19 46 21	25°58'51	25°44	18°25	3°14	13°43	22°38	8°27	21°19	27°58	25°26	11°20	12°45	24°56	23° 5	F 19
S 20	19 50 17	26°56'07	8중 4	18°35	4°28	14°19	22°43	8°34	21°23	27°58	25°27	11°12	12°41	25° 2	23° 2	S 20
S 21	19 54 14	27°53'24	20°13	18°40	5°42	14°56	22°48	8°42	21°26	27°59	25°29	11° 5	12°38	25° 9	22°58	S 21
M22	19 58 10	28°50'41	2≈15	18°R40	6°56	15°33	22°54	8°49	21°30	27°59	25°31	10°58	12°35	25°16	22°55	M22
T 23	20 2 7	29°47'59	14° 9	18°35	8° 9	16° 9	22°59	8°57	21°33	27°59	25°33	10°53	12°32	25°22	22°51	T 23
W24	20 6 3	0 Ω 45'18	25°59	18°25	9°23	16°46	23° 5	9° 4	21°37	28° 0	25°35	10°50	12°29	25°29	22°47	W24
T 25	20 10 0	1°42'38	7) €46	18°11	10°37	17°23	23°11	9°12	21°40	28° 0	25°36	10°D49	12°26	25°35	22°44	T 25
F 26	20 13 57	2°39'59	19°34	17°51	11°51	18° 0	23°17	9°19	21°44	28° 0	25°38	10°49	12°22	25°42	22°40	F 26
S 27	20 17 53	3°37'20	1 Y 26	17°26	13° 5	18°37	23°24	9°26	21°48	28° 0	25°40	10°50	12°19	25°49	22°37	S 27
S 28	20 21 50	4°34'43	13°27	16°57	14°19	19°14	23°30	9°34	21°51	28° 0	25°42	10°52	12°16	25°55	22°34	S 28
M29	20 25 46	5°32'07	25°41	16°23	15°33	19°51	23°37	9°41	21°55	28° 1	25°44	10°53	12°13	26° 2	22°30	M29
T 30	20 29 43	6°29'32	8814	15°45	16°47	20°28	23°43	9°48	21°58	28° 1	25°46	10°R54	12°10	26° 9	2 <u>2°</u> 27	T 30
W31	20 33 39	$7\Omega 26'58$	218 8	15 Ω 5	18 N 1	21 Mp 6	23 ≙ 50	9 9 56	22 N 2	28 ° 1	25 Ω 48	10 ∺ 53	12 米 6	26≈15	22 る 23	W31

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M 1 T 2	23n11 23 7		2n54 2			23n43 23 39		11n26 11 12	1n 3 1 2	7s13 7 14		22n45 22 44		15n23 15 22	0n42 0 42		1 s44 1 44	23n31 1 23 30 1		6 s 5 0 6 5 1		15 s37 15 34		7n35 7 36
W 3 T 4	23 3 22 58		4 25 1 4 53 1	19 7		23 34	-	10 59 10 45	1 2	7 15		22 44		-	0 42		1 44			6 53		15 31 15 28		7 36
F 5	22 58	_		18 40		23 28 23 21	0 49		1 1 1 0	7 16 7 18		22 44 22 43		15 20 15 19	0 42 0 42		1 44 1 44	23 28 1		6 55 6 58		15 28 15 25		7 36 7 36
S 6			4 58 1			23 14		10 18	0 59	7 19		22 43		15 18	0 42			23 28 1		7 1		15 22		7 36
S 7 M 8	22 35	25 7	4 32 1	16 50	0 26		0 54 0 56	9 50	0 59 0 58	7 21 7 22	1 15	22 43 22 42	0 35	15 17 15 16	0 42 0 42	9 6	1 44	23 27 1 23 26 1	10 56	7 5 7 8	6 34	15 19 15 16	13 54	7 36 7 36
T 9 W10	22 28 22 21		2 47 1 1 35 1			22 48 22 38	0 58 1 0	9 36 9 21	0 57 0 56	7 24 7 25		22 42 22 42		15 15 15 14	0 42 0 42			23 26 1 23 25 1		7 10 7 11	6 36	15 10		7 36 7 37
T 11 F 12 S 13	22 13 22 5 21 57	1 55	0 18 1 1s 0 1 2 12 1	15 6	1 16	22 28 22 16 22 4	1 1 1 3 1 5	9 7 8 53 8 39	0 56 0 55 0 54	7 27 7 29 7 30	1 13	22 41 22 41 22 41	0 35	15 13 15 12 15 11	0 42 0 42 0 42	9 7	1 45	23 24 1 23 24 1 23 23 1	10 56	7 12 7 12 7 11	6 38 6 39 6 40	15 4	13 56	7 37 7 37 7 37
S 14	21 48	11 9	3 15	14 18	1 43	21 52	1 6	8 24	0 54	7 32	1 13	22 40	0 35	15 10	0 42	9 7	1 45	23 22 1	10 56	7 11	6 41	14 58	13 57	7 37
M15 T 16	21 30	21 36	4 41		2 10	21 39 21 25	1 8 1 9	8 10 7 55	0 53 0 52	7 34 7 36	1 12		0 35 0 35	15 8	0 42 0 42	9 8	1 45	23 21 1 23 21 1	10 55	7 11 7 12	6 44	14 55 14 52	13 58	7 37 7 37
W17 T 18	21 10	27 31	5 8	13 13 12 54	2 38	21 10 20 55	1 11 12	7 41 7 26	0 51 0 51	7 38 7 40		22 39	0 34	15 6	0 42 0 42	9 8	1 45	23 20 1 23 19 1	10 55	7 14 7 17	6 46	14 49 14 46	13 59	7 37 7 37
F 19 S 20			4 58 1 4 35 1		2 51 3 5		1 13 1 15	7 11 6 56	0 50 0 49	7 42 7 45		22 38 22 38	0 34 0 34		0 42 0 42			23 19 1 23 18 1		7 19 7 23		14 43 14 40		7 37 7 37
S 21 M22			4 0 1 3 14 1				1 16 1 17	6 42 6 27	0 49 0 48	7 47 7 49		22 37 22 37	0 34 0 34	-	0 42 0 42		1 45 1 45	23 17 1 23 17 1		7 25 7 28		14 37 14 34		7 37 7 37
T 23 W24	20 14 20 1		2 20 1 1 20 1		_	19 31 19 12	1 18 1 19	6 12 5 57	0 47 0 47	7 52 7 54		22 37 22 36	0 34		0 41 0 41		-	23 16 1 23 15 1		7 30 7 31		14 31 14 28		7 36 7 36
T 25	19 49	8 56	0 17	11 30	4 6	18 53	1 20	5 42	0 46	7 56	1 10	22 36	0 34	14 58	0 41	9 8	1 46	23 15 1	10 55	7 31	6 55	14 25	14 3	7 36
F 26 S 27	19 36 19 23		0n48 1 1 50 1	-			1 21 1 22	5 27 5 11	0 45 0 44	7 59 8 1		22 35 22 35		14 56 14 55	0 41 0 41		-	23 14 1 23 13 1		7 31 7 31		14 22 14 19		7 36 7 36
S 28 M29	19 9		2 49 1			17 53 17 32	1 23 1 24	4 56 4 41	0 44 0 43	8 4 8 7	1 9 1 9			14 54 14 53	0 41 0 41			23 12 1 23 12 1		7 30 7 30		14 16 14 13	-	7 36 7 36
T 30	18 41	18 26	4 24	11 34	4 47	17 10	1 24	4 26	0 42	8 9	1 9	22 33	0 34	14 52	0 41	9 8	1 46	23 11 1	10 54	7 30	7 1	14 10	14 7	7 36
W31	18n26	22n48	4n55	11n42	4 s 5 1	16n48	1n25	4n10	0n42	8s12	1n 9	22n33	0s34	14n50	0n41	9n 8	1 s46	23n10 1	10n54	7 s30	7s 2	14s 7	14s 7	7n36

Julian Day Number = 2345440.5, Delta T = 11.65 sec Ecliptic obliquity = $23^{\circ}28'46$, Nutation = $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}41'06$, Lahiri = $19^{\circ}48'06$ Greg. Calendar

AUGUST 1709 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)ф(卉	Р	ß	ß	Ç	Ŷ,	Day
T 1	20 37 36	8 Ω 24'26	4 Ⅱ 29	14°R21	19 Ω 15	21 m/43	23 ♀ 57	1095 3	22 N 6	28°R 1	25 Ω 49	10°R51	12) 3	26≈22	22°R20	T 1
F 2	20 41 32	9°21'55	18°18	13 Ω 35	20°29	22°20	24° 4	10°10	22° 9	28 Y 1	25°51	10) (47	12° 0	26°29	22 궁 17	F 2
S 3	20 45 29	10°19'25	2935	12°48	21°43	22°58	24°12	10°17	22°13	28° 1	25°53	10°43	11°57	26°35	22°13	S 3
S 4	20 49 26	11°16'56	17°16	12° 1	22°57	23°35	24°19	10°24	22°17	28° 1	25°55	10°39	11°54	26°42	22°10	S 4
M 5	20 53 22	12°14'29	2Ω15	11°14	24°11	24°13	24°26	10°31	22°21	28° 0	25°57	10°35	11°51	26°49	22° 7	M 5
T 6	20 57 19	13°12'03	17°24	10°28	25°25	24°51	24°34	10°38	22°24	28° 0	25°59	10°33	11°47	26°55	22° 4	T 6
W 7	21 115	14° 9'38	2 m 34	9°44	26°39	25°28	24°42	10°45	22°28	28° 0	26° 1	10°31	11°44	27° 2	22° 0	W 7
T 8	21 5 12	15° 7'14	17°34	9° 4	27°52	26° 6	24°50	10°52	22°32	28° 0	26° 3	10°D31	11°41	27° 9	21°57	T 8
F 9	21 9 8	16° 4'50	2 ≏ 18	8°27	29° 6	26°44	24°58	10°59	22°35	28° 0	26° 5	10°32	11°38	27°15	21°54	F 9
S 10	21 13 5	17° 2'28	16°41	7°55	0 m 20	27°22	25° 6	11° 6	22°39	27°59	26° 7	10°33	11°35	27°22	21°51	S 10
S 11	21 17 1	18° 0'07	0 M .39	7°28	1°34	28° 0	25°14	11°13	22°43	27°59	26° 9	10°35	11°32	27°29	21°48	S 11
M12	21 20 58	18°57'47	14°13	7° 8	2°48	28°38	25°22	11°20	22°47	27°59	26°11	10°R35	11°28	27°35	21°45	M12
T 13	21 24 55	19°55'28	27°24	6°53	4° 2	29°16	25°31	11°27	22°50	27°58	26°13	10°35	11°25	27°42	21°42	T 13
W14	21 28 51	20°53'10	10 ∡ 15	6°46	5°16	29°54	25°39	11°33	22°54	27°58	26°15	10°34	11°22	27°48	21°39	W14
T 15	21 32 48	21°50'53	22°48	6°D46	6°30	0 ჲ 32	25°48	11°40	22°58	27°58	26°17	10°32	11°19	27°55	21°36	T 15
F 16	21 36 44	22°48'37	5중 8	6°53	7°44	1°10	25°57	11°46	23° 2	27°57	26°19	10°30	11°16	28° 2	21°33	F 16
S 17	21 40 41	23°46'23	17°16	7° 8	8°58	1°49	26° 6	11°53	23° 5	27°57	26°21	10°27	11°12	28° 8	21°31	S 17
S 18	21 44 37	24°44'09	29°15	7°31	10°12	2°27	26°15	11°59	23° 9	27°56	26°23	10°25	11° 9	28°15	21°28	S 18
M19	21 48 34	25°41'57	11≈ 8	8° 1	11°26	3° 6	26°24	12° 6	23°13	27°56	26°25	10°23	11° 6	28°22	21°25	M19
T 20	21 52 30	26°39'47	22°58	8°39	12°40	3°44	26°33	12°12	23°17	27°55	26°26	10°22	11° 3	28°28	21°23	T 20
W21	21 56 27	27°37'38	4) (45	9°24	13°54	4°23	26°42	12°18	23°20	27°54	26°28	10°D21	11° 0	28°35	21°20	W21
T 22	22 0 24	28°35'30	16°34	10°17	15° 8	5° 1	26°52	12°25	23°24	27°54	26°30	10°21	10°57	28°42	21°18	T 22
F 23	22 4 20	29°33'24	28°26	11°17	16°22	5°40	27° 1	12°31	23°28	27°53	26°32	10°22	10°53	28°48	21°15	F 23
S 24	22 8 17	0 Mp 31'20	10 Y 23	12°23	17°36	6°18	27°11	12°37	23°31	27°52	26°34	10°22	10°50	28°55	21°13	S 24
S 25	22 12 13	1°29'17	22°29	13°36	18°50	6°57	27°21	12°43	23°35	27°52	26°36	10°23	10°47	29° 2	21°10	S 25
M26	22 16 10	2°27'16	4847	14°54	20° 4	7°36	27°31	12°49	23°39	27°51	26°38	10°24	10°44	29° 8	21° 8	M26
T 27	22 20 6	3°25'17	17°21	16°19	21°18	8°15	27°41	12°55	23°43	27°50	26°40	10°25	10°41	29°15	21° 6	T 27
W28	22 24 3	4°23'21	0 Ⅱ 14	17°48	22°32	8°54	27°51	13° 1	23°46	27°49	26°42	10°R25	10°38	29°22	21° 4	W28
T 29	22 27 59	5°21'26	13°29	19°22	23°46	9°33	28° 1	13° 7	23°50	27°48	26°44	10°25	10°34	29°28	21° 1	T 29
F 30	22 31 56	6°19'33	27° 9	21° 0	25° 0	10°12	28°11	13°12	23°54	27°47	26°46	10°25	10°31	29°35	20°59	F 30
S 31	22 35 53	7 Mp 17'42	119915	22 Ω 42	26 Mp 14	10 ≏ 51	28 ≏ 21	139518	23 Ω 57	27 Ƴ 46	26 Ω 48	10 ∺ 24	10 ∺ 28	29≈42	20 궁 57	S 31

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	decl	decl lat	decl lat	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	t	decl lat	decl	decl	decl	decl lat
T 1 F 2 S 3	18n12 17 56 17 41		12 5 4	1 54 16 3 1	25 3n55 26 3 40 26 3 24	0n41 0 40 0 40	8 s 1 5 8 1 8 8 2 1	1n 9 1 8 1 8	22 32	0 33	14n49 14 48 14 47	0n41 0 41 0 41	9 8 1	1 46	23n10 10n5 23 9 10 5 23 8 10 5	4 7 32	7s 3 7 4 7 5		14 9 7 35
S 4 M 5 T 6 W 7 T 8 F 9	17 9 16 53 16 36 16 20 16 3	22 51 3 15 17 36 2 4 11 15 0 44 4 19 0s39 2s43 1 57	5 12 52 4 13 11 4 13 31 4 13 51 4 7 14 12 4	1 38 14 26 1 1 29 14 1 1 1 19 13 36 1 1 8 13 10 1	27 2 53 27 2 38 27 2 22 28 2 6 28 1 51	0 39 0 38 0 37 0 37 0 36 0 35	8 23 8 26 8 29 8 32 8 36 8 39	1 8 1 8 1 7 1 7 1 7 1 7	22 31 22 30 22 30 22 29 22 28	0 33 0 33 0 33 0 33 0 33	14 43 14 42 14 41 14 40	0 41 0 41 0 41 0 41 0 41	9 8 1 9 8 1 9 8 1 9 7 1 9 7 1	1 46 1 46 1 46 1 46 1 46	23 8 10 5 23 7 10 5 23 6 10 5 23 6 10 5 23 5 10 5 23 4 10 5	4 7 37 4 7 38 4 7 38 4 7 38 4 7 38	7 13	13 51 13 48 13 45 13 42 13 39	14 14 7 34
S 10 S 11 M12 T 13 W14 T 15 F 16 S 17	14 33 14 15 13 56	15 30 4 2 20 38 4 43 24 36 5 7 27 13 5 15 28 25 5 8 28 10 4 47	2 14 53 3 3 15 13 3 7 15 32 3 6 15 50 2 8 16 7 2	3 40 12 18 1 3 25 11 51 1 3 9 11 24 1 2 52 10 56 1 2 35 10 29 1 2 18 10 1 1	27 0 48	0 35 0 34 0 33 0 33 0 32 0 31 0 30	8 42 8 45 8 48 8 52 8 55 8 58 9 2 9 5	1 7 1 6 1 6 1 6 1 5 1 5 1 5	22 27 22 27 22 26 22 26 22 25 22 25	0 33 0 33 0 33 0 33 0 33	14 35 14 33	0 41 0 41 0 41 0 41 0 41 0 41	9 7 1 9 7 1 9 7 1 9 6 1 9 6 1 9 6 1	1 47 1 47 1 47 1 47 1 47 1 47	23 4 10 5 23 3 10 5 23 2 10 5 23 2 10 5 23 1 10 5 23 0 10 5 23 0 10 5 22 59 10 5	4 7 37 4 7 36 4 7 37 5 7 37 5 7 38 5 7 39	7 15 7 16 7 18 7 19 7 20 7 21	13 30 13 26 13 23 13 20	14 15 7 33 14 16 7 33 14 17 7 33 14 17 7 32 14 18 7 32 14 19 7 32
S 18 M19 T 20 W21 T 22 F 23 S 24	13 18 12 58 12 39 12 19 11 59 11 39 11 18	15 23 1 35 10 16 0 31 4 47 0n34 0n53 1 39	5 16 56 1 5 17 3 1 17 7 0 1 17 9 0 1 17 8 0	25 8 35 1 7 8 6 1 0 50 7 37 1 0 34 7 7 1 0 18 6 38 1	25 0 32 24 0 48 23 1 4 23 1 19 22 1 35 21 1 51 20 2 7	0 29 0 29 0 28 0 27 0 27 0 26 0 25	9 8 9 12 9 15 9 19 9 23 9 26 9 30	1 5 1 5 1 4 1 4 1 4 1 4	22 23 22 23 22 22 22 22	0 33 0 32 0 32 0 32 0 32	14 26 14 25 14 24	0 41 0 41 0 41 0 41 0 41 0 41 0 41	9 5 1 9 5 1 9 5 1 9 4 1 9 4 1	1 47 1 47 1 47 1 47 1 47	22 58 10 5 22 58 10 5 22 57 10 5 22 56 10 5 22 56 10 5 22 55 10 5 22 54 10 5	5 7 41 5 7 42 5 7 42 5 7 42 5 7 42 5 7 42	7 24 7 25 7 26 7 27 7 28 7 30 7 31	13 2 12 58 12 55	14 21 7 31 14 22 7 30 14 22 7 30 14 23 7 30 14 24 7 29
S 25 M26 T 27 W28 T 29 F 30 S 31	9 34 9 12	17 11 4 18 21 42 4 52 25 19 5 13 27 42 5 17 28 31 5 4	16 46 0 16 33 0 16 17 0 15 58 0 15 35 1	0 24 5 8 1 0 36 4 38 1 0 48 4 7 1 0 58 3 37 1	19 2 23 18 2 39 17 2 55 15 3 11 14 3 27 13 3 43 11 3 s59	0 25 0 24 0 23 0 23 0 22 0 21 0n21	9 33 9 37 9 41 9 45 9 48 9 52 9 s56	1 4 1 3 1 3 1 3 1 3 1 3 1 2	22 20 22 19 22 19 22 18 22 18	0 32 0 32 0 32 0 32 0 32	14 18 14 16	0 41 0 41 0 41 0 42 0 42	9 3 1 9 3 1 9 3 1 9 2 1 9 2 1	1 47 1 47 1 48 1 48 1 48	22 54 10 5 22 53 10 5 22 53 10 5 22 52 10 5 22 51 10 5 22 51 10 5 22 51 10 5	5 7 41 5 7 41 6 7 40 6 7 40 6 7 41	7 32 7 33 7 35 7 36 7 37 7 38 7 s39	12 46 12 43 12 40 12 36 12 33	14 26 7 28 14 27 7 28 14 27 7 27 14 28 7 27 14 29 7 26

Julian Day Number = 2345471.5, Delta T = 11.63 sec Ecliptic obliquity = $23^{\circ}28'46$, Nutation = $0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}41'10$, Lahiri = $19^{\circ}48'11$ Greg. Calendar

SEPTEMBER 1709 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)મ(并	Р	S.	v	Ç	Ŷ,	Day
S 1	22 39 49	8 mg 15'53	259345	24№26	27 m 27	11 ≏ 30	28 £ 32	139524	24 Q 1	27°R46	26€50	10°R24	10 ¥ 25	29≈48	20°R55	S 1
M 2	22 43 46	9°14'06	10 Ω 36	26°14	28°41	12°10	28°42	13°29	24° 5	27 Y 45	26°52	10) 24	10°22	29°55	20 궁 54	M 2
T 3	22 47 42	10°12'21	25°41	28° 3	29°55	12°49	28°53	13°35	24° 8	27°44	26°54	10°D24	10°18	0 ∀ 1	20°52	T 3
W 4	22 51 39	11°10'38	10 m 51	29°54	1 ₽ 9	13°28	29° 3	13°40	24°12	27°43	26°56	10°R24	10°15	0° 8	20°50	W 4
T 5	22 55 35	12° 8'57	25°58	1 m 47	2°23	14° 8	29°14	13°45	24°16	27°42	26°58	10°24	10°12	0°15	20°48	T 5
F 6	22 59 32	13° 7'17	10 ≏ 52	3°40	3°37	14°47	29°25	13°51	24°19	27°40	27° 0	10°24	10° 9	0°21	20°47	F 6
S 7	23 3 28	14° 5'39	25°26	5°34	4°51	15°27	29°36	13°56	24°23	27°39	27° 2	10°23	10° 6	0°28	20°45	S 7
S 8	23 7 25	15° 4'02	9 M .36	7°28	6° 5	16° 7	29°47	14° 1	24°26	27°38	27° 4	10°23	10° 3	0°35	20°44	S 8
M 9	23 11 22	16° 2'28	23°18	9°23	7°19	16°46	29°58	14° 6	24°30	27°37	27° 5	10°22	9°59	0°41	20°42	M 9
T 10	23 15 18	17° 0'55	6 ₹ 35	11°17	8°33	17°26	OM 9	14°11	24°34	27°36	27° 7	10°22	9°56	0°48	20°41	T 10
W11	23 19 15	17°59'23	1 <u>9°</u> 27	13°11	9°47	18° 6	0°20	14°16	24°37	27°35	27° 9	10°D22	9°53	0°55	20°40	W11
T 12	23 23 11	18°57'53	1 궁 58	15° 4	11° 0	18°46	0°31	14°21	24°41	27°34	27°11	10°22	9°50	1° 1	20°38	T 12
F 13	23 27 8	19°56'25	14°12	16°57	12°14	19°26	0°42	14°25	24°44	27°32	27°13	10°23	9°47	1° 8	20°37	F 13
S 14	23 31 4	20°54'59	26°14	18°49	13°28	20° 6	0°54	14°30	24°48	27°31	27°15	10°24	9°44	1°15	20°36	S 14
S 15	23 35 1	21°53'34	8≈ 7	20°41	14°42	20°46	1° 5	14°34	24°51	27°30	27°17	10°25	9°40	1°21	20°35	S 15
M16	23 38 57	22°52'11	19°56	22°31	15°56	21°26	1°17	14°39	24°54	27°28	27°18	10°26	9°37	1°28	20°34	M16
T 17	23 42 54	23°50'49	1 米 43	24°21	17°10	22° 6	1°28	14°43	24°58	27°27	27°20	10°27	9°34	1°34	20°34	T 17
W18	23 46 51	24°49'30	13°33	26°10	18°23	22°46	1°40	14°47	25° 1	27°26	27°22	10°R27	9°31	1°41	20°33	W18
T 19	23 50 47	25°48'12	25°26	27°57	19°37	23°26	1°52	14°52	25° 5	27°24	27°24	10°26	9°28	1°48	20°32	T 19
F 20	23 54 44	26°46'57	7 Υ 26	29°44	20°51	24° 7	2° 4	14°56	25° 8	27°23	27°26	10°25	9°24	1°54	20°31	F 20
S 21	23 58 40	27°45'43	19°34	1 ≏ 30	22° 5	24°47	2°15	15° 0	25°11	27°22	27°27	10°23	9°21	2° 1	20°31	S 21
S 22	0 2 37	28°44'32	1851	3°15	23°19	25°28	2°27	15° 4	25°14	27°20	27°29	10°20	9°18	2° 8	20°30	S 22
M23	0 633	29°43'23	14°21	4°59	24°32	26° 8	2°39	15° 7	25°18	27°19	27°31	10°17	9°15	2°14	20°30	M23
T 24	0 10 30	0 ≏ 42'16	27° 3	6°43	25°46	26°49	2°51	15°11	25°21	27°17	27°33	10°14	9°12	2°21	20°30	T 24
W25	0 14 26	1°41'11	10 I 1	8°25	27° 0	27°29	3° 3	15°15	25°24	27°16	27°34	10°12	9° 9	2°28	20°29	W25
T 26	0 18 23	2°40'09	23°16	10° 6	28°14	28°10	3°16	15°18	25°27	27°14	27°36	10°11	9° 5	2°34	20°29	T 26
F 27	0 22 20	3°39'09	6950	11°47	29°27	28°51	3°28	15°22	25°31	27°13	27°38	10°D10	9° 2	2°41	20°29	F 27
S 28	0 26 16	4°38'12	20°44	13°26	0 M .41	29°32	3°40	15°25	25°34	27°11	27°39	10°11	8°59	2°48	20°D29	S 28
S 29	0 30 13	5°37'16	4 Ω 58	15° 5	1°55	0ML12	3°52	15°28	25°37	27°10	27°41	10°12	8°56	2°54	2 <u>0°</u> 29	S 29
M30	0 34 9	6 ₽ 36'23	$19\Omega_{30}$	16 ₽ 43	3M 8	0 M .53	4M 5	15932	25 Ω 40	27 Y 8	27 Ω 43	10) (14	8) 53	3) 1	20 궁 29	M30

Day	0	D	ğ	φ	♂	4	ħ)Å(并	В	ß	Ω	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
S 1 M 2 T 3 W 4	8n29 8 7 7 45 7 23	20 9 2 38 14 15 1 21 7 28 0s 3	14 12 1 30 13 39 1 35 13 5 1 39	1 34 1 8 1 3 1 7 0 32 1 5	4 31 0 19 4 47 0 19 5 3 0 18	10 8 1 2 10 12 1 2	22 16 0 32 22 15 0 32 22 15 0 32	14 8 0 42	9 1 1 48 9 0 1 48 9 0 1 48	22 49 10 56 22 49 10 56 22 48 10 56	7 s41 7 41 7 41 7 41	7 42 7 43 7 44	12 24 12 21 12 17	14 32 7 25 14 32 7 24
T 5 F 6 S 7 S 8	7 1 6 39 6 16 5 54			0 s 3 0 1 2 1 1 1 0		10 19 1 1 10 23 1 1	22 14 0 32 22 13 0 32	14 5 0 42 14 4 0 42	8 59 1 48 8 59 1 48	22 47 10 57 22 46 10 57	7 41	7 47 7 48	12 11 12 8	
M 9 T 10 W11 T 12 F 13 S 14		23 31 5 4 26 39 5 17 28 16 5 14 28 23 4 55 27 6 4 24	7 30 1 45 6 44 1 43	2 3 0 56 2 34 0 54 3 5 0 52 3 36 0 50 4 7 0 48	6 22 0 15 6 38 0 14 6 54 0 13 7 10 0 13 7 26 0 12	10 27 1 1 10 32 1 1 10 36 1 1 10 40 1 1 10 44 1 1 10 48 1 0 10 52 1 0	22 13 0 32 22 12 0 32 22 12 0 31 22 11 0 31 22 11 0 31	14 2 0 42 14 1 0 42 14 0 0 42 13 58 0 42 13 57 0 42	8 58 1 48 8 57 1 48 8 57 1 48 8 56 1 48 8 56 1 48	22 45 10 57 22 45 10 57 22 44 10 58 22 44 10 58		7 50 7 51 7 53 7 54 7 55	12 2 11 58 11 55 11 52 11 49	14 35 7 22 14 36 7 22 14 37 7 21 14 37 7 21 14 38 7 20 14 39 7 20 14 39 7 19
S 15 M16 T 17 W18 T 19 F 20 S 21	3 13 2 50 2 27 2 4 1 40 1 17 0 53	16 37 1 51 11 38 0 48 6 13 0n17 0 34 1 22 5n 9 2 24	5 11 1 37 4 24 1 33 3 37 1 29 2 49 1 24 2 2 1 20 1 15 1 14 0 27 1 9	5 39 0 41 6 9 0 39 6 40 0 36 7 10 0 34 7 40 0 32	8 59 0 8 9 15 0 8	11 0 1 0	22 9 0 31 22 9 0 31 22 8 0 31 22 8 0 31 22 8 0 31	13 54 0 42 13 53 0 42 13 52 0 42 13 51 0 42 13 49 0 42	8 54 1 48 8 54 1 48 8 53 1 48 8 53 1 48 8 52 1 49	22 42 10 59 22 42 10 59 22 41 10 59 22 41 10 59 22 40 10 59	7 41 7 40 7 40 7 40 7 40 7 41 7 41	7 59 8 0 8 1 8 2 8 3	11 39 11 36 11 33 11 30 11 27	14 40 7 19 14 40 7 18 14 41 7 18 14 42 7 17 14 42 7 17 14 43 7 16 14 44 7 16
S 22 M23 T 24 W25 T 26 F 27 S 28	0 s17 0 40 1 4 1 27 1 51	20 41 4 44 24 30 5 7 27 11 5 15 28 25 5 7 28 0 4 42 25 49 4 0	1 6 0 58 1 53 0 51 2 39 0 45 3 25 0 39 4 10 0 32 4 55 0 26	9 9 0 24 1 9 39 0 21 1 10 8 0 19 1 10 37 0 16 1 11 5 0 13 1 11 34 0 11 1	0 1 0 6 0 16 0 5 0 32 0 4 0 47 0 4 1 2 0 3 1 17 0 3	11 34 0 59 11 38 0 59 11 42 0 59 11 46 0 59 11 51 0 58	22 6 0 31 22 6 0 31 22 6 0 31 22 5 0 31 22 5 0 31 22 5 0 31	13 46 0 42 13 45 0 42 13 44 0 42 13 43 0 42 13 42 0 42 13 41 0 42	8 51 1 49 8 50 1 49 8 50 1 49 8 49 1 49 8 48 1 49	22 39 11 0 22 39 11 0 22 38 11 1 22 38 11 1 22 38 11 1 22 37 11 1	7 42 7 44 7 45 7 45 7 46 7 46 7 46	8 7 8 8 8 9 8 11 8 12 8 13	11 17 11 14 11 11 11 7 11 4 11 1	14 44 7 15 14 45 7 15 14 45 7 14 14 46 7 14 14 46 7 13 14 47 7 13 14 47 7 12
M30	2 14 2 s38	22 0 3 2 16n46 1n52		12 2 0 8 1 12 s 30 0n 5 1	-	11 55 0 58 11 s59 0n58		13 40 0 42 13n39 0n42		22 37 11 2 22n36 11n 2	7 45 7 s45			14 48 7 12 14 s 49 7 n 1 1

 $\label{eq:Julian Day Number = 2345502.5, Delta T = 11.62 sec} \\ Ecliptic obliquity = 23°28'46, Nutation = 0°00'07, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°41'14, Lahiri = 19°48'15Greg. Calendar$

OCTOBER 1709 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂ [™]	4	ħ)Å(并	Р	n	ಭಿ	Ç	ę,	Day
T 1	0 38 6	7 ≏ 35'33	4 Mp 16	18 ≏ 20	4M22	1 M .34	4 M .17	15935	25 Ω 43	27°R 7	27 Ω 44	10°R15	8) (49	3) € 8	20 궁 30	T 1
W 2	0 42 2	8°34'44	19°12	19°56	5°36	2°16	4°29	15°38	25°46	27 Y 5	27°46	10) 15	8°46	3°14	20°30	W 2
T 3	0 45 59	9°33'58	4 ₽ 9	21°32	6°49	2°57	4°42	15°41	25°49	27° 4	27°47	10°13	8°43	3°21	20°30	T 3
F 4	0 49 55	10°33'14	18°59	23° 6	8° 3	3°38	4°54	15°43	25°52	27° 2	27°49	10°10	8°40	3°27	20°31	F 4
S 5	0 53 52	11°32'31	3 M .35	24°40	9°17	4°19	5° 7	15°46	25°55	27° 0	27°50	10° 6	8°37	3°34	20°31	S 5
S 6	0 57 49	12°31'51	17°49	26°14	10°30	5° 0	5°19	15°48	25°58	26°59	27°52	10° 1	8°34	3°41	20°32	S 6
M 7	1 1 45	13°31'13	1 ₹ 38	27°46	11°44	5°42	5°32	15°51	26° 0	26°57	27°53	9°56	8°30	3°47	20°32	M 7
T 8	1 5 42	14°30'37	15° 0	29°18	12°58	6°23	5°45	15°53	26° 3	26°56	27°55	9°51	8°27	3°54	20°33	T 8
W 9	1 9 38	15°30'02	27°57	0 M .49	14°11	7° 5	5°57	15°55	26° 6	26°54	27°56	9°48	8°24	4° 1	20°34	W 9
T 10	1 13 35	16°29'29	10 궁 30	2°19	15°25	7°46	6°10	15°58	26° 9	26°52	27°58	9°47	8°21	4° 7	20°35	T 10
F 11	1 17 31	17°28'58	22°44	3°49	16°38	8°28	6°23	16° 0	26°11	26°51	27°59	9°D47	8°18	4°14	20°36	F 11
S 12	1 21 28	18°28'29	4≈44	5°18	17°52	9°10	6°36	16° 2	26°14	26°49	28° 1	9°48	8°15	4°21	20°37	S 12
S 13	1 25 24	19°28'01	16°36	6°46	19° 5	9°51	6°49	16° 3	26°17	26°47	28° 2	9°50	8°11	4°27	20°38	S 13
M14	1 29 21	20°27'36	28°23	8°13	20°19	10°33	7° 2	16° 5	26°19	26°46	28° 3	9°51	8° 8	4°34	20°39	M14
T 15	1 33 18	21°27'12	10) 11	9°40	21°32	11°15	7°14	16° 7	26°22	26°44	28° 5	9°R52	8° 5	4°41	20°41	T 15
W16	1 37 14	22°26'49	22° 4	11° 6	22°46	11°57	7°27	16° 8	26°24	26°42	28° 6	9°51	8° 2	4°47	20°42	W16
T 17	1 41 11	23°26'29	4 Υ 5	12°31	23°59	12°39	7°40	16°10	26°27	26°41	28° 7	9°48	7°59	4°54	20°43	T 17
F 18	1 45 7	24°26'11	16°15	13°56	25°13	13°21	7°53	16°11	26°29	26°39	28° 9	9°43	7°55	5° 0	20°45	F 18
S 19	1 49 4	25°25'54	28°38	15°19	26°26	14° 3	8° 6	16°12	26°31	26°37	28°10	9°36	7°52	5° 7	20°46	S 19
S 20	1 53 0	26°25'40	11813	16°42	27°40	14°45	8°19	16°13	26°34	26°35	28°11	9°28	7°49	5°14	20°48	S 20
M21	1 56 57	27°25'28	24° 1	18° 3	28°53	15°27	8°32	16°14	26°36	26°34	28°12	9°19	7°46	5°20	20°50	M21
T 22	2 0 53	28°25'18	7 Ⅱ 2	19°24	0 ∡ 7 6	16°10	8°45	16°15	26°38	26°32	28°13	9°11	7°43	5°27	20°51	T 22
W23	2 4 50	29°25'10	20°15	20°44	1°20	16°52	8°59	16°15	26°40	26°30	28°14	9° 3	7°40	5°34	20°53	W23
T 24	2 8 46	0 M 25'04	39540	22° 2	2°33	17°34	9°12	16°16	26°43	26°29	28°16	8°58	7°36	5°40	20°55	T 24
F 25	2 12 43	1°25'01	17°17	23°19	3°46	18°17	9°25	16°17	26°45	26°27	28°17	8°55	7°33	5°47	20°57	F 25
S 26	2 16 40	2°25'00	1 0 6	24°35	5° 0	18°59	9°38	16°17	26°47	26°25	28°18	8°D54	7°30	5°54	20°59	S 26
S 27	2 20 36	3°25'00	15° 7	25°50	6°13	19°42	9°51	16°17	26°49	26°24	28°19	8°54	7°27	6° 0	21° 1	S 27
M28	2 24 33	4°25'03	29°20	27° 2	7°26	20°24	10° 4	16°17	26°51	26°22	28°20	8°55	7°24	6° 7	21° 4	M28
T 29	2 28 29	5°25'09	13 m) 44	28°13	8°39	21° 7	10°17	16°R17	26°53	26°20	28°21	8°R55	7°21	6°14	21° 6	T 29
W30	2 32 26	6°25'16	28°15	29°22	9°53	21°50	10°31	16°17	26°54	26°19	28°22	8°54	7°17	6°20	21° 8	W30
T 31	2 36 22	7 M 25'25	12 ≏ 49	0 ∡ 29	11 ×7 6	22M33	10 M .44	169917	26 Ω 56	26 ℃ 17	28 \Omega 23	8 ∺ 50	7 ∺ 14	6 ∺ 27	21 궁 11	T 31

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T 1 W 2 T 3 F 4	3 s 1 3 24 3 48	10n28 0n33 3 32 0s49 3 s36 2 7	7 50 0 8 33 0	0s 2 13 25 0s 0 0 9 13 52 0 3	12 31 0 1	12 8 0 58 12 12 0 58	22 3 0 31	13 37 0 42 13 36 0 42	8n46 1 s49 8 46 1 49 8 45 1 49	22 36 11 3 22 36 11 3	7 44 8 7 45 8	18 10 48 3 19 10 45	14 s 49 7 n 10 14 50 7 10 14 50 7 9
F 4 S 5	4 11 4 34	10 28 3 16 16 40 4 11			12 46 0 1 13 1 0 2	12 16 0 58 12 21 0 58			8 44 1 49 8 44 1 49			3 20 10 42 3 21 10 38	14 50 7 9 14 51 7 8
S 6 M 7 T 8 W 9 T 10 F 11 S 12	5 21 5 44 6 7	25 34 5 9 27 47 5 11 28 25 4 57 27 32 4 29 25 19 3 49	11 16 0 11 56 0 12 34 0 13 12 0 13 49 1	0 51 16 27 0 20 0 58 16 51 0 23 1 5 17 15 0 26	13 30 0 3 13 44 0 4 13 58 0 4	12 38 0 57 12 42 0 57 12 46 0 57	22 2 0 30 22 2 0 30 22 2 0 30 22 1 0 30 22 1 0 30	13 33 0 42 13 32 0 42 13 31 0 42 13 30 0 42 13 29 0 42 13 29 0 42 13 28 0 43	8 40 1 49	22 34 11 4 22 34 11 4	7 52 8 7 53 8 7 54 8 7 55 8 7 55 8	27 10 22	14 52 7 7 14 52 7 7 14 53 7 6 14 53 7 6 14 53 7 5
S 13 M14 T 15 W16 T 17 F 18 S 19	7 38 8 0 8 23 8 45 9 7 9 29 9 51	17 51 2 3 13 1 1 2 7 44 0n 2 2 9 1 6 3n34 2 7 9 14 3 4	15 2 1 15 36 1 16 10 1 16 44 1 17 16 1 17 47 1	1 18 18 2 0 32 1 25 18 25 0 35 1 31 18 47 0 38 1 38 19 9 0 41 1 44 19 30 0 44	14 54 0 7 15 8 0 8 15 22 0 8 15 35 0 9 15 49 0 9 16 2 0 10	12 55 0 57 12 59 0 57 13 4 0 57 13 8 0 57	22 1 0 30 22 1 0 30 22 0 0 30	13 27 0 43 13 26 0 43 13 25 0 43 13 24 0 43	8 39 1 49 8 38 1 49 8 38 1 49 8 37 1 49 8 37 1 49 8 36 1 49	22 33 11 6 22 33 11 6 22 33 11 6 22 33 11 7 22 32 11 7	7 54 8 7 53 8 7 53 8 7 53 8 7 54 8 7 56 8	3 31 10 12 3 32 10 9 3 33 10 6 3 34 10 3 3 36 9 59 3 37 9 56	14 54 7 4 14 55 7 3
S 20 M21 T 22 W23 T 24 F 25 S 26	10 13 10 34 10 56 11 17 11 38 11 59 12 20	23 35 4 56 26 33 5 7 28 8 5 1 28 5 4 39 26 21 4 1	20 10 2 20 35 2 20 59 2	2 7 20 50 0 55 2 12 21 9 0 58 2 17 21 27 1 1 2 22 21 45 1 3 2 26 22 1 1 6	16 41 0 12 16 54 0 12 17 7 0 13 17 19 0 14 17 32 0 14	13 25 0 56 13 29 0 56 13 33 0 56 13 38 0 56 13 42 0 56 13 46 0 56 13 50 0 56	22 0 0 30 22 0 0 30	13 20 0 43 13 19 0 43 13 18 0 43		22 32 11 9 22 32 11 9 22 32 11 9	8 5 8 8 9 8 8 11 8 8 13 8 8 14 8	3 40 9 46 3 41 9 43 3 43 9 40 3 44 9 37 3 45 9 33	14 56 7 0 14 57 7 0 14 57 6 59 14 57 6 59 14 57 6 58 14 58 6 58 14 58 6 57
S 27 M28 T 29 W30 T 31	12 40 13 1 13 21 13 41 14s 1	12 31 0 51 6 1 0s26 0s51 1 42	22 5 2 22 24 2 22 42 2		18 8 0 16 18 20 0 17 18 32 0 17	14 7 0 56	22 0 0 30 22 0 0 29 22 0 0 29	13 15 0 43	8 30 1 49 8 30 1 49 8 29 1 49 8 29 1 49 8n28 1 s49	22 32 11 11 22 32 11 12	8 14 8 8 14 8 8 15 8	3 49 9 23 3 50 9 20 3 51 9 17	14 58 6 57 14 58 6 56 14 58 6 56 14 59 6 55 14s59 6n55

Julian Day Number = 2345532.5, Delta T = 11.60 sec Ecliptic obliquity = $23^{\circ}28'46$, Nutation = $0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}41'18$, Lahiri = $19^{\circ}48'19$ Greg. Calendar

NOVEMBER 1709 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)Å(¥	Р	'n	Ω	Ç	ę,	Day
F 1	2 40 19	8M25'37	27 <u>₽</u> 20	1 √ 34	12 √ 19	23 M .15	10 M .57	16°R17	26€58	26°R15	28 Ω 24	8°R43	7 ∺ 11	6) (34	21 궁 13	F 1
S 2	2 44 15	9°25'50	11 M 42	2°35	13°32	23°58	11°10	16916	27° 0	26 Y 14	28°24	8 ∺ 34	7° 8	6°40	21°16	S 2
S 3	2 48 12	10°26'05	25°49	3°34	14°45	24°41	11°23	16°16	27° 1	26°12	28°25	8°24	7° 5	6°47	21°18	S 3
M 4	2 52 9	11°26'22	9 ∡ 734	4°29	15°58	25°24	11°37	16°15	27° 3	26°11	28°26	8°13	7° 1	6°53	21°21	M 4
T 5	2 56 5	12°26'40	22°56	5°20	17°12	26° 7	11°50	16°14	27° 5	26° 9	28°27	8° 3	6°58	7° 0	21°24	T 5
W 6	3 0 2	13°27'00	5 궁 54	6° 7	18°25	26°51	12° 3	16°14	27° 6	26° 7	28°28	7°55	6°55	7° 7	21°26	W 6
T 7	3 3 58	14°27'22	18°30	6°49	19°38	27°34	12°16	16°13	27° 7	26° 6	28°28	7°49	6°52	7°13	21°29	T 7
F 8	3 7 55	15°27'45	0≈45	7°25	20°51	28°17	12°29	16°11	27° 9	26° 4	28°29	7°46	6°49	7°20	21°32	F 8
S 9	3 11 51	16°28'09	12°46	7°56	22° 4	29° 0	12°43	16°10	27°10	26° 3	28°30	7°D45	6°46	7°27	21°35	S 9
S 10	3 15 48	17°28'35	24°38	8°20	23°17	29°44	12°56	16° 9	27°12	26° 1	28°30	7°45	6°42	7°33	21°38	S 10
M11	3 19 45	18°29'02	6 ∺ 26	8°36	24°30	0 х 27	13° 9	16° 7	27°13	26° 0	28°31	7°R45	6°39	7°40	21°41	M11
T 12	3 23 41	19°29'30	18°15	8°R44	25°42	1°11	13°22	16° 6	27°14	25°58	28°32	7°45	6°36	7°47	21°45	T 12
W13	3 27 38	20°30'00	0 Υ 10	8°43	26°55	1°54	13°35	16° 4	27°15	25°57	28°32	7°43	6°33	7°53	21°48	W13
T 14	3 31 34	21°30'31	12°16	8°32	28° 8	2°38	13°49	16° 3	27°16	25°55	28°33	7°38	6°30	8° 0	21°51	T 14
F 15	3 35 31	22°31'04	24°37	8°12	29°21	3°22	14° 2	16° 1	27°17	25°54	28°33	7°30	6°26	8° 7	21°54	F 15
S 16	3 39 27	23°31'38	7 8 14	7°40	0 궁 34	4° 5	14°15	15°59	27°18	25°52	28°34	7°20	6°23	8°13	21°58	S 16
S 17	3 43 24	24°32'13	20° 8	6°59	1°46	4°49	14°28	15°57	27°19	25°51	28°34	7° 8	6°20	8°20	22° 1	S 17
M18	3 47 20	25°32'50	3 I I18	6° 7	2°59	5°33	14°41	15°55	27°20	25°49	28°34	6°54	6°17	8°26	22° 5	M18
T 19	3 51 17	26°33'28	16°43	5° 5	4°11	6°17	14°54	15°52	27°21	25°48	28°35	6°42	6°14	8°33	22° 8	T 19
W20	3 55 14	27°34'08	0920	3°55	5°24	7° 1	15° 7	15°50	27°22	25°47	28°35	6°30	6°11	8°40	22°12	W20
T 21	3 59 10	28°34'50	14° 7	2°39	6°37	7°45	15°21	15°47	27°22	25°45	28°35	6°22	6° 7	8°46	22°16	T 21
F 22	4 3 7	29°35'33	28° 0	1°18	7°49	8°29	15°34	15°45	27°23	25°44	28°36	6°16	6° 4	8°53	22°19	F 22
S 23	4 7 3	0 ∡ 36'17	11 Ω 57	29M56	9° 1	9°13	15°47	15°42	27°24	25°42	28°36	6°13	6° 1	9° 0	22°23	S 23
S 24	4 11 0	1°37'03	25°59	28°35	10°14	9°57	16° 0	15°39	27°24	25°41	28°36	6°12	5°58	9° 6	22°27	S 24
M25	4 14 56	2°37'51	10 mg 3	27°17	11°26	10°41	16°13	15°37	27°25	25°40	28°36	6°12	5°55	9°13	22°31	M25
T 26	4 18 53	3°38'40	24°10	26° 6	12°38	11°25	16°26	15°34	27°25	25°39	28°37	6°12	5°52	9°20	22°35	T 26
W27	4 22 49	4°39'31	8 亞 18	25° 3	13°51	12°10	16°38	15°31	27°25	25°37	28°37	6° 9	5°48	9°26	22°39	W27
T 28	4 26 46	5°40'23	22°26	24°11	15° 3	12°54	16°51	15°27	27°26	25°36	28°37	6° 4	5°45	9°33	22°43	T 28
F 29	4 30 43	6°41'16	6 M .30	23°29	16°15	13°38	17° 4	15°24	27°26	25°35	28°37	5°56	5°42	9°40	22°47	F 29
S 30	4 34 39	7 .₹ 42'11	20 M 27	22M58	17 云 27	14 × ⁷ 23	17 M .17	159521	$27\Omega_{26}$	25 Y 34	28 N 37	5) 44	5 ₩ 39	9){ 46	22 궁 51	S 30

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S 3 M 4 T 5 W 6	15 36 15 54	26 55 5 28 11 4 27 49 4	1 54 23 5 1 29 24	2 47 2 46 3 2 44	24 16 1 32 24 25 1 34 24 35 1 37	19 28 0 20 19 39 0 21 19 50 0 21	14 36 0 55	22 0 0 29 22 0 0 29 22 1 0 29	13 12 0 43 13 11 0 43 13 11 0 43	8 26 1 49 8 25 1 49 8 25 1 49	22 32 11 14 22 32 11 15	8 30 8 3 8 34 8 3 8 37 8 3	57 9 0 58 8 57 59 8 54	14 59 6 53 14 59 6 53 14 59 6 52 14 59 6 52
F 8 S 9 S 10	16 12 16 30 16 47	23 1 3 19 4 2	2 9 24 1	2 37 2 2 32 2	24 57 1 43	20 11 0 23 20 21 0 23	14 40 0 55 14 44 0 55 14 48 0 55 14 52 0 55	22 1 0 29 22 1 0 29	13 10 0 44 13 9 0 44	8 23 1 49	22 32 11 15 22 32 11 15 22 32 11 16 22 32 11 16	8 39 9 8 40 9 8 41 9 8 41 9	2 8 47 3 8 44	14 59 6 51 14 59 6 51 14 59 6 50 14 59 6 50
M11 T 12 W13 T 14 F 15 S 16	17 21 17 38 17 54 18 10 18 26 18 41	9 17 0 3 48 0 1n51 1 7 30 2 12 59 3		3 2 18 2 5 2 9 2 5 1 59 2 1 47 2 5 1 33 2	25 9 1 47 25 14 1 49 25 18 1 51 25 21 1 53 25 23 1 55	20 41 0 24 20 50 0 25 21 0 0 25 21 9 0 26 21 18 0 27	14 56 0 55 15 0 0 55 15 4 0 55 15 8 0 55	22 2 0 29 22 3 0 29	13 9 0 44 13 8 0 44 13 8 0 44 13 8 0 44 13 7 0 44	8 22 1 49 8 21 1 49 8 21 1 49 8 20 1 49 8 20 1 49	22 33 11 16 22 33 11 17	8 40 9 8 41 9 8 41 9 8 43 9 8 46 9 8 50 9	5 8 37 6 8 34 7 8 31 9 8 28 10 8 24	14 59 6 50 14 59 6 49 14 59 6 49 14 59 6 48 14 59 6 48 14 59 6 47
S 17 M18 T 19 W20 T 21 F 22 S 23	19 11 19 25 19 39 19 53 20 6	25 45 5 27 43 4 28 4 4	1 56 21 3 1 35 21 3 3 58 20 2 3 7 19 5	5 0 43 2 5 0 24 2 2 0 4 2 8 0n16 2 0 37 2	25 26 2 0 25 26 2 1 25 24 2 2 25 22 2 4 25 20 2 5	21 44 0 28 21 52 0 29 22 0 0 29 22 8 0 30 22 15 0 31	15 20 0 55 15 24 0 55 15 28 0 55 15 32 0 55 15 35 0 55 15 39 0 55 15 43 0 55	22 4 0 28 22 4 0 28 22 4 0 28 22 4 0 28 22 5 0 28 22 5 0 28	13 6 0 44 13 6 0 44 13 6 0 44 13 6 0 44 13 6 0 44	8 18 1 49 8 18 1 49 8 17 1 49 8 17 1 49 8 17 1 49	22 34 11 20 22 35 11 20		13 8 14 14 8 11 16 8 8 17 8 4 18 8 1	14 59 6 47 14 59 6 47 14 58 6 46 14 58 6 46 14 58 6 45 14 58 6 45 14 58 6 45
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Julian Day Number = 2345563.5, Delta T = 11.58 sec Ecliptic obliquity = $23^{\circ}28'46$, Nutation = $0^{\circ}00'05$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}41'23$, Lahiri = $19^{\circ}48'23$ Greg. Calendar

DECEMBER 1709 00:00 UT

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M 2	4 42 32	9°44'04	1 <u>7</u> °42	22°D32	19°51	15°52	17°43	159914	27°26	25 Y 32	28 Ω 37	5 ∺ 18	5°32	10° 0	23° 0	M 2
T 3	4 46 29	10°45'02	0 궁 53	22 M 35	21° 3	16°37	17°55	15°10	27°R26	25°31	28°37	5° 5	5°29	10° 6	23° 4	T 3
W 4	4 50 25	11°46'01	13°45	22°47	22°15	17°21	18° 8	15° 7	27°26	25°29	28°37	4°55	5°26	10°13	23° 8	W 4
T 5	4 54 22	12°47'01	26°17	23° 9	23°27	18° 6	18°21	15° 3	27°26	25°28	28°37	4°47	5°23	10°19	23°12	T 5
F 6	4 58 18	13°48'02	8≈32	23°39	24°38	18°51	18°33	14°59	27°26	25°27	28°36	4°41	5°20	10°26	23°17	F 6
S 7	5 2 15	14°49'03	20°33	24°16	25°50	19°36	18°46	14°55	27°26	25°26	28°36	4°39	5°17	10°33	23°21	S 7
S 8	5 6 12	15°50'04	2 ∺ 25	25° 0	27° 2	20°21	18°58	14°51	27°26	25°26	28°36	4°D38	5°13	10°39	23°26	S 8
M 9	5 10 8	16°51'07	14°12	25°50	28°13	21° 6	19°11	14°47	27°25	25°25	28°36	4°R38	5°10	10°46	23°30	M 9
T 10	5 14 5	17°52'09	26° 1	26°44	29°24	21°51	19°23	14°43	27°25	25°24	28°36	4°38	5° 7	10°53	23°35	T 10
W11	5 18 1	18°53'12	7 Ƴ 57	27°43	0≈36	22°36	19°36	14°39	27°25	25°23	28°35	4°36	5° 4	10°59	23°39	W11
T 12	5 21 58	19°54'16	20° 5	28°46	1°47	23°21	19°48	14°35	27°24	25°22	28°35	4°32	5° 1	11° 6	23°44	T 12
F 13	5 25 54	20°55'20	2830	29°53	2°58	24° 6	20° 0	14°31	27°24	25°21	28°35	4°26	4°58	11°13	23°49	F 13
S 14	5 29 51	21°56'24	15°15	1 √ 2	4° 9	24°51	20°13	14°26	27°23	25°20	28°34	4°17	4°54	11°19	23°53	S 14
S 15	5 33 47	22°57'29	28°22	2°14	5°20	25°36	20°25	14°22	27°22	25°20	28°34	4° 6	4°51	11°26	23°58	S 15
M16	5 37 44	23°58'35	11 II 51	3°28	6°31	26°22	20°37	14°17	27°22	25°19	28°33	3°54	4°48	11°33	24° 3	M16
T 17	5 41 41	24°59'41	25°39	4°45	7°42	27° 7	20°49	14°13	27°21	25°18	28°33	3°42	4°45	11°39	24° 7	T 17
W18	5 45 37	26° 0'47	99542	6° 3	8°52	27°52	21° 1	14° 8	27°20	25°18	28°32	3°31	4°42	11°46	24°12	W18
T 19	5 49 34	27° 1'54	23°56	7°22	10° 3	28°38	21°13	14° 4	27°19	25°17	28°32	3°23	4°39	11°53	24°17	T 19
F 20	5 53 30	28° 3'01	8 Ω 15	8°43	11°13	29°23	21°25	13°59	27°18	25°17	28°31	3°18	4°35	11°59	24°22	F 20
S 21	5 57 27	29° 4'09	22°35	10° 5	12°23	0중 9	21°37	13°54	27°17	25°16	28°31	3°16	4°32	12° 6	24°27	S 21
S 22	6 1 23	0පි 5'18	6 m 51	11°29	13°33	0°54	21°48	13°50	27°16	25°15	28°30	3°D15	4°29	12°12	24°32	S 22
M23	6 5 20	1° 6'27	21° 2	12°53	14°44	1°40	22° 0	13°45	27°15	25°15	28°29	3°16	4°26	12°19	24°37	M23
T 24	6 9 17	2° 7'36	5 º 6	14°18	15°53	2°25	22°12	13°40	27°14	25°15	28°29	3°R16	4°23	12°26	24°42	T 24
W25	6 13 13	3° 8'46	19° 2	15°44	17° 3	3°11	22°23	13°35	27°13	25°14	28°28	3°15	4°19	12°32	24°47	W25
T 26	6 17 10	4° 9'57	2 M .51	17°10	18°13	3°57	22°35	13°30	27°12	25°14	28°27	3°11	4°16	12°39	24°52	T 26
F 27	6 21 6	5°11'08	16°31	18°37	19°22	4°42	22°46	13°26	27°11	25°13	28°26	3° 5	4°13	12°46	24°57	F 27
S 28	6 25 3	6°12'19	0 水 1	20° 5	20°32	5°28	22°58	13°21	27° 9	25°13	28°26	2°57	4°10	12°52	25° 2	S 28
S 29	6 28 59	7°13'31	13°20	21°34	21°41	6°14	23° 9	13°16	27° 8	25°13	28°25	2°47	4° 7	12°59	25° 7	S 29
M30	6 32 56	8°14'43	2 <u>6</u> °26	23° 2	22°50	<u>7°</u> 0	23°20	13°11	27° 7	25°13	28°24	2°37	4° 4	13° 6	2 <u>5</u> °12	M30
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T 10 W11 T 12	22 43 22 50 22 55 23 1 23 6 23 10	5 27 0n51 0n 7 1 51 5 43 2 47 11 12 3 37	17 30 2 1 17 50 2		0 0 40 10 4 0 40 10 7 0 41 10 0 0 41 10	6 40 0 55 6 44 0 55 6 47 0 55 6 50 0 55	22 12 0 27 22 13 0 27 22 13 0 27 22 14 0 27 22 14 0 27 22 15 0 27	13 5 0 45 13 6 0 45 13 6 0 45 13 6 0 45		22 41 11 28 22 42 11 28 22 42 11 29 22 43 11 29	9 50 9 3 9 50 9 3 9 50 9 3 9 50 9 4 9 52 9 4 9 54 9 54	38 7 5 39 7 1 40 6 58 41 6 55	14 53 6 40 14 52 6 39 14 52 6 39 14 51 6 39 14 51 6 38 14 50 6 38
S 15 M16 T 17 W18	23 20 23 23 23 25	24 43 5 0 27 11 4 59 28 5 4 40 27 11 4 5		31 20 25 2 6 24 1 23 20 5 2 5 24 1	0 44 17	7 0 0 55 7 3 0 55 7 6 0 55 7 10 0 55	22 15 0 27 22 16 0 26 22 16 0 26 22 17 0 26 22 18 0 26 22 18 0 26	13 7 0 45 13 7 0 45 13 7 0 45 13 8 0 45	8 9 1 48 8 8 1 47 8 8 1 47 8 8 1 47	22 44 11 30 22 45 11 31 22 45 11 31 22 46 11 31	10 6 9 4 10 10 9 4 10 14 9 4	15 6 45 16 6 41 17 6 38 18 6 34	14 50 6 38 14 49 6 38 14 49 6 37 14 48 6 37 14 47 6 37 14 47 6 37
S 21 S 22	23 29 23 29	14 54 0 57 8 43 0s19	21 1 1 21 21 0 5	8 19 24 2 2 24 1 0 19 2 2 0 24 1 52 18 40 1 59 24 1	0 46 17	7 19 0 55 7 22 0 55	22 19 0 26 22 19 0 26 22 20 0 26	13 9 0 45 13 9 0 45	8 8 1 47 8 7 1 47	22 47 11 32 1 22 48 11 33 1 22 48 11 33 1	10 20 9 : 10 20 9 :	62 6 24 63 6 21	14 46 6 37 14 46 6 36 14 45 6 36
T 24 W25 T 26	23 25	4s30 2 42 10 51 3 39 16 36 4 24	22 31 0 2	36 17 55 1 55 24 1 28 17 32 1 53 24 1	0 47 17 0 47 17 0 48 17	7 28 0 55 7 31 0 55 7 34 0 55	22 22 0 26 22 22 0 25	13 9 0 46 13 10 0 46 13 10 0 46 13 11 0 46 13 11 0 46	8 7 1 47 8 7 1 47 8 7 1 47	22 50 11 34 22 51 11 34	10 19 9 10 20 9 10 21	65 6 14 66 6 11 68 6 8	14 44 6 36 14 44 6 36 14 43 6 36 14 42 6 35 14 42 6 35
S 28 S 29 M30	23 20 23 17 23 13	25 9 5 5 27 24 5 0 28 5 4 39	23 1 0 23 15 0s 23 27 0	5 16 20 1 46 24 1 2 15 55 1 43 24 9 15 30 1 40 24 17 15s 5 1 s37 24s	0 49 17 0 0 49 17 7 0 50 17	7 39 0 55 7 42 0 55 7 45 0 55	22 23 0 25 22 24 0 25 22 25 0 25	13 12 0 46 13 12 0 46 13 13 0 46 13n13 0n46	8 7 1 47 8 7 1 47 8 7 1 47		10 26 10 10 30 10 10 34 10	0 6 1 1 5 58 2 5 54	14 41 6 35 14 40 6 35 14 39 6 35 14 39 6 35

Julian Day Number = 2345593.5, Delta T = 11.57 sec Ecliptic obliquity = 23°28'45, Nutation = $0^\circ00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^\circ41'27$, Lahiri = $19^\circ48'27$ Greg. Calendar