

Astrodienst Ephemeris Tables for the year 1609

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 1609 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	♂	4	ħ)∤(¥	Р	n	Ω	Ç	ķ	Day
T 1	6 42 37	10 3 48'11	10 M .58	3°R15	4≈10	1 Υ 55	5 8 53	0≈ 3	5°R33	17°R42	0°R 4	6°R21	7 Ω 22	13 ₾ 38	19 × 22	T 1
F 2	6 46 34	11°49'22	23°10	2중 8	5°25	2°34	5°53	0° 9	5耳31	17 m)41	0 8 3	6 Ω 18	7°19	13°44	19°28	F 2
S 3	6 50 31	12°50'33	5 ₹ 38	1°11	6°39	3°13	5°53	0°16	5°29	17°41	0° 3	6°14	7°16	13°51	19°35	S 3
S 4	6 54 27	13°51'44	18°22	0°22	7°54	3°52	5°54	0°23	5°27	17°40	0° 3	6°10	7°13	13°58	19°41	S 4
M 5	6 58 24	14°52'55	1 云 23	29 х 43	9° 9	4°31	5°55	0°30	5°25	17°40	0° 3	6° 7	7°10	14° 4	19°48	M 5
T 6	7 2 20	15°54'05	14°42	29°14	10°24	5°10	5°56	0°37	5°24	17°39	0° 2	6° 4	7° 7	14°11	19°54	T 6
W 7	7 6 17	16°55'15	28°16	28°55	11°38	5°49	5°58	0°44	5°22	17°39	0° 2	6° 3	7° 3	14°18	20° 1	W 7
T 8	7 10 13	17°56'25	12≈ 4	28°45	12°53	6°29	5°59	0°51	5°20	17°38	0° 2	6°D 3	7° 0	14°25	20° 7	T 8
F 9	7 14 10	18°57'34	26° 2	28°D44	14° 8	7° 8	6° 1	0°58	5°19	17°37	0° 2	6° 4	6°57	14°31	20°13	F 9
S 10	7 18 7	19°58'43	10 ∺ 8	28°51	15°22	7°47	6° 3	1° 5	5°17	17°37	0° 2	6° 5	6°54	14°38	20°20	S 10
S 11	7 22 3	20°59'50	24°18	29° 6	16°37	8°26	6° 5	1°12	5°15	17°36	0° 2	6° 6	6°51	14°45	20°26	S 11
M12	7 26 0	22° 0'57	8 Y 30	29°28	17°52	9° 6	6° 8	1°19	5°14	17°35	0° 2	6° 7	6°47	14°51	20°32	M12
T 13	7 29 56	23° 2'03	22°42	29°56	19° 6	9°45	6°10	1°27	5°12	17°34	0°D 2	6°R 7	6°44	14°58	20°38	T 13
W14	7 33 53	24° 3'08	6 8 51	0 궁 31	20°21	10°24	6°13	1°34	5°11	17°34	0° 2	6° 7	6°41	15° 5	20°44	W14
T 15	7 37 49	25° 4'11	20°55	1°10	21°35	11° 4	6°16	1°41	5°10	17°33	0° 2	6° 6	6°38	15°12	20°50	T 15
F 16	7 41 46	26° 5'15	4 Ⅱ 53	1°54	22°49	11°43	6°19	1°48	5° 8	17°32	0° 2	6° 5	6°35	15°18	20°56	F 16
S 17	7 45 42	27° 6'17	18°41	2°42	24° 4	12°23	6°23	1°55	5° 7	17°31	0° 2	6° 4	6°32	15°25	21° 2	S 17
S 18	7 49 39	28° 7'18	29519	3°34	25°18	13° 2	6°26	2° 2	5° 6	17°30	0° 2	6° 3	6°28	15°32	21° 8	S 18
M19	7 53 36	29° 8'18	15°43	4°30	26°33	13°41	6°30	2° 9	5° 4	17°29	0° 2	6° 2	6°25	15°38	21°14	M19
T 20	7 57 32	0≈ 9'17	28°53	5°29	27°47	14°21	6°34	2°16	5° 3	17°28	0° 2	6° 2	6°22	15°45	21°20	T 20
W21	8 1 29	1°10'16	11 A 48	6°31	29° 1	15° 0	6°38	2°24	5° 2	17°27	0° 2	6°D 2	6°19	15°52	21°26	W21
T 22	8 5 25	2°11'13	24°27	7°35	0 € 15	15°40	6°42	2°31	5° 1	17°26	0° 3	6° 2	6°16	15°59	21°32	T 22
F 23	8 9 22	3°12'10	6 m 51	8°41	1°30	16°19	6°47	2°38	5° 0	17°25	0° 3	6° 2	6°13	16° 5	21°37	F 23
S 24	8 13 18	4°13'06	19° 2	9°50	2°44	16°59	6°52	2°45	4°59	17°24	0° 3	6° 3	6° 9	16°12	21°43	S 24
S 25	8 17 15	5°14'01	1 ♀ 4	11° 1	3°58	17°38	6°56	2°52	4°58	17°23	0° 3	6° 3	6° 6	16°19	21°48	S 25
M26	8 21 11	6°14'55	12°58	12°14	5°12	18°18	7° 1	2°59	4°57	17°22	0° 4	6°R 3	6° 3	16°25	21°54	M26
T 27	8 25 8	7°15'48	24°50	13°28	6°26	18°57	7° 7	3° 6	4°56	17°20	0° 4	6° 3	6° 0	16°32	21°59	T 27
W28	8 29 4	8°16'40	6 M .44	14°44	7°40	19°37	7°12	3°14	4°56	17°19	0° 4	6°D 3	5°57	16°39	22° 5	W28
T 29	8 33 1	9°17'32	18°44	16° 2	8°54	20°16	7°18	3°21	4°55	17°18	0° 5	6° 3	5°53	16°46	22°10	T 29
F 30	8 36 58	10°18'23	0 x ⁷ 56	17°20	10° 8	20°56	7°23	3°28	4°54	17°17	0° 5	6° 3	5°50	16°52	22°16	F 30
S 31	8 40 54	11≈19'13	13 × 23	18 ට 41	11 米 22	21 Y 35	7 8 29	3 ≈ 35	4 Ⅱ 54	17 M 16	0 8 5	6 Ω 3	5 Ω 47	16 ≏ 59	22 × 21	S 31

Day	0	D	ğ	Q	♂	4	ħ)Å(卉	Р	v v	€ §
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl decl lat
		13 45 5 0	20 12 3 1	1 20 s50 1 s37 6 20 32 1 37 9 20 14 1 38		12 27 1 8	20 37 0 28	21n12 0s 4 21 12 0 4 21 12 0 4	5n55 1n 8 5 55 1 8 5 56 1 8	4 5 16 38	18n43 18n28 18 44 18 29 18 45 18 30	1 s 3 18 s 4 5 n 0 1 5 18 4 5 1 1 7 18 5 5 1
	22 25	20 29 3 0 20 46 1 55 19 51 0 43 17 45 0s33	20 12 3 1 20 15 3 1 20 20 3	4 19 15 1 39 9 18 55 1 39 3 18 34 1 39	1 29 0 4 1 46 0 3 2 2 0 1 2 19 0 0 2 36 0n 1 2 52 0 2	12 28 1 7 12 29 1 6 12 30 1 6 12 31 1 6	20 32 0 28 20 31 0 28 20 30 0 28 20 28 0 28	21 11 0 4 21 10 0 4 21 10 0 4	5 56 1 9 5 56 1 9 5 56 1 9 5 57 1 9 5 57 1 9 5 57 1 9	4 4 16 37 4 4 16 36 4 4 16 36 4 3 16 36	18 46 18 30 18 47 18 31 18 48 18 32 18 48 18 33 18 48 18 34 18 48 18 34	1 10 18 5 5 1 1 12 18 5 5 2 1 14 18 5 5 2 1 16 18 5 5 2 1 19 18 5 5 3 1 21 18 5 5 3
S 11 M12 T 13 W14 T 15 F 16		5 53 3 56 0 55 4 41 4n 5 5 8 8 50 5 16 13 6 5 6 16 36 4 38	20 49 2 4 20 58 2 3 21 8 2 2 21 18 2 1 21 27 2 21 37 1 5	1 16 41 1 38 2 16 17 1 38 2 15 53 1 38 2 15 28 1 37	3 25 0 5 3 42 0 6 3 59 0 7 4 15 0 8 4 32 0 9 4 48 0 10	12 33 1 5 12 35 1 5 12 36 1 4 12 37 1 4 12 38 1 4 12 39 1 3	20 24 0 28 20 22 0 28 20 21 0 29 20 19 0 29 20 18 0 29 20 16 0 29	21 9 0 4 21 9 0 4 21 9 0 4 21 8 0 4 21 8 0 4	5 58 1 9 5 58 1 9 5 58 1 9 5 59 1 9 5 59 1 9 6 0 1 9	4 2 16 34 4 2 16 34 4 2 16 34 4 1 16 33 4 1 16 33	18 47 18 35 18 47 18 36 18 47 18 37 18 47 18 38 18 47 18 38 18 47 18 39 18 47 18 40	1 23 18 5 5 3 1 25 18 6 5 4 1 28 18 6 5 4 1 30 18 6 5 4 1 32 18 6 5 5 1 34 18 6 5 5 1 37 18 6 5 6
S 18 M19	20 22 20 10 19 56	20 32 2 56 20 44 1 50 19 47 0 40 17 48 0n32 14 59 1 40 11 32 2 43	22 3 1 2 22 11 1 1 22 18 1 22 24 0 5 22 30 0 4	2 14 37 1 36 2 14 11 1 35 2 13 44 1 34 2 13 18 1 33	5 37 0 13 5 53 0 14 6 10 0 15 6 26 0 16 6 42 0 17	12 41 1 3 12 42 1 3 12 44 1 2 12 45 1 2 12 47 1 2 12 49 1 2 12 50 1 1 12 52 1 1	20 13 0 29 20 11 0 29 20 10 0 29 20 8 0 29 20 7 0 29 20 5 0 29	21 8 0 4 21 8 0 4 21 7 0 4 21 7 0 4 21 7 0 4 21 7 0 4	6 0 1 9 6 1 1 9 6 1 1 9 6 1 1 9 6 2 1 9 6 2 1 9 6 3 1 9 6 3 1 9	4 0 16 32 4 0 16 32 3 59 16 31 3 59 16 31 3 58 16 31 3 58 16 30	18 48 18 41 18 48 18 42 18 48 18 42 18 48 18 43 18 48 18 44 18 48 18 45 18 48 18 46 18 48 18 46	1 39 18 6 5 6 1 41 18 6 5 6 1 44 18 6 5 7 1 46 18 6 5 7 1 48 18 6 5 8 1 50 18 6 5 8 1 53 18 5 5 8 1 55 18 5 5 9
		0 s 3 9 4 5 2 4 4 8 5 1 1 8 4 7 5 1 7 12 2 8 5 1 0 1 5 4 1 4 4 8	22 41 0 1	1 9 32 1 23 9 9 3 1 22	7 30 0 20 7 46 0 21 8 2 0 22 8 17 0 23 8 33 0 24	12 56 1 0 12 58 1 0 13 0 1 0 13 2 1 0 13 4 0 59	19 59 0 30 19 57 0 30 19 56 0 30 19 54 0 30	21 6 0 4 21 6 0 4 21 6 0 4 21 6 0 4	6 4 1 9 6 4 1 9 6 5 1 9 6 5 1 9 6 6 1 10 6 6 1 10 6n 7 1n10	3 57 16 29 3 56 16 29 3 56 16 28 3 55 16 28 3 55 16 28	18 48 18 47 18 48 18 48 18 48 18 49 18 48 18 50 18 48 18 51 18n48 18n52	1 57 18 5 5 9 2 0 18 5 5 10 2 2 18 5 5 10 2 4 18 5 5 11 2 6 18 5 5 11 2 9 18 5 5 12 2 511 18 4 5 512

Julian Day Number = 2308735.5, Delta T = 77.78 sec Ecliptic obliquity = $23^{\circ}29'18$, Nutation = - $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'00$, Lahiri = $18^{\circ}24'00$ Greg. Calendar

FEBRUARY 1609 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	S.	Ω	Ç	o k	Day
S 1	8 44 51	12≈20'01	26 ₹ 9	20중 2	12) 36	22 Y 15	7 8 35	3≈42	4°R53	17°R14	0 8 6	6 Ω 4	5 Ω 44	17 ♀ 6	22 × 126	S 1
M 2	8 48 47	13°20'49	9 궁 17	21°24	13°49	22°55	7°42	3°49	4 Ⅱ 53	17 m)13	0° 6	6° 5	5°41	17°12	22°31	M 2
T 3	8 52 44	14°21'36	22°48	22°48	15° 3	23°34	7°48	3°56	4°52	17°12	0° 7	6° 5	5°38	17°19	22°36	T 3
W 4	8 56 40	15°22'22	6≈41	24°13	16°17	24°14	7°55	4° 3	4°52	17°10	0° 7	6°R 5	5°34	17°26	22°41	W 4
T 5	9 0 37	16°23'06	20°53	25°39	17°30	24°53	8° 1	4°10	4°51	17° 9	0° 7	6° 5	5°31	17°33	22°46	T 5
F 6	9 4 34	17°23'48	5 ∺ 20	27° 5	18°44	25°33	8° 8	4°17	4°51	17° 8	0° 8	6° 4	5°28	17°39	22°51	F 6
S 7	9 8 30	18°24'30	19°56	28°33	19°58	26°12	8°15	4°24	4°51	17° 6	0° 8	6° 3	5°25	17°46	22°56	S 7
S 8	9 12 27	19°25'09	4 Υ34	0≈ 2	21°11	26°52	8°23	4°31	4°51	17° 5	0° 9	6° 1	5°22	17°53	23° 0	S 8
M 9	9 16 23	20°25'47	19° 9	1°32	22°25	27°32	8°30	4°38	4°50	17° 3	0°10	6° 0	5°18	17°59	23° 5	M 9
T 10	9 20 20	21°26'23	3 8 34	3° 2	23°38	28°11	8°38	4°45	4°50	17° 2	0°10	5°58	5°15	18° 6	23°10	T 10
W11	9 24 16	22°26'57	17°46	4°34	24°51	28°51	8°45	4°52	4°D50	17° 0	0°11	5°D58	5°12	18°13	23°14	W11
T 12	9 28 13	23°27'30	1 Ⅱ 44	6° 6	26° 4	29°30	8°53	4°59	4°50	16°59	0°11	5°58	5° 9	18°20	23°19	T 12
F 13	9 32 9	24°28'00	15°26	7°40	27°18	0810	9° 1	5° 6	4°50	16°57	0°12	5°59	5° 6	18°26	23°23	F 13
S 14	9 36 6	25°28'29	28°53	9°14	28°31	0°49	9° 9	5°13	4°51	16°56	0°13	6° 0	5° 3	18°33	23°27	S 14
S 15	9 40 2	26°28'56	1295 6	10°49	29°44	1°29	9°18	5°20	4°51	16°54	0°13	6° 1	4°59	18°40	23°32	S 15
M16	9 43 59	27°29'21	25° 5	12°25	0 Υ 57	2° 8	9°26	5°27	4°51	16°53	0°14	6° 3	4°56	18°46	23°36	M16
T 17	9 47 56	28°29'45	7 Ω 51	14° 3	2°10	2°48	9°34	5°33	4°51	16°51	0°15	6°R 3	4°53	18°53	23°40	T 17
W18	9 51 52	29°30'06	20°26	15°41	3°23	3°28	9°43	5°40	4°52	16°50	0°16	6° 2	4°50	19° 0	23°44	W18
T 19	9 55 49	0) € 30′26	2 m 50	17°20	4°35	4° 7	9°52	5°47	4°52	16°48	0°16	6° 0	4°47	19° 7	23°48	T 19
F 20	9 59 45	1°30'44	15° 5	19° 0	5°48	4°47	10° 1	5°54	4°52	16°47	0°17	5°57	4°44	19°13	23°52	F 20
S 21	10 3 42	2°31'00	27°10	20°41	7° 1	5°26	10°10	6° 0	4°53	16°45	0°18	5°52	4°40	19°20	23°55	S 21
S 22	10 738	3°31'14	9 ي 9	22°23	8°13	6° 6	10°19	6° 7	4°53	16°43	0°19	5°47	4°37	19°27	23°59	S 22
M23	10 11 35	4°31'27	21° 3	24° 6	9°26	6°45	10°28	6°13	4°54	16°42	0°20	5°42	4°34	19°34	24° 3	M23
T 24	10 15 31	5°31'39	2 M .55	25°50	10°38	7°24	10°38	6°20	4°55	16°40	0°20	5°38	4°31	19°40	24° 6	T 24
W25	10 19 28	6°31'48	14°48	27°35	11°50	8° 4	10°47	6°27	4°55	16°38	0°21	5°35	4°28	19°47	24°10	W25
T 26	10 23 25	7°31'57	26°46	29°22	13° 3	8°43	10°57	6°33	4°56	16°37	0°22	5°32	4°24	19°54	24°13	T 26
F 27	10 27 21	8°32'03	8 ₹ 55	1 米 9	14°15	9°23	11° 7	6°40	4°57	16°35	0°23	5°D32	4°21	20° 0	24°16	F 27
S 28	10 31 18	9) €32'09	21 × 18	2) 57	15 ℃ 27	108 2	11 8 17	6≈46	4 Ⅱ 58	16 M 34	0 8 24	5 Ω 32	4Ω 18	20 ♀ 7	24 × ⁷ 20	S 28

Day	0	D	ğ	·	ď	4	ħ)∤(¥	Р	w v	Ç	ę,
	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	17 s 8		22 s34 0 s35	8s 3 1s18	9n 4 0n26	13n 9 0s59		21n 6 0s 4	6n 7 1n10		18n48 18n53	-	18s 4 5n13
M 2			22 29 0 42			13 11 0 59			6 8 1 10		18 47 18 53	2 16	
T 3		20 21 1 13				13 13 0 58			6 8 1 10		18 47 18 54	2 18	
W 4 T 5	16 16 15 57	18 42 0s 3 15 51 1 21	22 15 0 57 22 6 1 3			13 16 0 58 13 18 0 58	19 46 0 30 19 45 0 30		6 9 1 10		18 47 18 55 18 47 18 56	2 20 2 22	
F 6	15 37		21 55 1 10			13 21 0 57			6 10 1 10		18 48 18 57	2 22	
S 7	15 21		21 44 1 16				19 41 0 30		6 10 1 10		18 48 18 57	2 27	
S 8	15 2	2 18 4 30	21 31 1 21	1 4 29 1 4			19 40 0 30		6 11 1 10	3 51 16 25	18 48 18 58	2 29	-
M 9	14 43		21 16 1 27				19 38 0 31		6 12 1 10		18 49 18 59	2 32	
T 10	14 23	7 47 5 16	_				19 37 0 31		6 12 1 10			2 34	
W11 T 12	14 4 13 44		20 44 1 37 20 25 1 42				19 35 0 31 19 33 0 31		0 15 1 10			2 36 2 39	
F 13			20 23 1 42				19 33 0 31		6 14 1 10	3 49 16 23			18 1 5 19
S 14	-		19 45 1 50				19 30 0 31		6 15 1 10	3 48 16 23		2 43	
S 15	12 43	20 48 2 8	19 22 1 53	0 50 0 47	12 35 0 36	13 45 0 55	19 29 0 31		6 15 1 10	,		2 45	
M16		-	18 58 1 56				19 27 0 31					2 48	
T 17 W18	12 1		18 33 1 59				19 25 0 31 19 24 0 31		6 17 1 10	3 46 16 22 3 46 16 21			17 59 5 21 17 59 5 22
T 19	11 40 11 19						19 24 0 31		6 17 1 10 6 18 1 10	3 45 16 21			17 59 5 22 17 59 5 22
F 20	10 58						19 21 0 31		6 18 1 10				17 58 5 23
S 21	10 36		16 38 2 7	7 2 20 0 30			19 19 0 32						17 58 5 23
S 22	10 14	0 39 4 40	16 5 2 8	3 2 51 0 27	14 13 0 41	14 6 0 54	19 18 0 32	21 6 0 3	6 20 1 10	3 43 16 20	18 52 19 9	3 2	17 57 5 24
M23	9 52		15 32 2 8	3 23 0 24			19 16 0 32		6 20 1 10		18 53 19 10	-	17 57 5 25
T 24	9 30		14 56 2 8				19 15 0 32				18 54 19 10		17 57 5 25
W25 T 26	9 8						19 13 0 32		0 22 1 10		18 55 19 11	-	
F 27	8 46	14 45 4 51 17 32 4 21	13 42 2 7 13 2 2 5	7 4 56 0 15 5 5 27 0 11			19 11 0 32 19 10 0 32		6 22 1 10 6 23 1 10		18 55 19 12 18 56 19 13	-	17 56 5 26 17 55 5 27
S 28			12 s22 2 s 4		-		19 10 0 32 19s 8 0s32				18n55 19n13	-	17 s55 5n28
		-,			01110					22.5 10010	171110	- 510	

Julian Day Number = 2308766.5, Delta T = 77.69 sec

Ecliptic obliquity = 23°29'19, Nutation = -0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°17'04, Lahiri = 18°24'05Greg. Calendar

MARCH 1609 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	♂	4	ħ)∤(¥	Р	n	Ω	Ç	ķ	Day
S 1	10 35 14	10) 32'12	4る 0	4)(47	16 Y 39	10842	11827	6≈52	4 Ⅱ 59	16°R32	0 8 25	5 Ω 34	4 Ω 15	20₽14	24 × ⁷ 23	S 1
M 2	10 39 11	11°32'14	17° 5	6°38	17°51	11°21	11°37	6°59	5° 0	16 m 30	0°26	5°35	4°12	20°21	24°26	M 2
T 3	10 43 7	12°32'14	0≈37	8°29	19° 3	12° 0	11°47	7° 5	5° 1	16°29	0°27	5°R36	4° 9	20°27	24°29	T 3
W 4	10 47 4	13°32'13	14°35	10°22	20°15	12°40	11°58	7°11	5° 2	16°27	0°28	5°36	4° 5	20°34	24°32	W 4
T 5	10 51 0	14°32'09	29° 0	12°16	21°26	13°19	12° 8	7°17	5° 3	16°25	0°29	5°34	4° 2	20°41	24°34	T 5
F 6	10 54 57	15°32'04	13) (46	14°11	22°38	13°59	12°19	7°24	5° 4	16°24	0°30	5°30	3°59	20°47	24°37	F 6
S 7	10 58 54	16°31'57	28°46	16° 7	23°49	14°38	12°29	7°30	5° 5	16°22	0°31	5°25	3°56	20°54	24°40	S 7
S 8	11 2 50	17°31'48	13 Y 50	18° 3	25° 1	15°17	12°40	7°36	5° 7	16°20	0°32	5°18	3°53	21° 1	24°42	S 8
M 9	11 6 47	18°31'36	28°51	20° 1	26°12	15°57	12°51	7°42	5°8	16°19	0°33	5°12	3°50	21° 8	24°45	M 9
T 10	11 10 43	19°31'23	13 8 37	21°59	27°23	16°36	13° 2	7°48	5° 9	16°17	0°34	5° 6	3°46	21°14	24°47	T 10
W11	11 14 40	20°31'07	28° 4	23°58	28°34	17°15	13°13	7°54	5°11	16°15	0°35	5° 2	3°43	21°21	24°49	W11
T 12	11 18 36	21°30'49	12 II 9	25°58	29°45	17°55	13°24	7°59	5°12	16°14	0°36	5° 0	3°40	21°28	24°52	T 12
F 13	11 22 33	22°30'29	25°49	27°58	0 8 56	18°34	13°36	8° 5	5°14	16°12	0°37	5°D 0	3°37	21°34	24°54	F 13
S 14	11 26 29	23°30'06	995 7	29°58	2° 7	19°13	13°47	8°11	5°15	16°10	0°38	5° 1	3°34	21°41	24°56	S 14
S 15	11 30 26	24°29'41	22° 6	1 Y 58	3°18	19°52	13°58	8°17	5°17	16° 9	0°39	5° 2	3°30	21°48	24°57	S 15
M16	11 34 23	25°29'14	4 Ω 48	3°58	4°28	20°32	14°10	8°22	5°19	16° 7	0°41	5°R 2	3°27	21°55	24°59	M16
T 17	11 38 19	26°28'44	17°17	5°58	5°39	21°11	14°22	8°28	5°20	16° 5	0°42	5° 2	3°24	22° 1	25° 1	T 17
W18	11 42 16	27°28'12	29°35	7°56	6°49	21°50	14°33	8°33	5°22	16° 4	0°43	4°59	3°21	22° 8	25° 3	W18
T 19	11 46 12	28°27'38	11 M 45	9°53	7°59	22°29	14°45	8°39	5°24	16° 2	0°44	4°53	3°18	22°15	25° 4	T 19
F 20	11 50 9	29°27'02	23°49	11°48	9° 9	23° 9	14°57	8°44	5°26	16° 0	0°45	4°45	3°15	22°21	25° 6	F 20
S 21	11 54 5	0 Υ 26'24	5 ≏ 47	13°42	10°19	23°48	15° 9	8°49	5°28	15°59	0°47	4°35	3°11	22°28	25° 7	S 21
S 22	11 58 2	1°25'44	17°42	15°33	11°29	24°27	15°21	8°55	5°29	15°57	0°48	4°24	3° 8	22°35	25° 8	S 22
M23	12 1 58	2°25'01	29°35	17°21	12°39	25° 6	15°33	9° 0	5°31	15°56	0°49	4°13	3° 5	22°42	25° 9	M23
T 24	12 5 55	3°24'17	11 M 27	19° 6	13°48	25°45	15°45	9° 5	5°33	15°54	0°50	4° 3	3° 2	22°48	25°10	T 24
W25	12 9 51	4°23'31	23°21	20°47	14°58	26°24	15°57	9°10	5°36	15°52	0°51	3°54	2°59	22°55	25°11	W25
T 26	12 13 48	5°22'43	5 ₹ 20	22°24	16° 7	27° 3	16°10	9°15	5°38	15°51	0°53	3°47	2°55	23° 2	25°12	T 26
F 27	12 17 45	6°21'53	17°28	23°57	17°16	27°42	16°22	9°20	5°40	15°49	0°54	3°43	2°52	23° 9	25°13	F 27
S 28	12 21 41	7°21'02	29°48	25°25	18°25	28°21	16°34	9°25	5°42	15°48	0°55	3°41	2°49	23°15	25°14	S 28
S 29	12 25 38	8°20'09	12 る 25	26°48	19°34	29° 0	16°47	9°30	5°44	15°46	0°56	3°D41	2°46	23°22	25°14	S 29
M30	12 29 34	9°19'14	25°24	28° 6	20°42	29°39	16°59	9°35	5°46	15°45	0°58	3°41	2°43	23°29	25°15	M30
T 31	12 33 31	10 Υ 18'17	8≈48	29 Υ 18	21851	0 Ⅱ 18	17812	9 ≈ 39	5 Ⅱ 49	15 Mp 43	0 8 59	3°R41	$2\Omega 40$	23 ≏ 35	25 ₹ 15	T 31

Day	0	D	ğ	φ .	3"	4	ħ)Å(卉	Р	v v	Ç	ķ
	decl	decl lat	decl lat	decl lat decl	lat de	ecl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
S 1 M 2			11 s39 2 s 10 56 1 59					21n 7 0s 3 21 7 0 3	6n24 1n10 6 25 1 10		18n55 19n14 18 55 19 15		17 s54 5 n28 17 54 5 29
T 3 W 4		19 37 0 27 17 16 0s49	10 11 1 55 9 25 1 5						6 26 1 10 6 26 1 10		18 54 19 16 18 55 19 16		17 53 5 29 17 53 5 30
T 5 F 6	5 43	13 47 2 4 9 21 3 12		2 9 1 0 13 16 50	0 48 14	45 0 51	18 59 0 33	21 8 0 3	6 27 1 10 6 28 1 10	3 37 16 17	18 55 19 17 18 56 19 18	3 29	17 52 5 31 17 52 5 31
S 7 S 8	5 20 4 56	4 17 4 8 1n 3 4 48					18 58 0 33 18 57 0 33		6 28 1 10 6 29 1 10		18 57 19 19 18 59 19 19		17 51 5 32 17 51 5 33
M 9 T 10	4 33 4 9	6 18 5 7 11 6 5 5	5 15 1 24	4 10 30 0 23 17 26	0 50 14	56 0 50	18 55 0 33 18 54 0 33	21 9 0 3	6 30 1 10 6 30 1 10	3 35 16 16 3 34 16 16	19 0 19 20	3 36	17 50 5 33 17 49 5 34
W11 T 12	-	15 9 4 44	3 27 1 9	9 11 28 0 30 17 50 1 11 56 0 34 18			18 52 0 33	21 9 0 3	6 31 1 10 6 32 1 10	3 34 16 16 3 33 16 15	19 3 19 22	3 41	17 49 5 35 17 48 5 35
F 13 S 14		20 10 3 16 20 56 2 15		2 12 25 0 38 18 13 3 12 53 0 41 18 24				21 10 0 3 21 10 0 3	6 32 1 10 6 33 1 10	3 33 16 15 3 32 16 15			17 48 5 36 17 47 5 37
S 15 M16	2 11 1 48	20 32 1 9	0n17 0 33	3 13 21 0 45 18 33 3 13 48 0 49 18 40				21 11 0 3	6 34 1 10 6 34 1 10	3 31 16 15 3 31 16 15			17 47 5 37 17 46 5 38
T 17 W18		16 43 1n 5 13 38 2 8	2 11 0 12		0 53 15	24 0 49	18 44 0 34	21 11 0 3	6 35 1 10 6 35 1 10	3 30 16 14 3 30 16 14	19 3 19 26	3 55	17 45 5 39 17 45 5 39
T 19 F 20	0 37 0 13	10 0 3 4 5 59 3 51	4 5 0n10 5 1 0 22						6 36 1 10 6 37 1 10	3 29 16 14 3 29 16 14			17 44 5 40 17 44 5 41
S 21 S 22	0n11 0 34	1 47 4 27 2 s 28 4 51	5 56 0 34 6 51 0 46	4 16 0 1 7 19 39 6 16 26 1 11 19 49				21 13 0 3 21 13 0 3	6 37 1 10 6 38 1 10	3 28 16 14	19 9 19 29 19 12 19 30		17 43 5 41 17 42 5 42
M23 T 24	0 58	6 37 5 3 10 31 5 1		8 16 51 1 15 19 59	0 56 15	46 0 48	18 36 0 35	21 13 0 3	6 39 1 10 6 39 1 10	3 27 16 13	19 15 19 31 19 17 19 31	4 9	17 42 5 43 17 41 5 43
W25 T 26		14 1 4 47 16 59 4 20						21 14 0 3 21 14 0 3	6 40 1 10 6 40 1 10		19 19 19 32 19 21 19 33	-	17 40 5 44 17 40 5 45
F 27 S 28	-		10 57 1 45 11 39 1 50	5 18 27 1 29 20 37 6 18 50 1 33 20 46				21 15 0 3 21 15 0 3	6 41 1 10 6 42 1 10		19 22 19 33 19 22 19 34		17 39 5 45 17 38 5 46
S 29 M30	3 19 3 42		12 19 2 3 12 57 2 13					21 16 0 3 21 16 0 3	6 42 1 10 6 43 1 10		19 22 19 35 19 22 19 36	-	17 38 5 47 17 37 5 47
T 31	4n 5	18 s 32 0 s 27	13n31 2n20	6 19n56 1n43 21n13	0n59 16r	n16 0s46	18 s27 0 s36	21n16 0s 3	6n43 1n10	3 s22 16 s12	19n22 19n36	4 s27	17 s 37 5 n 48

Julian Day Number = 2308794.5, Delta T = 77.60 sec Ecliptic obliquity = $23^{\circ}29'20$, Nutation = - $0^{\circ}00'13$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'08$, Lahiri = $18^{\circ}24'08$ Greg. Calendar

APRIL 1609 GC 00:00 UT

AI IX	L IUU.	uc													00.0	0.
Day	Sid.t	0	D	ğ	φ	♂	4	ħ)ұ(并	В	S.	v	Ç	ę,	Day
W 1	12 37 27	11 Y 17'18	22≈42	0 8 24	22 8 59	0Д57	17825	9≈44	5 Ⅱ 51	15°R42	1 8 0	3°R40	2 N 36	23 <u>₽</u> 42	25 х 15	W 1
T 2	12 41 24	12°16'18	7) 4	1°24	24° 8	1°36	17°38	9°48	5°53	15 m 40	1° 2	3 Ω 36	2°33	23°49	25°16	T 2
F 3	12 45 20	13°15'16	21°52	2°18	25°16	2°15	17°50	9°53	5°56	15°39	1° 3	3°30	2°30	23°56	25°16	F 3
S 4	12 49 17	14°14'11	7 Υ 0	3° 6	26°24	2°54	18° 3	9°57	5°58	15°38	1° 4	3°21	2°27	24° 2	25°R16	S 4
S 5	12 53 14	15°13'05	22°19	3°48	27°32	3°33	18°16	10° 1	6° 1	15°36	1° 6	3°11	2°24	24° 9	25°16	S 5
M 6	12 57 10	16°11'57	7 8 36	4°23	28°39	4°12	18°29	10° 6	6° 3	15°35	1° 7	3° 0	2°21	24°16	25°16	M 6
T 7	13 1 7	17°10'46	22°40	4°51	29°47	4°51	18°42	10°10	6° 6	15°33	1° 8	2°51	2°17	24°22	25°15	T 7
W 8	13 5 3	18° 9'34	7∏24	5°13	0∏54	5°30	18°55	10°14	6° 9	15°32	1°10	2°43	2°14	24°29	25°15	W 8
T 9	13 9 0	19° 8'19	21°40	5°29	2° 1	6° 9	19°8	10°18	6°11	15°31	1°11	2°38	2°11	24°36	25°15	T 9
F 10	13 12 56	20° 7'02	59	5°38	3° 8	6°48	19°22	10°22	6°14	15°29	1°12	2°36	2° 8	24°43	25°14	F 10
S 11	13 16 53	21° 5'43	18°49	5°R41	4°14	7°27	19°35	10°26	6°17	15°28	1°14	2°D35	2° 5	24°49	25°13	S 11
S 12	13 20 49	22° 4'21	1 Ω 46	5°38	5°21	8° 5	19°48	10°29	6°19	15°27	1°15	2°R35	2° 1	24°56	25°13	S 12
M13	13 24 46	23° 2'58	14°22	5°29	6°27	8°44	20° 2	10°33	6°22	15°26	1°16	2°35	1°58	25° 3	25°12	M13
T 14	13 28 43	24° 1'32	26°42	5°15	7°33	9°23	20°15	10°36	6°25	15°24	1°18	2°33	1°55	25°10	25°11	T 14
W15	13 32 39	25° 0'03	8 m 51	4°55	8°39	10° 2	20°28	10°40	6°28	15°23	1°19	2°29	1°52	25°16	25°10	W15
T 16	13 36 36	25°58'33	20°52	4°31	9°45	10°40	20°42	10°43	6°31	15°22	1°21	2°21	1°49	25°23	25° 9	T 16
F 17	13 40 32	26°57'01	2 ≏ 48	4° 2	10°50	11°19	20°55	10°47	6°33	15°21	1°22	2°11	1°46	25°30	25° 8	F 17
S 18	13 44 29	27°55'26	14°41	3°30	11°55	11°58	21° 9	10°50	6°36	15°20	1°23	1°59	1°42	25°36	25° 7	S 18
S 19	13 48 25	28°53'50	26°34	2°55	13° 0	12°37	21°22	10°53	6°39	15°18	1°25	1°45	1°39	25°43	25° 5	S 19
M20	13 52 22	29°52'12	8 M 27	2°18	14° 5	13°15	21°36	10°56	6°42	15°17	1°26	1°31	1°36	25°50	25° 4	M20
T 21	13 56 18	0 8 50'32	20°22	1°39	15° 9	13°54	21°49	10°59	6°45	15°16	1°27	1°17	1°33	25°57	25° 2	T 21
W22	14 0 15	1°48'50	2 ~ 20	0°59	16°13	14°33	22° 3	11° 2	6°48	15°15	1°29	1° 6	1°30	26° 3	25° 1	W22
T 23	14 4 12	2°47'07	14°24	0°19	17°17	15°11	22°17	11° 5	6°51	15°14	1°30	0°56	1°26	26°10	24°59	T 23
F 24	14 8 8	3°45'22	26°36	29 Υ 40	18°21	15°50	22°31	11°8	6°54	15°13	1°31	0°50	1°23	26°17	24°57	F 24
S 25	14 12 5	4°43'35	8 궁 58	29° 2	19°24	16°28	22°44	11°10	6°58	15°12	1°33	0°47	1°20	26°23	24°56	S 25
S 26	14 16 1	5°41'47	21°35	28°26	20°27	17° 7	22°58	11°13	7° 1	15°11	1°34	0°46	1°17	26°30	24°54	S 26
M27	14 19 58	6°39'58	4≈31	27°52	21°30	17°46	23°12	11°15	7° 4	15°10	1°36	0°45	1°14	26°37	24°52	M27
T 28	14 23 54	7°38'07	17°50	27°21	22°32	18°24	23°26	11°17	7° 7	15°10	1°37	0°45	1°11	26°44	24°50	T 28
W29	14 27 51	8°36'14	1) 34	26°54	23°35	19° 3	23°40	11°20	7°10	15° 9	1°38	0°44	1° 7	26°50	24°47	W29
T 30	14 31 47	9 8 34'20	15) 46	26 Y 31	24∏36	19 ∏ 41	23 8 53	11≈22	7 Ⅱ 13	15Mm 8	1840	$0\Omega 40$	1 Ω 4	26 ≏ 57	24 × 145	T 30

Day	0	D	ğ	Q	♂	4	ħ)Å(卉	Р	w v	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
W 1 T 2 F 3	4n28 4 52 5 15	11 31 2 47	14 31 2 4	4 20n17 1n47 2 20 38 1 50 9 20 58 1 54	21 30 1 0		18 24 0 36	21n17 0s 3 21 17 0 3 21 18 0 3	6n44 1n10 6 44 1 10 6 45 1 10	3 21 16 12	19n22 19n37 19 23 19 38 19 25 19 39	4 32	17 s 36 5 n 49 17 35 5 49 17 35 5 50
S 4 S 5 M 6	5 38 6 0 6 23		15 37 2 5		21 46 1 0 21 54 1 1 22 2 1 1	16 31 0 46 16 34 0 46 16 38 0 46	18 21 0 36	21 18 0 3 21 19 0 3 21 19 0 3	6 46 1 10 6 46 1 10 6 47 1 10	3 20 16 11	19 27 19 39 19 29 19 40 19 32 19 41	4 39	17 34 5 51 17 33 5 51 17 33 5 52
T 7 W 8 T 9 F 10	6 46 7 8 7 31 7 53	17 30 4 9 19 55 3 19	16 12 3 16 17 3	6 22 30 2 10 6 22 47 2 14			18 18 0 37 18 17 0 37	21 20 0 3 21 20 0 3	6 47 1 10 6 48 1 10 6 48 1 10 6 49 1 10	3 18 16 11 3 17 16 11	19 34 19 41 19 35 19 42 19 37 19 43 19 37 19 44	4 46 4 48	17 32 5 53 17 31 5 53 17 31 5 54 17 30 5 54
S 11 S 12 M13	8 15	20 58 1 12 19 44 0 4	16 17 3 16 12 2 5	1 23 20 2 20 7 23 35 2 23	22 37 1 2	16 57 0 45 17 0 0 45	18 15 0 37 18 15 0 37	21 21 0 3 21 22 0 3	6 49 1 10 6 49 1 10 6 50 1 10 6 50 1 10	3 16 16 11 3 16 16 11	19 37 19 44 19 37 19 45 19 37 19 46	4 53	17 29 5 55 17 29 5 56
T 14 W15 T 16	9 20 9 42 10 3	14 35 2 4 11 2 2 59	15 52 2 4 15 37 2 3	4 24 4 2 29 5 24 17 2 32	22 57 1 3 22 57 1 3 23 3 1 3 23 9 1 4	17 8 0 44 17 11 0 44	18 13 0 38 18 12 0 38	21 23 0 3	6 50 1 10 6 51 1 10 6 51 1 10 6 51 1 10	3 15 16 11 3 14 16 11	19 37 19 46 19 38 19 46 19 39 19 47 19 41 19 48	5 0 5 2	17 27 5 57
F 17 S 18 S 19	10 24 10 45 11 6	1 s24 4 46		4 24 42 2 37 2 24 54 2 40 8 25 5 2 42	23 20 1 4		18 10 0 38	21 24 0 3 21 25 0 3 21 25 0 3	6 52 1 10 6 52 1 10 6 53 1 10	3 13 16 10	19 43 19 49 19 46 19 49 19 49 19 50	5 9	17 25 5 59 17 25 6 0 17 24 6 0
M20 T 21 W22	11 27 11 47 12 8	9 39 4 57 13 19 4 43	13 45 1 3: 13 17 1 1:	3 25 16 2 44 8 25 25 2 47	23 30 1 5 23 35 1 5	17 30 0 44 17 33 0 44 17 37 0 43	18 8 0 38 18 8 0 38	21 26 0 3 21 26 0 3	6 53 1 10 6 54 1 10 6 54 1 10	3 12 16 10 3 11 16 10	19 52 19 51 19 55 19 51 19 57 19 52	5 14 5 16	17 23 6 1 17 23 6 1 17 22 6 2
T 23 F 24 S 25	12 48	20 37 2 50	11 49 0 2	5 25 43 2 51 8 25 51 2 53 1 25 59 2 55	23 49 1 6	17 41 0 43 17 44 0 43 17 48 0 43	18 6 0 39	21 28 0 3	6 54 1 10 6 55 1 10 6 55 1 10	3 11 16 10 3 10 16 10 3 10 16 10			17 21 6 3 17 21 6 3 17 20 6 4
S 26 M27 T 28 W29 T 30	-	19 30 0s20 16 56 1 29 13 21 2 35		3 26 12 2 59 0 26 17 3 1 6 26 22 3 2	24 1 1 6 24 5 1 6 24 9 1 7	17 59 0 43 18 2 0 43	18 4 0 39 18 3 0 39 18 3 0 40	21 29 0 3	6 55 1 10 6 56 1 10 6 56 1 10 6 56 1 10 6 57 1n10	3 9 16 10 3 9 16 10 3 8 16 10 3 8 16 10 3 8 7 16 10	20 2 19 56 20 2 19 56	5 30 5 32 5 35	17 19 6 4 17 19 6 5 17 18 6 6 17 17 6 6 17 s17 6n 7

Julian Day Number = 2308825.5, Delta T = 77.50 sec Ecliptic obliquity = 23°29'20, Nutation = -0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'12$, Lahiri = $18^{\circ}24'13$ Greg. Calendar

MAY 1609 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(¥	Р	S.	v	Ç	Ŷ,	Day
F 1	14 35 44	10832'25	0Υ25	26°R12	25 II 38	20耳20	24 8 7	11≈24	7 I 17	15°R 7	1841	0°R34	1 Ω 1	27 <u>₽</u> 4	24°R43	F 1
S 2	14 39 40	11°30'28	15°25	25 ℃ 57	26°39	20°58	24°21	11°26	7°20	15Mp 6	1°42	$0\Omega 25$	0°58	27°11	24 × 741	S 2
S 3	14 43 37	12°28'30	0 8 38	25°46	27°40	21°37	24°35	11°28	7°23	15° 6	1°44	0°15	0°55	27°17	24°38	S 3
M 4	14 47 34	13°26'30	15°55	25°40	28°41	22°15	24°49	11°30	7°26	15° 5	1°45	0° 5	0°52	27°24	24°36	M 4
T 5	14 51 30	14°24'29	1 I I 4	25°D39	29°41	22°54	25° 3	11°31	7°30	15° 4	1°46	29955	0°48	27°31	24°33	T 5
W 6	14 55 27	15°22'26	15°55	25°43	09541	23°32	25°17	11°33	7°33	15° 4	1°48	29°47	0°45	27°37	24°30	W 6
T 7	14 59 23	16°20'21	0ණ20	25°51	1°40	24°11	25°31	11°34	7°36	15° 3	1°49	29°41	0°42	27°44	24°28	T 7
F 8	15 3 20	17°18'15	14°17	26° 3	2°39	24°49	25°45	11°36	7°40	15° 2	1°51	29°39	0°39	27°51	24°25	F 8
S 9	15 7 16	18°16'07	27°44	26°21	3°37	25°28	25°59	11°37	7°43	15° 2	1°52	29°D38	0°36	27°58	24°22	S 9
S 10	15 11 13	19°13'57	10 Ω 45	26°42	4°36	26° 6	26°13	11°38	7°47	15° 1	1°53	29°38	0°32	28° 4	24°19	S 10
M11	15 15 10	20°11'45	23°23	27° 8	5°33	26°44	26°27	11°39	7°50	15° 1	1°54	29°R38	0°29	28°11	24°16	M11
T 12	15 19 6	21° 9'32	5 m 43	27°38	6°30	27°23	26°41	11°40	7°53	15° 0	1°56	29°37	0°26	28°18	24°13	T 12
W13	15 23 3	22° 7'17	17°49	28°12	7°27	28° 1	26°55	11°41	7°57	15° 0	1°57	29°34	0°23	28°25	24°10	W13
T 14	15 26 59	23° 5'00	29°47	28°50	8°23	28°39	27° 9	11°42	8° 0	14°59	1°58	29°29	0°20	28°31	24° 7	T 14
F 15	15 30 56	24° 2'41	11 ≏ 40	29°32	9°19	29°18	27°23	11°43	8° 4	14°59	2° 0	29°21	0°17	28°38	24° 3	F 15
S 16	15 34 52	25° 0'21	23°32	0818	10°14	29°56	27°37	11°44	8° 7	14°59	2° 1	29°11	0°13	28°45	24° 0	S 16
S 17	15 38 49	25°58'00	5 M 25	1° 7	11° 9	0934	27°51	11°44	8°11	14°58	2° 2	28°59	0°10	28°51	23°57	S 17
M18	15 42 45	26°55'37	17°20	2° 0	12° 3	1°13	28° 5	11°45	8°14	14°58	2° 4	28°48	0° 7	28°58	23°53	M18
T 19	15 46 42	27°53'14	29°21	2°56	12°57	1°51	28°19	11°45	8°18	14°58	2° 5	28°37	0° 4	29° 5	23°50	T 19
W20	15 50 38	28°50'48	11 × 28	3°55	13°49	2°29	28°34	11°45	8°21	14°58	2° 6	28°27	0° 1	29°12	23°47	W20
T 21	15 54 35	29°48'22	23°41	4°57	14°42	3° 7	28°48	11°45	8°25	14°57	2° 7	28°20	29958	29°18	23°43	T 21
F 22	15 58 32	0 Ⅱ 45'55	6ਰ 4	6° 3	15°33	3°46	29° 2	11°R45	8°28	14°57	2° 9	28°15	29°54	29°25	23°39	F 22
S 23	16 2 28	1°43'27	18°37	7°12	16°24	4°24	29°16	11°45	8°32	14°57	2°10	28°13	29°51	29°32	23°36	S 23
S 24	16 6 25	2°40'57	1≈23	8°23	17°15	5° 2	29°30	11°45	8°35	14°57	2°11	28°D12	29°48	29°38	23°32	S 24
M25	16 10 21	3°38'27	14°24	9°38	18° 4	5°40	29°44	11°45	8°39	14°57	2°12	28°13	29°45	29°45	23°28	M25
T 26	16 14 18	4°35'57	27°44	10°55	18°53	6°19	29°58	11°44	8°42	14°D57	2°13	28°14	29°42	29°52	23°25	T 26
W27	16 18 14	5°33'25	11 米 24	12°15	19°41	6°57	0 Ⅱ 12	11°44	8°46	14°57	2°15	28°R14	29°38	29°59	23°21	W27
T 28	16 22 11	6°30'52	25°27	13°38	20°28	7°35	0°26	11°43	8°49	14°57	2°16	28°12	29°35	0 M 5	23°17	T 28
F 29	16 26 7	7°28'19	9 Ƴ 51	15° 4	21°14	8°13	0°40	11°43	8°53	14°57	2°17	28° 9	29°32	0°12	23°13	F 29
S 30	16 30 4	8°25'45	24°33	16°32	22° 0	8°51	0°54	11°42	8°57	14°57	2°18	28° 4	29°29	0°19	23° 9	S 30
S 31	16 34 1	9 Ⅲ 23'11	9829	18 8 3	22945	9929	1 I 8	11 ≈ 41	9 I I 0	14 M 57	2819	27957	295226	0 M .26	23 ∡ 6	S 31

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S 3 M 4 T 5 W 6 T 7	-			9 26 39 3 9 24 0 26 39 3 10 24	23 1 2 25 1 2 28 1		2 18 1 0 40 2 18 1 0 40 2 18 0 0 41	21 34 0 3 21 34 0 3	6 57 1 10 6 58 1 10 6 58 1 10 6 58 1 10 6 58 1 10	3 6 16 10 3 5 16 10 3 5 16 11	20 8 20 0 20 11 20 0 20 13 20 1 20 14 20 2 20 15 20 3	5 46 5 49 5 51	17 15 6 8 17 14 6 9 17 13 6 9 17 13 6 10 17 12 6 10
F 8 S 9	17 2	21 1 2 29 21 23 1 21 20 30 0 10	7 28 2 4		31 1	3 18 34 0 4 3 18 37 0 4	2 18 0 0 41	21 36 0 3	6 59 1 10	3 4 16 11	20 16 20 3 20 16 20 4	5 56	17 12 6 10 17 12 6 11 17 11 6 12
S 10 M11 T 12 W13 T 14 F 15 S 16	17 34 17 50 18 5 18 20 18 35 18 49 19 3	18 31 0n59 15 41 2 3 12 13 2 59 8 18 3 47 4 7 4 24 0s12 4 49 4 29 5 1	7 31 3 1 7 37 3 1 7 46 3 1 7 56 3 2	5 26 31 3 11 24 9 26 28 3 11 24 2 26 24 3 11 24 5 26 19 3 10 24	36 1 9 37 1 9 37 1 9 38 1 9 38 1 9		1 17 59 0 41 1 17 59 0 42 1 17 59 0 42 1 17 59 0 42 1 17 59 0 42 1 17 59 0 42	21 38 0 2 21 38 0 2	6 59 1 10 6 59 1 10 6 59 1 10 7 0 1 10 7 0 1 10	3 3 16 11 3 3 16 11 3 3 16 11 3 2 16 11 3 2 16 11	20 16 20 5 20 16 20 5 20 16 20 6 20 17 20 7 20 18 20 7 20 20 20 8 20 22 20 9	6 3 6 5 6 7	17 7 6 14
S 17 M18 T 19 W20 T 21 F 22 S 23	19 44 19 57		9 17 3 2 9 38 3 2 10 1 3 2 10 25 3 2	7 26 3 3 7 24 7 25 57 3 6 24 5 25 50 3 4 24 3 25 42 3 3 24	39 1 10 38 1 10 38 1 10 37 1 10 36 1 10		1 17 59 0 42 1 17 59 0 43 1 17 59 0 43 1 17 59 0 43 1 17 59 0 43		7 0 1 9 7 0 1 9	3 1 16 12 3 1 16 12 3 0 16 12 3 0 16 12 3 0 16 12	20 24 20 9 20 27 20 10 20 29 20 11 20 31 20 11 20 32 20 12 20 33 20 13 20 34 20 13	6 17 6 19 6 21 6 24 6 26 6 28 6 31	17 6 6 16 17 5 6 16 17 5 6 16 17 4 6 17 17 3 6 17
W27 T 28 F 29 S 30		17 55 1 26 14 39 2 32 10 33 3 31 5 46 4 19 0 34 4 52 4n47 5 6	11 46 3 12 15 3 12 45 2 5 13 16 2 4 13 48 2 4 14 21 2 3	2 25 18 2 57 24 7 25 9 2 54 24 2 24 59 2 51 24 6 24 49 2 49 24 9 24 39 2 45 24 2 24 28 2 42 24 5 24 18 2 38 24 7 24n 6 2n35 24	32	19 44 0 4	0 18 0 0 43 0 18 0 0 44 0 18 0 0 44 0 18 1 0 44 0 18 1 0 44 0 18 1 0 44	21 46 0 2 21 46 0 2	7 0 1 9 7 0 1 9	2 59 16 13 2 59 16 13 2 59 16 13 2 58 16 13 2 58 16 13 2 58 16 13	20 34 20 14 20 34 20 15 20 33 20 15 20 33 20 16 20 34 20 17 20 36 20 18 20n37 20n19		17 2 6 18 17 1 6 19 17 1 6 19 17 0 6 19

Julian Day Number = 2308855.5, Delta T = 77.41 sec Ecliptic obliquity = 23°29'20, Nutation = -0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°17'16, Lahiri = 18°24'17Greg. Calendar

JUNE 1609 GC 00:00 UT

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M 1	16 37 57	10П20'36	24 8 30	19 8 37	239528	1095 8	1П22	11°R40	9 I I 4	14 m 57	2820	27°R50	299523	0 M .32	23°R 2	M 1
T 2	16 41 54	11°18'00	9Ⅱ26	21°13	24°11	10°46	1°36	11 ≈ 39	9° 7	14°58	2°21	279543	29°19	0°39	22 ~ 58	T 2
W 3	16 45 50	12°15'23	24° 9	22°52	24°53	11°24	1°50	11°38	9°11	14°58	2°23	27°38	29°16	0°46	22°54	W 3
T 4	16 49 47	13°12'46	8932	24°34	25°34	12° 2	2° 4	11°37	9°14	14°58	2°24	27°34	29°13	0°52	22°50	T 4
F 5	16 53 43	14°10'08	22°30	26°18	26°14	12°40	2°17	11°36	9°18	14°58	2°25	27°D33	29°10	0°59	22°46	F 5
S 6	16 57 40	15° 7'28	6 N 1	28° 5	26°52	13°18	2°31	11°34	9°21	14°59	2°26	27°33	29° 7	1° 6	22°42	S 6
S 7	17 1 37	16° 4'48	19° 6	29°55	27°29	13°56	2°45	11°33	9°25	14°59	2°27	27°34	29° 4	1°13	22°38	S 7
M 8	17 5 33	17° 2'06	1 M 48	1 Ⅱ 46	28° 6	14°34	2°59	11°31	9°28	14°59	2°28	27°36	29° 0	1°19	22°34	M 8
T 9	17 9 30	17°59'24	14°11	3°41	28°41	15°13	3°13	11°30	9°32	15° 0	2°29	27°R36	28°57	1°26	22°30	T 9
W10	17 13 26	18°56'41	26°19	5°38	29°14	15°51	3°27	11°28	9°35	15° 0	2°30	27°36	28°54	1°33	22°26	W10
T 11	17 17 23	19°53'57	8 ≏ 18	7°37	29°46	16°29	3°40	11°26	9°39	15° 1	2°31	27°34	28°51	1°40	22°22	T 11
F 12	17 21 19	20°51'12	20°11	9°38	$0\Omega 17$	17° 7	3°54	11°24	9°42	15° 1	2°32	27°31	28°48	1°46	22°17	F 12
S 13	17 25 16	21°48'26	2 M , 4	11°41	0°47	17°45	4° 8	11°22	9°46	15° 2	2°33	27°26	28°44	1°53	22°13	S 13
S 14	17 29 12	22°45'40	13°59	13°46	1°15	18°23	4°21	11°20	9°49	15° 3	2°34	27°21	28°41	2° 0	22° 9	S 14
M15	17 33 9	23°42'53	25°59	15°53	1°41	19° 1	4°35	11°18	9°53	15° 3	2°35	27°15	28°38	2° 6	22° 5	M15
T 16	17 37 6	24°40'06	8 × ⁷ 6	18° 1	2° 5	19°39	4°49	11°15	9°56	15° 4	2°36	27° 9	28°35	2°13	22° 1	T 16
W17	17 41 2	25°37'18	20°24	20°10	2°28	20°17	5° 2	11°13	10° 0	15° 4	2°37	27° 4	28°32	2°20	21°57	W17
T 18	17 44 59	26°34'30	2 ප් 51	22°20	2°50	20°55	5°16	11°11	10° 3	15° 5	2°37	27° 1	28°29	2°27	21°53	T 18
F 19	17 48 55	27°31'41	15°30	24°31	3° 9	21°33	5°29	11° 8	10° 7	15° 6	2°38	26°59	28°25	2°33	21°49	F 19
S 20	17 52 52	28°28'53	28°21	26°42	3°26	22°11	5°43	11° 5	10°10	15° 7	2°39	26°D59	28°22	2°40	21°45	S 20
S 21	17 56 48	29°26'04	11≈24	28°53	3°42	22°49	5°56	11° 3	10°13	15° 8	2°40	26°59	28°19	2°47	21°41	S 21
M22	18 0 45	09523'15	24°41	195 4	3°56	23°27	6° 9	11° 0	10°17	15° 8	2°41	27° 1	28°16	2°53	21°37	M22
T 23	18 441	1°20'26	8 ∺ 12	3°15	4° 7	24° 5	6°23	10°57	10°20	15° 9	2°42	27° 2	28°13	3° 0	21°33	T 23
W24	18 8 38	2°17'37	21°58	5°25	4°17	24°43	6°36	10°54	10°24	15°10	2°42	27° 3	28°10	3° 7	21°29	W24
T 25	18 12 35	3°14'48	5 Υ 58	7°34	4°24	25°21	6°49	10°51	10°27	15°11	2°43	27°R 3	28° 6	3°14	21°25	T 25
F 26	18 16 31	4°11'59	20°12	9°41	4°29	25°59	7° 2	10°48	10°30	15°12	2°44	27° 3	28° 3	3°20	21°21	F 26
S 27	18 20 28	5° 9'11	4 8 38	11°48	4°32	26°37	7°16	10°45	10°34	15°13	2°45	27° 1	28° 0	3°27	21°17	S 27
S 28	18 24 24	6° 6'23	19°11	13°53	4°R33	27°15	7°29	10°42	10°37	15°14	2°45	26°59	27°57	3°34	21°14	S 28
M29	18 28 21	7° 3'35	3 Ⅱ 46	15°57	4°31	27°53	7°42	10°39	10°40	15°15	2°46	26°56	27°54	3°41	21°10	M29
T 30	18 32 17	895 0'48	18 Ⅱ 18	179558	$4\Omega 27$	28931	7 Ⅱ 55	10≈35	10 Ⅱ 43	15 Mp 16	2 8 47	26954	27950	3 M .47	21 🗷 6	T 30

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T 4 F 5 S 6	22 26 22 33	21 32 1 41 21 9 0 27	17 10	1 50 23 19 1 40 23 6 1 29 22 54	2 17 24 7 2 12 24 4 2 6 24 0	1 11 1 11	19 58 20 1	0 40 0 40 0 40 0 39	18 3 18 4	0 45 0 45	21 51 21 51 21 52	0 2 0 2	7 0 1 6 59 1 6 59 1	9 2 9 2	57 16 14 57 16 15 57 16 15	20 41 20 42	20 21 20 22	6 59 7 1	16 57 16 57 16 56	6 21 6 21 6 22
S 7 M 8 T 9	22 46 22 51 22 57	16 56 1 54 13 35 2 55	18 54 19 27	1 19 22 41 1 8 22 28 0 57 22 14	2 1 23 56 1 55 23 52 1 49 23 48	1 11 1 11	20 7	0 39 0 39 0 39	18 5 18 6	0 45	21 52 21 53	0 2 0 2	6 59 1 6 59 1 6 59 1	9 2 9 2	57 16 15 56 16 15 56 16 15	20 41 20 41	20 23 20 24	7 6 7 8	16 56 16 55 16 55	6 22 6 22 6 22
W10 T 11 F 12 S 13	23 2 23 6 23 10 23 14	1 12 4 53 3s 9 5 8	21 4 21 34	0 45 22 1 0 34 21 48 0 23 21 34 0 12 21 20	1 42 23 44 1 35 23 39 1 28 23 34 1 21 23 29	1 11 1 11	20 15 20 17 20 20 20 23	0 39 0 39 0 39 0 39	18 7 18 8	0 46	21 54 21 54 21 55 21 55	0 2 0 2	6 58 1 6 58 1 6 58 1 6 58 1	9 2 9 2	56 16 16 56 16 16 56 16 16 56 16 16	20 41 20 42	20 26 20 27	7 15 7 17	16 55 16 54 16 54 16 53	6 22 6 22 6 23 6 23
F 19	23 20 23 23 23 25 23 27 23 28	14 52 4 33 17 50 3 55 20 2 3 7 21 19 2 8 21 33 1 2	22 29 22 54 23 18 23 38 23 57 24 13	0 1 21 7 0n10 20 53 0 21 20 39 0 31 20 26 0 41 20 12 0 50 19 58	1 13 23 24 1 5 23 19 0 57 23 13 0 48 23 8 0 39 23 2 0 30 22 56	1 11 1 11 1 11 1 11 1 11	20 25 20 28 20 30 20 33 20 35 20 38	0 39 0 39	18 10 18 11 18 12 18 13 18 13	0 47 0 47 0 47 0 47 0 47	21 57 21 58 21 58 21 59	0 2 0 2 0 2 0 2 0 2	6 58 1 6 57 1 6 57 1 6 57 1 6 56 1 6 56 1	9 2 9 2 9 2 9 2 8 2	56 16 17 56 16 17 56 16 17 56 16 17 56 16 17 55 16 18	20 45 20 46 20 47 20 48 20 48	20 29 20 29 20 30 20 31 20 31	7 24 7 27 7 29 7 31 7 34	16 53 16 53 16 52 16 52 16 52 16 51	6 23 6 23 6 23 6 23 6 23 6 23
S 20 S 21 M22 T 23 W24 T 25 F 26 S 27	23 29 23 29	18 39 1 18 15 37 2 26 11 43 3 27 7 8 4 17 2 7 4 53 3n 5 5 12	24 26 24 37 24 44 24 49 24 51 24 50 24 47 24 40	0 59 19 45 1 7 19 31 1 15 19 18 1 22 19 5 1 28 18 52 1 34 18 39 1 39 18 26 1 43 18 14	0 20 22 50 0 10 22 44 0s 1 22 37 0 11 22 31 0 23 22 24 0 34 22 17 0 46 22 10 0 58 22 3	1 11 1 11 1 11 1 11 1 11 1 11	20 40 20 42 20 45 20 47 20 49 20 52 20 54 20 56	0 39 0 39 0 39 0 39 0 39 0 38		0 47	22 0 22 1 22 1 22 2 22 2	0 2 0 2 0 2 0 2 0 2 0 2	6 56 1 6 55 1 6 55 1 6 54 1 6 54 1 6 54 1 6 53 1	8 2 8 2 8 2 8 2 8 2 8 2	55 16 18 55 16 18 55 16 19 55 16 19 55 16 19 55 16 19 55 16 20 55 16 20	20 48 20 48 20 48 20 47 20 47 20 48	20 32 20 33 20 34 20 34 20 35 20 36	7 38 7 41 7 43 7 45 7 48 7 50	16 51 16 51 16 50 16 50 16 50 16 50 16 49	6 23 6 23 6 23 6 23 6 23 6 23 6 23 6 23
S 28 M29 T 30		16 49 4 12	24 31 24 20 24n 7	1 46 18 2 1 49 17 50 1n51 17n38	1 10 21 55 1 23 21 48 1 s 3 6 21 n 4 0	1 11	20 58 21 0 21n 3	0 38	18 22 18 23 18 s24	0 48 0 49 0s49		0 2	6 53 1 6 52 1 6n52 1n	8 2	55 16 20 55 16 20 56 16s21	20 49	20 38	7 57	16 49 16 49 16 s49	6 23 6 23 6n23

 $\label{eq:Julian Day Number = 2308886.5, Delta\ T = 77.32\ sec} \\ Ecliptic\ obliquity = 23°29'19, Nutation = -0°00'16, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 19°17'21, Lahiri = 18°24'21Greg.\ Calendar$

JULY 1609 GC 00:00 UT

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W 1	18 36 14	8958'01	29540	199559	4°R21	2999 9	8 II 8	10°R32	10 Ⅱ 47	15 m)17	2 8 47	26°R52	279547	3 M .54	21°R 2	W 1
T 2	18 40 10	9°55'13	16°48	21°57	4 Ω 12	29°47	8°21	10≈28	10°50	15°18	2°48	26951	27°44	4° 1	20 х 59	T 2
F 3	18 44 7	10°52'26	0Ω 35	23°53	4° 1	$0\Omega 25$	8°34	10°25	10°53	15°19	2°49	26°D51	27°41	4° 7	20°55	F 3
S 4	18 48 4	11°49'39	14° 2	25°48	3°47	1° 3	8°46	10°21	10°56	15°21	2°49	26°51	27°38	4°14	20°51	S 4
S 5	18 52 0	12°46'52	27° 6	27°41	3°31	1°41	8°59	10°17	10°59	15°22	2°50	26°52	27°35	4°21	20°48	S 5
M 6	18 55 57	13°44'05	9 m 49	29°31	3°13	2°19	9°12	10°14	11° 2	15°23	2°51	26°53	27°31	4°28	20°44	M 6
T 7	18 59 53	14°41'18	22°14	1 Q 20	2°52	2°57	9°25	10°10	11° 6	15°24	2°51	26°54	27°28	4°34	20°41	T 7
W 8	19 3 50	15°38'30	4 ≏ 25	3° 7	2°30	3°35	9°37	10° 6	11° 9	15°26	2°52	26°55	27°25	4°41	20°37	W 8
T 9	19 7 46	16°35'43	16°25	4°52	2° 5	4°13	9°50	10° 2	11°12	15°27	2°52	26°R55	27°22	4°48	20°34	T 9
F 10	19 11 43	17°32'56	28°20	6°35	1°38	4°51	10° 2	9°58	11°15	15°28	2°53	26°55	27°19	4°55	20°30	F 10
S 11	19 15 39	18°30'09	10 M 13	8°17	1° 9	5°29	10°15	9°54	11°18	15°30	2°53	26°54	27°16	5° 1	20°27	S 11
S 12	19 19 36	19°27'23	22°10	9°56	0°39	6° 6	10°27	9°50	11°21	15°31	2°54	26°54	27°12	5° 8	20°24	S 12
M13	19 23 33	20°24'36	4 才 13	11°33	0° 7	6°44	10°39	9°46	11°24	15°32	2°54	26°53	27° 9	5°15	20°20	M13
T 14	19 27 29	21°21'50	16°27	13° 9	29933	7°22	10°51	9°42	11°27	15°34	2°54	26°52	27° 6	5°21	20°17	T 14
W15	19 31 26	22°19'04	28°54	14°42	28°59	8° 0	11° 3	9°38	11°29	15°35	2°55	26°51	27° 3	5°28	20°14	W15
T 16	19 35 22	23°16'19	11 る 36	16°14	28°23	8°38	11°15	9°34	11°32	15°37	2°55	26°51	27° 0	5°35	20°11	T 16
F 17	19 39 19	24°13'34	24°33	17°43	27°46	9°16	11°27	9°30	11°35	15°38	2°55	26°D51	26°56	5°42	20° 8	F 17
S 18	19 43 15	25°10'50	7 ≈ 46	19°11	27° 9	9°54	11°39	9°26	11°38	15°40	2°56	26°51	26°53	5°48	20° 5	S 18
S 19	19 47 12	26° 8'07	21°13	20°37	26°32	10°32	11°51	9°21	11°41	15°42	2°56	26°51	26°50	5°55	20° 2	S 19
M20	19 51 8	27° 5'24	4) (54	22° 1	25°54	11°10	12° 3	9°17	11°43	15°43	2°56	26°R51	26°47	6° 2	20° 0	M20
T 21	19 55 5	28° 2'42	18°47	23°22	25°17	11°48	12°15	9°13	11°46	15°45	2°57	26°51	26°44	6° 8	19°57	T 21
W22	19 59 2	29° 0'01	2 Υ 48	24°42	24°40	12°26	12°26	9° 8	11°49	15°46	2°57	26°51	26°41	6°15	19°54	W22
T 23	20 2 58	29°57'21	16°57	25°59	24° 4	13° 4	12°38	9° 4	11°51	15°48	2°57	26°51	26°37	6°22	19°52	T 23
F 24	20 6 55	0 Ω 54'42	1810	27°15	23°28	13°42	12°49	9° 0	11°54	15°50	2°57	26°D51	26°34	6°29	19°49	F 24
S 25	20 10 51	1°52'04	15°25	28°28	22°54	14°20	13° 1	8°55	11°57	15°51	2°58	26°51	26°31	6°35	19°47	S 25
S 26	20 14 48	2°49'28	29°39	29°39	22°21	14°58	13°12	8°51	11°59	15°53	2°58	26°51	26°28	6°42	19°44	S 26
M27	20 18 44	3°46'52	13 Ⅱ 50	0 m) 47	21°50	15°36	13°23	8°46	12° 2	15°55	2°58	26°52	26°25	6°49	19°42	M27
T 28	20 22 41	4°44'18	27°54	1°53	21°20	16°14	13°34	8°42	12° 4	15°57	2°58	26°52	26°22	6°56	19°40	T 28
W29	20 26 37	5°41'45	119549	2°57	20°52	16°52	13°45	8°37	12° 7	15°58	2°58	26°53	26°18	7° 2	19°38	W29
T 30	20 30 34	6°39'13	25°32	3°57	20°25	17°30	13°56	8°33	12° 9	16° 0	2°58	26°R53	26°15	7° 9	19°36	T 30
F 31	20 34 31	7 Ω 36'43	9 Ω 1	4 m 56	2095 1	18 N 8	14 I 7	8≈28	12 I I11	16Mp 2	2 8 58	26953	269512	7 M .16	19 × 34	F 31

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S 5 M 6 T 7	22 52 22 47 22 41	15 0 2 39 11 14 3 36 7 4 4 20	22 28 1 22 3 1 21 36 1	50 16 45 2 44 48 16 35 2 58 45 16 26 3 12	20 59 1 11 20 50 1 11 20 42 1 11	21 13 0 38 21 15 0 38 21 17 0 38	18 29 0 49 18 31 0 49 18 32 0 50	22 6 0 2 22 7 0 2 22 7 0 2	6 50 1 8 6 49 1 8 6 49 1 8	2 56 16 22 2 56 16 22 2 56 16 23	20 50 20 41 20 49 20 42 20 49 20 43	8 11 16 48 6 23 8 13 16 48 6 23 8 16 16 48 6 23
W 8 T 9 F 10 S 11	22 34 22 27 22 20 22 12	1 s41 5 11 5 58 5 16	20 40 1 20 10 1	38 16 9 3 41 33 16 1 3 55	20 24 1 11 20 14 1 11	21 19 0 38 21 21 0 38 21 22 0 38 21 24 0 38	18 35 0 50	22 8 0 2 22 8 0 2	6 48 1 8 6 47 1 8 6 47 1 8 6 46 1 8	2 56 16 23 2 56 16 24	20 49 20 43 20 49 20 44 20 49 20 44 20 49 20 45	8 18 16 48 6 22 8 20 16 48 6 22 8 22 16 48 6 22 8 25 16 48 6 22
S 12 M13 T 14 W15 T 16 F 17	21 38 21 29	16 54 4 12 19 23 3 26 21 0 2 29 21 36 1 24	18 35 1 18 2 1 17 28 1 16 54 0	17 15 40 4 36 11 15 34 4 49 4 15 29 5 2 57 15 24 5 14	19 46 1 11 19 36 1 11 19 26 1 11 19 16 1 10	21 26 0 38 21 28 0 38 21 30 0 38 21 31 0 38 21 33 0 38 21 35 0 38	18 39 0 50 18 40 0 50 18 41 0 51 18 42 0 51	22 10 0 2 22 10 0 2 22 11 0 2 22 11 0 2	6 46 1 8 6 45 1 8 6 45 1 8 6 44 1 8 6 43 1 8 6 43 1 8	2 57 16 25 2 57 16 25 2 57 16 25 2 57 16 26	20 49 20 46 20 49 20 46 20 50 20 47 20 50 20 48 20 50 20 48 20 50 20 49	8 27 16 48 6 22 8 29 16 48 6 22 8 32 16 48 6 21 8 34 16 48 6 21 8 36 16 48 6 21 8 39 16 48 6 21
S 18 S 19 M20 T 21 W22 T 23 F 24	21 9 20 58 20 47 20 36 20 24 20 12 20 0	16 31 2 11 12 46 3 16 8 17 4 10 3 19 4 49 1n52 5 12	15 10 0 14 35 0 14 0 0 13 24 0 12 49 0s	33 15 11 5 48 24 15 8 5 59 15 15 5 6 8 6 15 3 6 17 8 4 15 1 6 25	18 46 1 10 18 35 1 10 18 24 1 10 18 14 1 10 18 3 1 10	21 36 0 38 21 38 0 38 21 39 0 38 21 41 0 38 21 43 0 38 21 44 0 38 21 46 0 38	18 47 0 51 18 49 0 51 18 50 0 51 18 51 0 51	22 12 0 2 22 12 0 2 22 13 0 2 22 13 0 2 22 14 0 2	6 42 1 8 6 42 1 8 6 41 1 8 6 40 1 8 6 40 1 8 6 39 1 8 6 38 1 8	2 58 16 27 2 58 16 27 2 58 16 27 2 59 16 27 2 59 16 28	20 50 20 49 20 50 20 50 20 50 20 51 20 50 20 51 20 50 20 52 20 50 20 52 20 50 20 53	8 41 16 48 6 20 8 43 16 48 6 20 8 46 16 48 6 20 8 48 16 48 6 20 8 50 16 48 6 19 8 53 16 48 6 19 8 55 16 48 6 19
S 25 S 26 M27 T 28 W29 T 30 F 31	19 34 19 21 19 7 18 53	15 47 4 27 18 56 3 36 20 55 2 34 21 36 1 22 20 57 0 7	11 5 0 10 31 0 9 58 0 9 25 1 8 52 1	34 14 58 6 45 45 14 58 6 50 55 14 58 6 54 6 14 59 6 58 18 15 0 7 0	17 29 1 10 17 18 1 10 17 6 1 9 16 55 1 9 16 43 1 9	21 48 0 38 21 50 0 38 21 51 0 38 21 53 0 38 21 54 0 38	18 57 0 52 18 59 0 52 19 0 0 52	22 15 0 2 22 15 0 2 22 15 0 2 22 16 0 2		3 0 16 29 3 0 16 29 3 0 16 29 3 0 16 30 3 1 16 30	20 50 20 54 20 50 20 54 20 50 20 55 20 50 20 55 20 49 20 56 20 49 20 57 20n49 20n57	8 57 16 48 6 19 9 0 16 48 6 18 9 2 16 48 6 18 9 4 16 49 6 18 9 7 16 49 6 17 9 9 16 49 6 17 9 11 16 49 6 17

Julian Day Number = 2308916.5, Delta T = 77.23 sec Ecliptic obliquity = $23^{\circ}29'19$, Nutation = - $0^{\circ}00'15$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'25$, Lahiri = $18^{\circ}24'25$ Greg. Calendar

AUGUST 1609 GC 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(¥	Р	N.	v	Ç	Ŗ	Day
S 1	20 38 27	8 Q 34'13	22 \O 13	5 m 51	19°R39	18 Ω 46	14 Ⅱ 18	8°R24	12 Ⅱ 14	16Mp 4	2 8 58	26°R52	269 9	7 m 22	19°R32	S 1
S 2	20 42 24	9°31'44	5 m 9	6°43	199520	19°24	14°28	8 ≈ 19	12°16	16° 6	2°R58	26951	26° 6	7°29	19 × 30	S 2
M 3	20 46 20	10°29'16	17°47	7°32	19° 2	20° 2	14°39	8°15	12°18	16° 8	2°58	26°49	26° 2	7°36	19°28	M 3
T 4	20 50 17	11°26'48	0 ჲ 11	8°17	18°47	20°40	14°49	8°10	12°20	16° 9	2°58	26°47	25°59	7°43	19°26	T 4
W 5	20 54 13	12°24'22	12°21	8°59	18°34	21°19	15° 0	8° 6	12°23	16°11	2°58	26°45	25°56	7°49	19°25	W 5
T 6	20 58 10	13°21'57	24°21	9°38	18°24	21°57	15°10	8° 2	12°25	16°13	2°58	26°43	25°53	7°56	19°23	T 6
F 7	21 2 6	14°19'33	6ML16	10°12	18°16	22°35	15°20	7°57	12°27	16°15	2°58	26°42	25°50	8° 3	19°22	F 7
S 8	21 6 3	15°17'09	18° 9	10°43	18°10	23°13	15°30	7°53	12°29	16°17	2°58	26°D42	25°47	8° 9	19°20	S 8
S 9	21 10 0	16°14'47	0 ∡ 7 5	11° 9	18° 7	23°51	15°40	7°48	12°31	16°19	2°58	26°43	25°43	8°16	19°19	S 9
M10	21 13 56	17°12'26	12° 9	11°30	18°D 6	24°29	15°50	7°44	12°33	16°21	2°58	26°44	25°40	8°23	19°18	M10
T 11	21 17 53	18°10'05	24°26	11°47	18° 7	25° 7	16° 0	7°39	12°35	16°23	2°58	26°46	25°37	8°30	19°17	T 11
W12	21 21 49	19° 7'46	6 궁 58	11°59	18°11	25°45	16° 9	7°35	12°37	16°25	2°57	26°47	25°34	8°36	19°16	W12
T 13	21 25 46	20° 5'29	19°50	12° 5	18°16	26°23	16°19	7°31	12°38	16°27	2°57	26°48	25°31	8°43	19°15	T 13
F 14	21 29 42	21° 3'12	3≈ 2	12°R 6	18°24	27° 1	16°28	7°27	12°40	16°29	2°57	26°R48	25°27	8°50	19°14	F 14
S 15	21 33 39	22° 0'56	16°35	12° 1	18°35	27°40	16°37	7°22	12°42	16°31	2°57	26°47	25°24	8°56	19°13	S 15
S 16	21 37 35	22°58'42	0 ∺ 28	11°51	18°47	28°18	16°47	7°18	12°44	16°33	2°56	26°45	25°21	9° 3	19°13	S 16
M17	21 41 32	23°56'30	14°37	11°35	19° 1	28°56	16°56	7°14	12°45	16°35	2°56	26°41	25°18	9°10	19°12	M17
T 18	21 45 29	24°54'19	28°57	11°13	19°18	29°34	17° 4	7°10	12°47	16°38	2°56	26°37	25°15	9°17	19°12	T 18
W19	21 49 25	25°52'09	13 Y 23	10°45	19°36	0 m 12	17°13	7° 6	12°48	16°40	2°55	26°33	25°12	9°23	19°11	W19
T 20	21 53 22	26°50'02	27°50	10°12	19°56	0°50	17°22	7° 1	12°50	16°42	2°55	26°30	25° 8	9°30	19°11	T 20
F 21	21 57 18	27°47'56	12812	9°33	20°18	1°29	17°30	6°57	12°51	16°44	2°55	26°28	25° 5	9°37	19°11	F 21
S 22	22 1 15	28°45'52	26°27	8°49	20°42	2° 7	17°39	6°53	12°53	16°46	2°54	26°D27	25° 2	9°44	19°11	S 22
S 23	22 5 11	29°43'50	10∏32	8° 1	21° 7	2°45	17°47	6°49	12°54	16°48	2°54	26°27	24°59	9°50	19°D10	S 23
M24	22 9 8	0 m 41'50	24°25	7° 9	21°34	3°23	17°55	6°46	12°56	16°50	2°54	26°28	24°56	9°57	19°10	M24
T 25	22 13 4	1°39'52	8 95 7	6°15	22° 3	4° 1	18° 3	6°42	12°57	16°53	2°53	26°30	24°53	10° 4	19°11	T 25
W26	22 17 1	2°37'56	21°37	5°18	22°33	4°40	18°11	6°38	12°58	16°55	2°53	26°R31	24°49	10°10	19°11	W26
T 27	22 20 58	3°36'01	4 Ω 54	4°21	23° 4	5°18	18°19	6°34	12°59	16°57	2°52	26°31	24°46	10°17	19°11	T 27
F 28	22 24 54	4°34'09	18° 0	3°25	23°37	5°56	18°26	6°30	13° 0	16°59	2°52	26°29	24°43	10°24	19°12	F 28
S 29	22 28 51	5°32'18	0 m 53	2°30	24°11	6°35	18°34	6°27	13° 1	17° 1	2°51	26°25	24°40	10°31	19°12	S 29
S 30	22 32 47	6°30'29	13°34	1°38	24°47	7°13	18°41	6°23	13° 2	17° 3	2°51	26°19	24°37	10°37	19°13	S 30
M31	22 36 44	7 Mg 28'42	26Mg 3	0 m 50	259524	7 m 51	18 Ⅱ 48	6≈20	13 II 3	17 m) 6	2 8 50	269512	24933	10 M .44	19 × 13	M31

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
S 1	18n 9	16n16 2n16	7n50 1s4	40 15n 3 7s 4	16n19 1n 9	21n56 0s38	19s 2 0s52	22n17 0s 2	6n33 1n 8	3s 1 16s31	20n50 20n58	9s13	16 s 49 6 n 1 6
S 2	17 54	12 41 3 16	7 20 1 5	52 15 5 7 5	16 7 1 9	21 58 0 38	19 4 0 52	22 17 0 2	6 32 1 8	3 2 16 31	20 50 20 58	9 16	16 50 6 16
M 3	17 39	8 36 4 5		3 15 7 7 5		21 59 0 38			6 31 1 8		20 50 20 59		16 50 6 16
T 4 W 5	17 23	4 15 4 42	-	15 15 10 7 4		22 0 0 38			6 30 1 7		20 51 21 0		16 50 6 15
T 6	17 7 16 51	0s12 5 6 4 34 5 15		26 15 13 7 3 38 15 15 7 2	15 31 1 9 15 18 1 8	22 1 0 38 22 2 0 38			6 30 1 7 6 29 1 7		20 51 21 0 20 51 21 1	9 23	16 50 6 15 16 50 6 14
F 7	16 34	8 44 5 11	5 9 2 4		15 5 1 8				6 28 1 7		20 51 21 1		16 51 6 14
S 8	16 17	12 34 4 54	4 47 3	0 15 22 6 57		22 5 0 38			6 27 1 7		20 52 21 2		16 51 6 14
S 9	16 0	15 55 4 24	4 27 3 1	11 15 25 6 54	14 40 1 8	22 6 0 38	19 12 0 53	22 19 0 2	6 27 1 7	3 4 16 33	20 51 21 3	9 32	16 51 6 13
M10	15 43				14 27 1 8				6 26 1 7		20 51 21 3		16 52 6 13
T 11	15 25				14 14 1 8				6 25 1 7		20 51 21 4		16 52 6 13
W12 T 13	15 7 14 49	21 31 1 47 21 23 0 38	3 40 3 4 3 28 3 5		14 1 1 8 13 48 1 7				6 24 1 7 6 23 1 7		20 51 21 4 20 50 21 5		16 52 6 12 16 53 6 12
F 14	14 49				13 48 1 7				6 23 1 7		20 50 21 6		16 53 6 12
S 15	-	17 35 1 47					19 19 0 53		6 22 1 7		20 51 21 6		16 53 6 11
S 16	13 53	14 3 2 54	3 11 4 1	16 15 51 6 23	13 8 1 7	22 12 0 38	19 21 0 53	22 21 0 2	6 21 1 7	3 6 16 35	20 51 21 7	9 48	16 54 6 11
M17	13 34								6 20 1 7		20 52 21 7		16 54 6 10
T 18	13 15	4 39 4 37				22 14 0 38			6 19 1 7		20 52 21 8		16 54 6 10
W19 T 20	12 55 12 36	0n37 5 4 5 52 5 12				22 15 0 38 22 16 0 38	19 24 0 53 19 25 0 53		6 19 1 7 6 18 1 7		20 53 21 8 20 54 21 9		16 55 6 9 16 55 6 9
F 21	12 16		3 46 4 3				19 26 0 54		6 17 1 7		20 54 21 10		16 56 6 8
S 22	11 56		4 3 4 3				19 27 0 54		6 16 1 7		20 54 21 10		16 56 6 8
S 23	11 35	18 22 3 45	4 23 4 3	31 16 14 5 39	11 32 1 6	22 18 0 38	19 28 0 54	22 22 0 2	6 15 1 7	3 9 16 38	20 54 21 11	10 4	16 56 6 8
M24	11 15	20 36 2 46	4 46 4 2	27 16 17 5 33	11 18 1 6	22 19 0 38	19 29 0 54	22 22 0 2	6 14 1 7	3 9 16 38	20 54 21 11	10 6	16 57 6 7
T 25		21 36 1 39	_			22 20 0 38			6 14 1 7		20 54 21 12		16 57 6 7
W26 T 27	10 33		5 41 4 1			22 20 0 38			6 13 1 7		20 54 21 12		
F 28	9 51	19 49 0n46 17 17 1 54				22 21 0 38 22 22 0 38			6 12 1 7 6 11 1 7		20 54 21 13 20 54 21 14		
S 29	9 30							22 23 0 2			20 55 21 14		
S 30	9 9	9 58 3 47	7 47 3 2	21 16 27 4 51	9 53 1 5	22 23 0 38	19 35 0 54	22 23 0 2	6 9 1 7	3 12 16 40	20 56 21 15	10 20	17 0 6 4
M31	8n47	5n39 4n27	8n20 3s	4 16n27 4s43	9n38 1n 4	22n23 0s38	19s36 0s54	22n23 0s 2	6n 8 1n 7	3 s 12 16 s 40	20n57 21n15	10 s23	17s 0 6n 4

Julian Day Number = 2308947.5, Delta T = 77.13 sec Ecliptic obliquity = $23^{\circ}29'20$, Nutation = - $0^{\circ}00'14$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'29$, Lahiri = $18^{\circ}24'29$ Greg. Calendar

SEPTEMBER 1609 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)Å(¥	Р	ß	Ω	Ç	Ŷ,	Day
T 1	22 40 40	8 m) 26'56	8 ₽ 19	0°R 8	269 2	8 m)30	18 II 55	6°R16	13 I 4	17 m) 8	2°R49	26°R 4	24930	10 M 51	19 × 14	T 1
W 2	22 44 37	9°25'12	20°26	$29\Omega 32$	26°41	9° 8	19° 2	6≈13	13° 5	17°10	2 8 49	25957	24°27	10°57	19°15	W 2
T 3	22 48 33	10°23'29	2 M 24	29° 3	27°21	9°46	19° 9	6°10	13° 6	17°12	2°48	25°50	24°24	11° 4	19°16	T 3
F 4	22 52 30	11°21'48	14°17	28°42	28° 3	10°25	19°15	6° 6	13° 7	17°14	2°48	25°45	24°21	11°11	19°17	F 4
S 5	22 56 27	12°20'09	26° 8	28°30	28°45	11° 3	19°22	6° 3	13° 8	17°17	2°47	25°41	24°18	11°18	19°18	S 5
S 6	23 0 23	13°18'32	8 √ 2	28°D27	29°28	11°42	19°28	6° 0	13° 8	17°19	2°46	25°D39	24°14	11°24	19°19	S 6
M 7	23 4 20	14°16'56	20° 3	28°33	$0\Omega13$	12°20	19°34	5°57	13° 9	17°21	2°46	25°40	24°11	11°31	19°20	M 7
T 8	23 8 16	15°15'21	2 ප 18	28°48	0°58	12°58	19°40	5°54	13° 9	17°23	2°45	25°41	24° 8	11°38	19°22	T 8
W 9	23 12 13	16°13'49	14°50	29°13	1°44	13°37	19°46	5°51	13°10	17°26	2°44	25°42	24° 5	11°44	19°23	W 9
T 10	23 16 9	17°12'18	27°44	29°46	2°31	14°15	19°51	5°48	13°10	17°28	2°43	25°R42	24° 2	11°51	19°25	T 10
F 11	23 20 6	18°10'48	11 ≈ 3	0 m 28	3°19	14°54	19°57	5°46	13°11	17°30	2°43	25°41	23°59	11°58	19°26	F 11
S 12	23 24 2	19° 9'21	24°48	1°19	4° 8	15°32	20° 2	5°43	13°11	17°32	2°42	25°38	23°55	12° 5	19°28	S 12
S 13	23 27 59	20° 7'55	8 米 59	2°17	4°57	16°11	20° 7	5°41	13°12	17°35	2°41	25°32	23°52	12°11	19°30	S 13
M14	23 31 56	21° 6'31	23°31	3°22	5°48	16°49	20°12	5°38	13°12	17°37	2°40	25°25	23°49	12°18	19°32	M14
T 15	23 35 52	22° 5'09	8 Y 18	4°34	6°39	17°28	20°17	5°36	13°12	17°39	2°40	25°16	23°46	12°25	19°34	T 15
W16	23 39 49	23° 3'49	23°12	5°52	7°30	18° 6	20°21	5°33	13°12	17°41	2°39	25° 7	23°43	12°31	19°36	W16
T 17	23 43 45	24° 2'31	8 8 3	7°15	8°23	18°45	20°26	5°31	13°12	17°43	2°38	25° 0	23°39	12°38	19°38	T 17
F 18	23 47 42	25° 1'15	22°44	8°43	9°16	19°24	20°30	5°29	13°12	17°46	2°37	24°54	23°36	12°45	19°40	F 18
S 19	23 51 38	26° 0'02	7 Ⅱ 10	10°15	10°10	20° 2	20°34	5°27	13°R12	17°48	2°36	24°50	23°33	12°52	19°43	S 19
S 20	23 55 35	26°58'51	21°16	11°51	11° 4	20°41	20°38	5°25	13°12	17°50	2°35	24°D48	23°30	12°58	19°45	S 20
M21	23 59 31	27°57'43	599 4	13°29	11°59	21°19	20°41	5°23	13°12	17°52	2°34	24°48	23°27	13° 5	19°47	M21
T 22	0 3 28	28°56'37	18°33	15°10	12°54	21°58	20°45	5°21	13°12	17°54	2°34	24°R49	23°24	13°12	19°50	T 22
W23	0 7 24	29°55'33	1 Ω 45	16°53	13°50	22°37	20°48	5°20	13°12	17°57	2°33	24°49	23°20	13°18	19°53	W23
T 24	0 11 21	0 ≏ 54'31	14°43	18°38	14°47	23°16	20°51	5°18	13°12	17°59	2°32	24°47	23°17	13°25	19°55	T 24
F 25	0 15 18	1°53'32	27°29	20°23	15°44	23°54	20°54	5°17	13°11	18° 1	2°31	24°43	23°14	13°32	19°58	F 25
S 26	0 19 14	2°52'34	10 Mg 3	22°10	16°42	24°33	20°57	5°15	13°11	18° 3	2°30	24°36	23°11	13°39	20° 1	S 26
S 27	0 23 11	3°51'39	22°28	23°57	17°40	25°12	20°59	5°14	13°11	18° 5	2°29	24°26	23° 8	13°45	20° 4	S 27
M28	0 27 7	4°50'46	4 Ω 44	25°44	18°38	25°51	21° 2	5°13	13°10	18° 8	2°28	24°14	23° 4	13°52	20° 7	M28
T 29	0 31 4	5°49'55	16°51	27°32	19°37	26°29	21° 4	5°12	13°10	18°10	2°27	24° 0	23° 1	13°59	20°10	T 29
W30	0 35 0	6 ₽ 49'06	28 ≏ 52	29 m 19	$20\Omega 37$	27 m) 8	21 I 6	5≈11	13 II 9	18 M)12	2 8 26	239547	22958	14M 5	20 х 13	W30

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
T 1 W 2 T 3	8n25 8 3 7 41	1n11 4n54 3s15 5 7 7 32 5 6	9 21 2 2	8 16 28 4 29	9 9 1 4	22 25 0 38	19 38 0 54	22n23 0s 2 22 23 0 2 22 24 0 2	6 7 1 7	3 13 16 40	20n59 21n16 21 0 21 16 21 1 21 17	10 27	17 1 6 3
F 4 S 5	7 19	7 32 5 6 11 30 4 52 15 1 4 26	10 14 1 5	0 16 26 4 14	8 40 1 4		19 39 0 54	22 24 0 2		3 14 16 41 3 14 16 41 3 15 16 41	21 2 21 18	10 32	17 2 6 2
S 6 M 7 T 8 W 9	6 34 6 12 5 49 5 27	20 7 3 0 21 26 2 3	10 55 1 1 11 11 0 5 11 23 0 3 11 30 0 1	3 16 22 3 52 4 16 19 3 45	7 55 1 3 7 40 1 3			22 24 0 1	6 3 1 7 6 2 1 7 6 2 1 7 6 1 1 7	3 15 16 41 3 16 16 42 3 16 16 42 3 16 16 42	21 3 21 19 21 3 21 20	10 39 10 41	17 4 6 1 17 4 6 0
T 10 F 11 S 12	4 41	18 48 1 21		0 16 13 3 31 5 16 9 3 23 0 16 5 3 16	6 55 1 2	22 28 0 38 22 29 0 38 22 29 0 38	19 45 0 54	22 24 0 1 22 24 0 1 22 24 0 1	6 0 1 7 5 59 1 7 5 58 1 7	3 17 16 42 3 17 16 43 3 18 16 43	21 3 21 21	10 48	17 6 5 59
S 13 M14 T 15 W16 T 17 F 18	3 32 3 9 2 46 2 22	6 32 4 19 1 10 4 51	10 53 1 10 33 1 1 10 10 1 2	5 15 55 3 2 6 15 50 2 55 6 15 44 2 48 4 15 37 2 41	6 9 1 1 5 54 1 1 5 39 1 1 5 23 1 1	22 30 0 38 22 30 0 38 22 31 0 38 22 31 0 38	19 47 0 54 19 47 0 54 19 48 0 54	22 24 0 1 22 24 0 1 22 24 0 1	5 57 1 7 5 56 1 7 5 56 1 7 5 55 1 7 5 54 1 7 5 53 1 7		21 6 21 23 21 8 21 24	10 54 10 57 10 59 11 1	17 8 5 58 17 8 5 57 17 9 5 57 17 10 5 57
S 19 S 20 M21 T 22 W23 T 24 F 25	1 12 0 49 0 25 0 2 0 s22	17 50 3 46 20 24 2 49 21 40 1 43 21 39 0 33 20 25 0n37 18 6 1 44	8 43 1 4 8 9 1 4 7 32 1 5 6 54 1 5 6 14 1 5	7 15 6 2 13 0 14 57 2 6 2 14 48 2 0 3 14 38 1 53	4 37 1 0 4 22 1 0 4 6 0 59 3 51 0 59 3 35 0 59	22 32 0 38 22 33 0 38	19 50 0 54 19 50 0 54 19 51 0 54 19 51 0 54 19 52 0 54	22 24 0 1	5 52 1 8 5 51 1 8 5 50 1 8 5 50 1 8 5 49 1 8 5 48 1 8	3 22 16 44 3 22 16 45 3 22 16 45 3 23 16 45 3 23 16 45	21 12 21 26 21 13 21 26 21 13 21 27 21 13 21 27 21 13 21 28 21 13 21 29	11 8 11 10 11 13 11 15 11 17	17 11 5 55 17 12 5 55 17 13 5 54 17 13 5 54 17 14 5 54
S 26 S 27	- 1	11 8 3 36		3 14 17 1 40	3 4 0 58		19 52 0 54	22 24 0 1 22 24 0 1	5 47 1 8 5 46 1 8	3 24 16 45	21 14 21 29 21 15 21 30	11 22	17 15 5 53
M28 T 29 W30	1 32 1 56 2 19 2 s43	6 55 4 16 2 28 4 44 2s 2 4 58 6s25 5n 0	3 23 1 5 2 38 1 4	0 13 54 1 27 8 13 41 1 21	2 33 0 58 2 17 0 58	22 33 0 38 22 33 0 38	19 53 0 54 19 53 0 54	22 24 0 1 22 24 0 1 22 24 0 1 22 24 0 s 1	5 45 1 8 5 45 1 8 5 44 1 8 5n43 1n 8	3 25 16 46 3 26 16 46	21 17 21 30 21 19 21 31 21 21 21 31 21n23 21n32	11 26 11 29	17 16 5 52 17 17 5 52

Julian Day Number = 2308978.5, Delta T = 77.04 sec Ecliptic obliquity = 23°29'21, Nutation = -0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'33$, Lahiri = $18^{\circ}24'34$ Greg. Calendar

OCTOBER 1609 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ұ(¥	Р	₽.	v	Ç	Ŷ,	Day
T 1	0 38 57	7 ≏ 48'19	10 M .46	1₽ 6	21 Ω 37	27 m 47	21耳 8	5°R10	13°R 8	18 m)14	2°R25	23°R35	22955	14 M .12	20 х 17	T 1
F 2	0 42 53	8°47'34	22°37	2°53	22°37	28°26	21° 9	5≈ 9	13 II 8	18°16	2 8 24	239525	22°52	14°19	20°20	F 2
S 3	0 46 50	9°46'51	4 ₹ 26	4°40	23°38	29° 5	21°11	5° 8	13° 7	18°18	2°23	23°17	22°49	14°26	20°23	S 3
S 4	0 50 47	10°46'10	16°18	6°26	24°39	29°44	21°12	5° 8	13° 6	18°20	2°22	23°12	22°45	14°32	20°27	S 4
M 5	0 54 43	11°45'31	28°17	8°11	25°41	0 ჲ 23	21°13	5° 7	13° 5	18°22	2°21	23°10	22°42	14°39	20°31	M 5
T 6	0 58 40	12°44'53	10 ට 27	9°56	26°42	1° 1	21°14	5° 7	13° 5	18°24	2°20	23°D 9	22°39	14°46	20°34	T 6
W 7	1 2 36	13°44'17	22°54	11°40	27°45	1°40	21°14	5° 6	13° 4	18°27	2°19	23°R 9	22°36	14°52	20°38	W 7
T 8	1 6 33	14°43'43	5≈44	13°24	28°47	2°19	21°15	5° 6	13° 3	18°29	2°18	23° 8	22°33	14°59	20°42	T 8
F 9	1 10 29	15°43'11	19° 0	15° 7	29°50	2°58	21°R15	5° 6	13° 2	18°31	2°17	23° 6	22°30	15° 6	20°46	F 9
S 10	1 14 26	16°42'41	2) (46	16°49	0 m 53	3°37	21°15	5°D 6	13° 1	18°33	2°15	23° 2	22°26	15°13	20°50	S 10
S 11	1 18 22	17°42'12	17° 2	18°30	1°57	4°16	21°15	5° 6	13° 0	18°35	2°14	22°55	22°23	15°19	20°54	S 11
M12	1 22 19	18°41'45	1 Υ 44	20°11	3° 1	4°55	21°14	5° 6	12°58	18°37	2°13	22°45	22°20	15°26	20°58	M12
T 13	1 26 16	19°41'20	16°47	21°52	4° 5	5°34	21°14	5° 7	12°57	18°39	2°12	22°34	22°17	15°33	21° 2	T 13
W14	1 30 12	20°40'57	2 8 0	23°31	5°10	6°14	21°13	5° 7	12°56	18°41	2°11	22°23	22°14	15°39	21° 6	W14
T 15	1 34 9	21°40'37	17°13	25°10	6°14	6°53	21°12	5° 7	12°55	18°43	2°10	22°12	22°10	15°46	21°10	T 15
F 16	1 38 5	22°40'18	2П16	26°48	7°20	7°32	21°11	5° 8	12°53	18°44	2° 9	22° 4	22° 7	15°53	21°15	F 16
S 17	1 42 2	23°40'02	16°59	28°26	8°25	8°11	21° 9	5° 9	12°52	18°46	2° 8	21°58	22° 4	16° 0	21°19	S 17
S 18	1 45 58	24°39'48	19518	OM 3	9°31	8°50	21° 8	5°10	12°51	18°48	2° 7	21°56	22° 1	16° 6	21°23	S 18
M19	1 49 55	25°39'36	15°11	1°40	10°37	9°29	21° 6	5°10	12°49	18°50	2° 5	21°55	21°58	16°13	21°28	M19
T 20	1 53 51	26°39'27	28°40	3°16	11°43	10° 9	21° 4	5°11	12°48	18°52	2° 4	21°55	21°55	16°20	21°32	T 20
W21	1 57 48	27°39'20	11 Ω 46	4°52	12°49	10°48	21° 2	5°13	12°46	18°54	2° 3	21°54	21°51	16°26	21°37	W21
T 22	2 1 45	28°39'15	24°34	6°27	13°56	11°27	20°59	5°14	12°44	18°56	2° 2	21°52	21°48	16°33	21°42	T 22
F 23	2 5 41	29°39'12	7Mmy 7	8° 1	15° 3	12° 6	20°57	5°15	12°43	18°57	2° 1	21°47	21°45	16°40	21°47	F 23
S 24	2 9 38	0 M .39'11	19°28	9°35	16°10	12°46	20°54	5°17	12°41	18°59	2° 0	21°40	21°42	16°47	21°51	S 24
S 25	2 13 34	1°39'13	1 ≏ 39	11° 9	17°17	13°25	20°51	5°18	12°39	19° 1	1°59	21°29	21°39	16°53	21°56	S 25
M26	2 17 31	2°39'16	13°44	12°42	18°25	14° 4	20°48	5°20	12°38	19° 3	1°58	21°16	21°36	17° 0	22° 1	M26
T 27	2 21 27	3°39'22	25°43	14°14	19°33	14°44	20°44	5°21	12°36	19° 4	1°56	21° 2	21°32	17° 7	22° 6	T 27
W28	2 25 24	4°39'29	7 M J38	15°47	20°41	15°23	20°41	5°23	12°34	19° 6	1°55	20°47	21°29	17°13	22°11	W28
T 29	2 29 20	5°39'38	19°29	17°18	21°49	16° 3	20°37	5°25	12°32	19°8	1°54	20°34	21°26	17°20	22°16	T 29
F 30	2 33 17	6°39'49	1 √ 19	18°50	22°57	16°42	20°33	5°27	12°30	19° 9	1°53	20°23	21°23	17°27	22°22	F 30
S 31	2 37 13	7 M 40'02	13 × 10	20M21	24 Mp 6	17 ≏ 22	20Ⅱ29	5≈29	12Ⅲ28	19 m)11	1 8 52	209514	219520	17 M 33	22 × 127	S 31

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T 1 F 2 S 3	3 s 6 3 30 3 53	10 s32 4n48 14 13 4 23 17 21 3 48	0 21 1 3	8 13 2 1 2	1 30 0 57	22n34 0 s38 22 34 0 38 22 34 0 38	19 54 0 54	22n24 0s 1 22 24 0 1 22 24 0 1	5n42 1n 8 5 41 1 8 5 40 1 8	3 27 16 46	21n26 21n32 21 27 21 33 21 29 21 33	3 11 35	17 19 5 50
S 4 M 5 T 6 W 7 T 8 F 9	4 16 4 40 5 3 5 26 5 49 6 12	21 58 1 7 21 31 0 1 19 57 1s 6	1 58 1 2 2 44 1 1 3 30 1 1 4 15 1	4 12 18 0 44 9 12 2 0 38	0 42 0 56 0 27 0 56 0 11 0 55 0s 5 0 55	22 34 0 38 22 34 0 38 22 34 0 38 22 34 0 38		22 24 0 1 22 24 0 1	5 40 1 8 5 39 1 8 5 38 1 8 5 37 1 8 5 36 1 8 5 36 1 8	3 28 16 47 3 29 16 47 3 29 16 47 3 30 16 47	21 29 21 34 21 30 21 34 21 30 21 33 21 30 21 33 21 30 21 30 21 30 21 30	1 11 42 5 11 44 5 11 47 6 11 49	17 21 5 49 17 21 5 49 17 22 5 48 17 22 5 48
S 10 S 11 M12 T 13 W14 T 15 F 16 S 17	6 35 6 58 7 20 7 43 8 6 8 28 8 50	13 30 3 13 8 52 4 4 3 36 4 40 2n 1 4 59 7 34 4 56 12 39 4 32 16 54 3 50	5 45 0 5 6 30 0 5 7 14 0 4 7 58 0 3 8 41 0 3 9 23 0 2	6 10 56 0 16 0 10 38 0 11 4 10 20 0 6 7 10 2 0 0 1 9 43 0n 5 4 9 23 0 10 7 9 4 0 14	0 37 0 55 0 52 0 54 1 8 0 54 1 24 0 54 1 40 0 53 1 56 0 53 2 11 0 53	22 34 0 38 22 34 0 38 22 34 0 38	19 54 0 54 19 54 0 54	22 23 0 1 22 22 0 1	5 35 1 8 5 34 1 8 5 33 1 8 5 33 1 8 5 32 1 8 5 31 1 8 5 30 1 8 5 30 1 8	3 30 16 47 3 31 16 47 3 31 16 47 3 32 16 47 3 32 16 47 3 33 16 47 3 33 16 47	21 31 21 3° 21 32 21 38 21 34 21 38 21 36 21 39 21 38 21 39 21 39 21 40 21 41 21 40 21 42 21 4	7 11 53 8 11 56 8 11 58 9 12 0 9 12 2 0 12 5 0 12 7	17 24 5 47 17 24 5 47
S 18 M19 T 20 W21 T 22 F 23 S 24		21 42 1 47 22 2 0 35 21 3 0n36 18 56 1 43 15 55 2 43 12 14 3 34	11 27 0 12 7 0s 12 47 0 1 13 25 0 1	4 8 23 0 24 3 8 3 0 29 0 7 42 0 33 6 7 20 0 37 3 6 58 0 42 0 6 36 0 46	2 43 0 52 2 59 0 52 3 14 0 51 3 30 0 51 3 46 0 51 4 1 0 50	22 34 0 38 22 34 0 38 22 34 0 38 22 34 0 38 22 33 0 38 22 33 0 38 22 33 0 38 22 33 0 38	19 54 0 54 19 53 0 54 19 53 0 54 19 53 0 54 19 52 0 54 19 52 0 54	22 22 0 1 22 22 0 1	5 29 1 8 5 28 1 8 5 28 1 8 5 27 1 8 5 26 1 8 5 26 1 8 5 25 1 8	3 34 16 48 3 34 16 48 3 35 16 48 3 35 16 48 3 35 16 48 3 36 16 48	21 42 21 42 21 42 21 42 21 42 21 42 21 42 21 42 21 43 21 42 21 43 21 44 21 45 21 45	1 12 11 2 12 13 2 12 16 8 12 18 8 12 20 4 12 22	17 28 5 45 17 29 5 44 17 30 5 44 17 30 5 44 17 31 5 44 17 31 5 43
S 25 M26 T 27 W28 T 29 F 30 S 31	12 4 12 25 12 46 13 6 13 26 13 46 14s 6	0 s 5 2 4 5 7 5 19 4 5 9 9 3 3 4 4 7 1 3 2 5 4 2 3 1 6 4 5 3 4 8	17 2 0 5 17 35 1 18 8 1	0 5 29 0 58 6 5 5 1 1 2 4 42 1 5 9 4 18 1 9 5 3 54 1 12	4 48 0 49 5 4 0 49 5 19 0 49 5 35 0 48 5 51 0 48	22 32 0 38 22 32 0 38	19 51 0 54 19 50 0 54 19 50 0 54 19 50 0 54 19 49 0 54	22 20 0 1 22 20 0 1 22 20 0 1	5 24 1 8 5 24 1 8 5 23 1 8 5 22 1 9 5 22 1 9 5 21 1 9 5 n20 1n 9	3 37 16 48 3 37 16 48 3 37 16 48 3 38 16 47 3 38 16 47	21 46 21 43 21 48 21 43 21 50 21 46 21 53 21 46 21 55 21 47 21 56 21 47 21 58 21 143	5 12 29 5 12 31 6 12 34 7 12 36 7 12 38	17 33 5 42 17 34 5 42 17 34 5 42 17 35 5 42 17 35 5 41

Julian Day Number = 2309008.5, Delta T = 76.95 sec Ecliptic obliquity = $23^{\circ}29'21$, Nutation = - $0^{\circ}00'17$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'37$, Lahiri = $18^{\circ}24'38$ Greg. Calendar

NOVEMBER 1609 GC 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ)∤(并	Р	S.	v	Ç	Ŗ	Day
S 1	2 41 10	8 M 40'17	25 ∡ 3	21 M 51	25 m/14	18☎ 1	20°R25	5≈31	12°R26	19 m 13	1°R51	20°R 9	219516	17 M 40	22 × 32	S 1
M 2	2 45 7	9°40'33	7중 2	23°21	26°23	18°41	20Ⅱ20	5°34	12 Ⅱ 24	19°14	1 8 50	20	21°13	17°47	22°37	M 2
T 3	2 49 3	10°40'50	19°12	24°51	27°33	19°20	20°15	5°36	12°22	19°16	1°49	20°D 5	21°10	17°54	22°43	T 3
W 4	2 53 0	11°41'09	1≈36	26°20	28°42	20° 0	20°11	5°39	12°20	19°17	1°47	20° 5	21° 7	18° 0	22°48	W 4
T 5	2 56 56	12°41'30	14°21	27°49	29°51	20°39	20° 5	5°41	12°18	19°19	1°46	20°R 5	21° 4	18° 7	22°54	T 5
F 6	3 0 53	13°41'52	27°30	29°18	1₽ 1	21°19	20° 0	5°44	12°16	19°20	1°45	20° 4	21° 1	18°14	22°59	F 6
S 7	3 4 49	14°42'15	11) 7	0 ⊀ 146	2°11	21°59	19°55	5°47	12°14	19°22	1°44	20° 2	20°57	18°20	23° 5	S 7
S 8	3 8 46	15°42'40	25°14	2°13	3°20	22°38	19°49	5°49	12°12	19°23	1°43	19°56	20°54	18°27	23°10	S 8
M 9	3 12 42	16°43'06	9 Υ 49	3°40	4°31	23°18	19°44	5°52	12°10	19°25	1°42	19°49	20°51	18°34	23°16	M 9
T 10	3 16 39	17°43'34	24°50	5° 6	5°41	23°58	19°38	5°55	12° 7	19°26	1°41	19°39	20°48	18°41	23°21	T 10
W11	3 20 36	18°44'03	108 6	6°32	6°51	24°37	19°32	5°59	12° 5	19°27	1°40	19°30	20°45	18°47	23°27	W11
T 12	3 24 32	19°44'33	25°27	7°57	8° 2	25°17	19°26	6° 2	12° 3	19°29	1°39	19°21	20°41	18°54	23°33	T 12
F 13	3 28 29	20°45'05	10 Ⅱ 42	9°21	9°12	25°57	19°20	6° 5	12° 0	19°30	1°38	19°14	20°38	19° 1	23°39	F 13
S 14	3 32 25	21°45'39	25°40	10°44	10°23	26°37	19°13	6° 9	11°58	19°31	1°37	19° 9	20°35	19° 7	23°44	S 14
S 15	3 36 22	22°46'15	109514	12° 6	11°34	27°17	19° 7	6°12	11°56	19°32	1°36	19° 7	20°32	19°14	23°50	S 15
M16	3 40 18	23°46'52	24°20	13°27	12°45	27°56	19° 0	6°16	11°53	19°34	1°35	19°D 7	20°29	19°21	23°56	M16
T 17	3 44 15	24°47'31	$7\Omega_{58}$	14°47	13°56	28°36	18°53	6°19	11°51	19°35	1°34	19° 8	20°26	19°28	24° 2	T 17
W18	3 48 11	25°48'12	21°10	16° 6	15° 7	29°16	18°46	6°23	11°49	19°36	1°32	19°R 8	20°22	19°34	24° 8	W18
T 19	3 52 8	26°48'54	3 m 58	17°23	16°19	29°56	18°39	6°27	11°46	19°37	1°31	19° 8	20°19	19°41	24°14	T 19
F 20	3 56 5	27°49'38	16°28	18°38	17°30	0 M .36	18°32	6°31	11°44	19°38	1°30	19° 6	20°16	19°48	24°20	F 20
S 21	4 0 1	28°50'24	28°43	19°51	18°42	1°16	18°25	6°35	11°41	19°39	1°29	19° 2	20°13	19°54	24°26	S 21
S 22	4 3 58	29°51'11	10 ≏ 47	21° 2	19°54	1°56	18°18	6°39	11°39	19°40	1°28	18°56	20°10	20° 1	24°32	S 22
M23	4 7 54	0 ₹ 51'59	22°45	22°10	21° 5	2°36	18°10	6°43	11°36	19°41	1°28	18°47	20° 7	20° 8	24°38	M23
T 24	4 11 51	1°52'49	4 M .38	23°15	22°17	3°16	18° 3	6°47	11°34	19°42	1°27	18°38	20° 3	20°14	24°44	T 24
W25	4 15 47	2°53'40	16°29	24°17	23°29	3°56	17°55	6°52	11°31	19°43	1°26	18°28	20° 0	20°21	24°51	W25
T 26	4 19 44	3°54'33	28°20	25°14	24°41	4°36	17°47	6°56	11°29	19°44	1°25	18°20	19°57	20°28	24°57	T 26
F 27	4 23 40	4°55'27	10 × 13	26° 7	25°54	5°17	17°39	7° 1	11°26	19°45	1°24	18°12	19°54	20°35	25° 3	F 27
S 28	4 27 37	5°56'22	22° 8	26°54	27° 6	5°57	17°32	7° 5	11°24	19°46	1°23	18° 7	19°51	20°41	25° 9	S 28
S 29	4 31 34	6°57'18	4궁 8	27°35	28°18	6°37	17°24	7°10	11°21	19°47	1°22	18° 3	19°47	20°48	25°15	S 29
M30	4 35 30	7 . ₹58'15	16 ට 15	28 × 10	29 ₽ 31	7 M .17	17耳16	7≈14	11 I I19	19 m)47	1821	18°D 2	199544	20M55	25 × ⁷ 22	M30

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S 1 M 2			19s40 1s27 20 8 1 32	3n 6 1n19 2 41 1 22		22n31 0s37 22 31 0 37		22n19 0s 1 22 19 0 1	5n20 1n 9 5 19 1 9		21n58 21n48 21 59 21 49		
T 3	15 4		20 36 1 38	2 16 1 25		22 31 0 37			5 19 1 9		21 59 21 49		
W 4 T 5	15 22 15 41	20 50 1s 1 18 34 2 5	21 3 1 43 21 29 1 48	1 51 1 28 1 26 1 30	7 7 0 46 7 23 0 46				5 18 1 9 5 18 1 9		21 59 21 50 21 59 21 50		
F 6	15 59 16 17		21 53 1 53 22 17 1 58			22 30 0 37 22 29 0 37	19 45 0 54 19 44 0 54		5 17 1 9 5 16 1 9		21 59 21 5 22 0 21 5		
$\begin{bmatrix} s & t \\ s & 8 \end{bmatrix}$	16 35		22 39 2 3			22 29 0 37			5 16 1 9	3 41 16 47			
M 9	16 52					22 29 0 37			5 15 1 9	3 41 16 47			17 40 5 39
T 10 W11	17 9 17 26		23 20 2 11 23 39 2 15	0 41 1 43 1 7 1 45		22 28 0 37 22 28 0 37	19 42 0 54 19 41 0 54		5 15 1 9 5 14 1 9	3 41 16 47 3 41 16 46			17 41 5 39 17 41 5 39
T 12	17 43		23 57 2 18			22 27 0 37			5 14 1 9	3 42 16 46			17 42 5 39
F 13 S 14	17 59 18 15		24 13 2 21 24 28 2 24	1 59 1 49 2 26 1 50		22 27 0 37 22 26 0 37			5 14 1 9 5 13 1 9	3 42 16 46 3 42 16 46		1 13 9 5 13 11	17 42 5 38 17 42 5 38
S 15			24 42 2 26	2 52 1 52		22 26 0 37			5 13 1 9	3 42 16 46		13 13	
M16 T 17	18 45 19 0		24 54 2 28 25 5 2 29		10 7 0 41 10 22 0 41	22 26 0 37 22 25 0 36			5 12 1 9 5 12 1 9	3 42 16 46 3 43 16 46		5 13 16 5 13 18	
W18	19 15	17 3 2 43	25 15 2 30	4 11 1 56	10 37 0 40	22 25 0 36	19 35 0 54	22 14 0 1	5 11 1 9	3 43 16 45	22 7 21 50	5 13 20	17 44 5 38
T 19 F 20	19 29 19 43		25 23 2 30 25 29 2 30			22 24 0 36 22 24 0 36	19 34 0 54 19 33 0 54		5 11 1 9 5 11 1 9	3 43 16 45 3 43 16 45		7 13 22 7 13 24	
S 21	19 57		25 35 2 29				19 32 0 54		5 10 1 9	3 43 16 45			
S 22 M23	20 10 20 22		25 38 2 27 25 40 2 25			22 22 0 36 22 22 0 36	19 31 0 54 19 30 0 54		5 10 1 10 5 9 1 10		22 9 21 58 22 10 21 59		
T 24	20 22		25 40 2 23			22 22 0 36			5 9 1 10		22 10 21 39		
W25	20 47		25 40 2 18			22 21 0 36			5 9 1 10			13 35	
T 26 F 27			25 37 2 13 25 33 2 7			22 20 0 36 22 20 0 36			5 9 1 10 5 8 1 10	3 44 16 44 3 44 16 44		13 37 1 13 40	
S 28	21 21	21 0 2 16	25 27 2 0	8 32 2 4			19 24 0 54	22 11 0 1	5 8 1 10	3 44 16 44		1 13 42	17 47 5 37
	_	_	25 20 1 52 25 s11 1 s43					22 11 0 1 22n10 0s 1	5 8 1 10 5n 7 1n10		22 16 22 2 22n16 22n 2	_	17 48 5 37 17 s48 5 n37

 $\label{eq:Julian Day Number = 2309039.5, Delta\ T = 76.85\ sec} \\ Ecliptic\ obliquity = 23°29'21, Nutation = -0°00'18, out-of-bounds\ declination\ in\ red\ Ayanamsha:\ Fagan/Bradley = 19°17'42, Lahiri = 18°24'42Greg.\ Calendar$

DECEMBER 1609 GC 00:00 UT

Day	Sid.t	0	D	ğ	Q	ð	4	ħ)Å(¥	Р	ß	ß	Ç	Ŷ,	Day
T 1	4 39 27	8 √ 159'12	28 궁 32	28 × 37	0 M 43	7 M 57	17°R 8	7≈19	11°R16	19 m /48	1°R20	1895 3	199541	21 M 1	25 ₹ 28	T 1
W 2	4 43 23	10° 0'11	11≈ 1	28°56	1°56	8°38	17 I 0	7°24	11 I I14	19°49	1819	18° 4	19°38	21° 8	25°34	W 2
T 3	4 47 20	11° 1'10	23°47	29°R 5	3° 9	9°18	16°52	7°29	11°11	19°49	1°19	18° 6	19°35	21°15	25°41	T 3
F 4	4 51 16	12° 2'10	6 ∺ 53	29° 4	4°21	9°58	16°43	7°34	11°8	19°50	1°18	18°R 7	19°32	21°21	25°47	F 4
S 5	4 55 13	13° 3'10	20°22	28°52	5°34	10°39	16°35	7°39	11° 6	19°51	1°17	18° 7	19°28	21°28	25°53	S 5
S 6	4 59 10	14° 4'11	4Υ 16	28°30	6°47	11°19	16°27	7°44	11° 3	19°51	1°16	18° 5	19°25	21°35	26° 0	S 6
M 7	5 3 6	15° 5'12	18°35	27°55	8° 0	11°59	16°19	7°50	11° 1	19°52	1°15	18° 2	19°22	21°42	26° 6	M 7
T 8	5 7 3	16° 6'14	3 8 17	27° 9	9°13	12°40	16°11	7°55	10°58	19°52	1°15	17°58	19°19	21°48	26°12	T 8
W 9	5 10 59	17° 7'17	18°17	26°13	10°26	13°20	16° 3	8° 0	10°56	19°53	1°14	17°53	19°16	21°55	26°19	W 9
T 10	5 14 56	18° 8'20	3 Ⅱ 26	25° 7	11°39	14° 1	15°54	8° 6	10°53	19°53	1°13	17°49	19°13	22° 2	26°25	T 10
F 11	5 18 52	19° 9'23	18°35	23°53	12°53	14°41	15°46	8°11	10°51	19°54	1°12	17°45	19° 9	22° 8	26°32	F 11
S 12	5 22 49	20°10'28	3934	22°33	14° 6	15°22	15°38	8°17	10°48	19°54	1°12	17°43	19° 6	22°15	26°38	S 12
S 13	5 26 45	21°11'33	18°14	21°11	15°19	16° 2	15°30	8°22	10°46	19°54	1°11	17°D43	19° 3	22°22	26°44	S 13
M14	5 30 42	22°12'39	2 Ω 30	19°48	16°33	16°43	15°22	8°28	10°43	19°55	1°10	17°43	19° 0	22°28	26°51	M14
T 15	5 34 39	23°13'45	16°18	18°28	17°46	17°23	15°14	8°34	10°41	19°55	1°10	17°45	18°57	22°35	26°57	T 15
W16	5 38 35	24°14'52	29°40	17°13	19° 0	18° 4	15° 6	8°39	10°38	19°55	1° 9	17°46	18°53	22°42	27° 4	W16
T 17	5 42 32	25°16'00	12 m /36	16° 5	20°13	18°44	14°58	8°45	10°36	19°55	1°8	17°47	18°50	22°49	27°10	T 17
F 18	5 46 28	26°17'08	25°10	15° 7	21°27	19°25	14°50	8°51	10°33	19°55	1° 8	17°R48	18°47	22°55	27°17	F 18
S 19	5 50 25	27°18'17	7 ≏ 27	14°18	22°40	20° 6	14°42	8°57	10°31	19°55	1° 7	17°48	18°44	23° 2	27°23	S 19
S 20	5 54 21	28°19'27	19°30	13°39	23°54	20°47	14°35	9° 3	10°29	19°56	1° 7	17°46	18°41	23° 9	27°30	S 20
M21	5 58 18	29°20'37	1 M 26	13°12	25° 8	21°27	14°27	9° 9	10°26	19°56	1° 6	17°44	18°38	23°15	27°36	M21
T 22	6 2 14	0 ට 21'48	13°16	12°55	26°22	22° 8	14°19	9°15	10°24	19°R56	1° 6	17°41	18°34	23°22	27°42	T 22
W23	6 6 1 1	1°22'59	25° 6	12°D48	27°35	22°49	14°12	9°21	10°21	19°56	1° 5	17°38	18°31	23°29	27°49	W23
T 24	6 10 8	2°24'11	6 ₹ 59	12°51	28°49	23°30	14° 5	9°27	10°19	19°56	1° 5	17°36	18°28	23°35	27°55	T 24
F 25	6 14 4	3°25'23	1 <u>8</u> °56	13° 2	0 ∡ 3	24°10	13°57	9°34	10°17	19°55	1° 4	17°34	18°25	23°42	28° 2	F 25
S 26	6 18 1	4°26'35	0 궁 59	13°21	1°17	24°51	13°50	9°40	10°15	19°55	1° 4	17°32	18°22	23°49	28° 8	S 26
S 27	6 21 57	5°27'47	13°11	13°48	2°31	25°32	13°43	9°46	10°12	19°55	1° 3	17°D32	18°19	23°56	28°14	S 27
M28	6 25 54	6°28'59	25°33	14°21	3°45	26°13	13°36	9°53	10°10	19°55	1° 3	17°32	18°15	24° 2	28°21	M28
T 29	6 29 50	7°30'11	8≈ 5	15° 1	4°59	26°54	13°29	9°59	10° 8	19°55	1° 3	17°32	18°12	24° 9	28°27	T 29
W30	6 33 47	8°31'23	20°51	15°45	6°13	27°35	13°22	10° 6	10° 6	19°55	1° 2	17°33	18° 9	24°16	28°34	W30
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W16 T17 F18 S19	23 19 23 22 23 24 23 26 23 28	14 54 3 31 10 49 4 18 6 23 4 51	20 14 2 3 19 58 2 4 19 45 2 5	39 15 40 1 54 16 4 49 16 1 1 53 17	0 26 22 0 26 22 0 25 22	7 0 33 6 0 33 5 0 33	19 0 0 54 18 58 0 54	22 5 0 1 22 4 0 1 22 4 0 1	5 5 1 11 5 5 1 11 5 5 1 11 5 5 1 11 5 5 1 11	3 44 16 38		14 23 14 25	17 51 5 37 17 51 5 37 17 51 5 37
S 20 M21 T 22 W23 T 24 F 25 S 26	23 29 23 29 23 29 23 29 23 28 23 27 23 25	7 12 5 6 11 20 4 45 15 1 4 11 18 8 3 26 20 30 2 32	19 23 3 19 22 3 19 24 3		7 0 24 22 3 0 23 22 9 0 22 22 0 0 22 22 1 0 21 22	3 0 32 2 0 32 2 0 32 1 0 32 0 0 31	18 52 0 54 18 50 0 54 18 49 0 54 18 47 0 54 18 46 0 54	22 3 0 1 22 3 0 0 22 2 0 0 22 2 0 0 22 2 0 0	5 5 1 11 5 5 1 11 5 5 1 11	3 44 16 37 3 44 16 37 3 44 16 37 3 43 16 36 3 43 16 36	22 18 22 11 22 19 22 11 22 19 22 12 22 19 22 12 22 20 22 13 22 20 22 13 22 20 22 14	14 31 14 33 14 36 14 38 14 40	17 51 5 37 17 51 5 37 17 51 5 38 17 51 5 38 17 51 5 38
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Julian Day Number = 2309069.5, Delta T = 76.76 sec Ecliptic obliquity = $23^{\circ}29'20$, Nutation = - $0^{\circ}00'17$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}17'46$, Lahiri = $18^{\circ}24'46$ Greg. Calendar