

Astrodienst Ephemeris Tables for the year 1719

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 1719 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)ф(并	Р	n	Ω	Ç	ķ	Day
S 1	6 40 6	10 궁 5'30	3 8 39	24 3 20	4 ර 14	18 M -24	5°R18	11 M -24	10 Ω 17	15°R38	16°R52	8°R49	9 m 53	19) (30	9 X 8	S 1
M 2	6 44 2	11° 6'39	16° 9	25°54	5°29	19° 3	5 M 15	11°29	10==17 10°18	15 K36	16 K32	8 M 43	9°50	19 X 30	9Λ δ 9°11	M 2
T 3	6 47 59	12° 7'48	29° 0	27°28	6°44	19°42	5°13	11°34	10°19	15°36	16°51	8°36	9°47	19°43	9°13	T 3
W 4	6 51 55	13° 8'57	12 II 15	29° 1	8° 0	20°21	5°11	11°38	10°19	15°35	16°51	8°27	9°44	19°50	9°16	W 4
T 5	6 55 52	14°10'05	25°54	0≈33	9°15	21° 0	5° 8	11°43	10°20	15°35	16°50	8°17	9°41	19°57	9°18	T 5
F 6	6 59 48	15°11'13	9954	2° 2	10°31	21°39	5° 5	11°47	10°20	15°34	16°50	8° 8	9°37	20° 3	9°21	F 6
S 7	7 3 45	16°12'21	24°11	3°30	11°46	22°18	5° 2	11°52	10°21	15°33	16°49	8° 0	9°34	20°10	9°23	S 7
S 8	7 7 42	17°13'28	8 Ω 38	4°56	13° 2	22°56	4°59	11°56	10°21	15°33	16°49	7°54	9°31	20°16	9°26	S 8
M 9	7 11 38	18°14'35	23°11	6°18	14°17	23°35	4°55	12° 0	10°22	15°32	16°48	7°51	9°28	20°23	9°29	M 9
T 10	7 15 35	19°15'42	7 m) 42	7°37	15°33	24°14	4°52	12° 5	10°22	15°31	16°47	7°D50	9°25	20°30	9°32	T 10
W11	7 19 31	20°16'49	22° 7	8°52	16°48	24°53	4°48	12° 9	10°22	15°31	16°47	7°51	9°22	20°36	9°34	W11
T 12	7 23 28	21°17'56	6 ₾ 23	10° 2	18° 4	25°32	4°44	12°13	10°22	15°30	16°46	7°52	9°18	20°43	9°37	T 12
F 13	7 27 24	22°19'02	20°29	11° 7	19°19	26°11	4°40	12°17	10°23	15°30	16°45	7°R53	9°15	20°50	9°40	F 13
S 14	7 31 21	23°20'08	4ML22	12° 6	20°34	26°50	4°36	12°20	10°23	15°30	16°44	7°52	9°12	20°56	9°43	S 14
S 15	7 35 17	24°21'14	18° 4	12°57	21°50	27°29	4°31	12°24	10°R23	15°29	16°44	7°50	9° 9	21° 3	9°46	S 15
M16	7 39 14	25°22'20	1 ₹ 33	13°41	23° 5	28° 7	4°26	12°28	10°23	15°29	16°43	7°45	9° 6	21°10	9°49	M16
T 17	7 43 11	26°23'25	14°51	14°15	24°21	28°46	4°22	12°31	10°23	15°28	16°42	7°39	9° 3	21°16	9°52	T 17
W18	7 47 7	27°24'30	27°55	14°40	25°36	29°25	4°17	12°35	10°22	15°28	16°41	7°32	8°59	21°23	9°55	W18
T 19	7 51 4	28°25'34	10 궁 47	14°54	26°52	0 才 4	4°12	12°38	10°22	15°28	16°40	7°24	8°56	21°30	9°58	T 19
F 20	7 55 0	29°26'38	23°26	14°R58	28° 7	0°43	4° 6	12°42	10°22	15°28	16°39	7°18	8°53	21°36	10° 1	F 20
S 21	7 58 57	0≈27'40	5≈53	14°50	29°22	1°22	4° 1	12°45	10°22	15°28	16°38	7°12	8°50	21°43	10° 4	S 21
S 22	8 2 53	1°28'42	18° 6	14°30	0≈38	2° 1	3°55	12°48	10°21	15°27	16°37	7° 8	8°47	21°50	10° 8	S 22
M23	8 6 50	2°29'43	0 ∺ 9	14° 0	1°53	2°40	3°49	12°51	10°21	15°27	16°36	7° 7	8°43	21°56	10°11	M23
T 24	8 10 46	3°30'43	12° 3	13°18	3° 9	3°19	3°44	12°54	10°20	15°27	16°35	7°D 6	8°40	22° 3	10°14	T 24
W25	8 14 43	4°31'42	23°52	12°27	4°24	3°57	3°38	12°57	10°20	15°27	16°34	7° 8	8°37	22°10	10°17	W25
T 26	8 18 40	5°32'40	5 Ƴ 39	11°27	5°39	4°36	3°31	12°59	10°19	15°D27	16°33	7° 9	8°34	22°16	10°21	T 26
F 27	8 22 36	6°33'36	17°28	10°21	6°55	5°15	3°25	13° 2	10°19	15°27	16°32	7°11	8°31	22°23	10°24	F 27
S 28	8 26 33	7°34'31	29°25	9°10	8°10	5°54	3°19	13° 4	10°18	15°27	16°31	7°13	8°28	22°29	10°27	S 28
S 29	8 30 29	8°35'25	11834	7°56	9°25	6°33	3°12	13° 7	10°17	15°27	16°30	7°R13	8°24	22°36	10°31	S 29
M30	8 34 26	9°36'18	24° 1	6°42	10°41	7°12	3° 6	13° 9	10°16	15°27	16°28	7°12	8°21	22°43	10°34	M30
T 31	8 38 22	10≈37'09	6 Ⅱ 49	5≈30	11≈56	7 ,₹ 51	2 m 59	13 M .12	10 ≏ 16	15 8 28	16 M 27	7 m 10	8 m /18	22) (49	10 ∺ 38	T 31

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
S 1 M 2	23 s 5 23 0		23 s17 2 s 1 22 56 1 5			10n38 1n 8 10 39 1 8			14n48 1 s49 14 48 1 49		8n17 7n52 8 19 7 53		3 s 38 4 n 5 2 3 38 4 5 2
T 3 W 4	22 55 22 49		22 34 1 5 22 11 1 5			10 40 1 8 10 41 1 8			14 48 1 49 14 48 1 49		8 21 7 55 8 25 7 56		3 37 4 52 3 36 4 51
T 5 F 6	22 36	18 46 4 21	21 20 1 3	8 23 33 0 30	17 35 0 38	10 42 1 9 10 44 1 9	13 11 2 19	3 27 0 42	14 48 1 48 14 48 1 48	18 58 15 0	8 28 7 57 8 32 7 58	4 48	3 35 4 51
S 7 S 8			20 52 1 3 20 24 1 2				13 13 2 19 13 14 2 19			18 59 15 0 18 59 15 1	8 35 7 59 8 37 8 1	4 46 4 45	
M 9 T 10	22 5	8 41 0 1	19 26 1		18 16 0 36	10 50 1 10	13 15 2 19 13 16 2 20	3 28 0 42	14 47 1 48 14 47 1 48	19 1 15 2	8 38 8 2 8 39 8 3	4 41	3 32 4 50
W11 T 12 F 13	21 56 21 47 21 37	0s16 2 28		2 22 58 0 43	18 36 0 35	10 53 1 10	13 17 2 20 13 18 2 20 13 19 2 20	3 28 0 43	14 47 1 48 14 47 1 48 14 47 1 48	19 2 15 3	8 38 8 4 8 38 8 5 8 38 8 7	4 37	3 31 4 50 3 30 4 49 3 29 4 49
S 14 S 15	21 27	8 56 4 19	17 26 0 1		18 55 0 34	10 56 1 11	13 20 2 20 13 21 2 21	3 28 0 43	14 47 1 48 14 47 1 48	19 3 15 4	8 38 8 8	4 34	3 29 4 49
M16 T 17	21 6	15 28 5 8		5 22 20 0 51		11 0 1 11		3 28 0 43	14 47 1 48 14 47 1 48 14 47 1 48	19 5 15 4	8 40 8 10 8 43 8 11	4 30	
W18 T 19		18 44 4 19	15 41 0 4 15 20 1	6 21 44 0 56		11 6 1 12	13 24 2 21 13 24 2 21	3 27 0 43	14 47 1 48 14 47 1 48	19 7 15 6	8 45 8 13 8 48 8 14	4 24	3 24 4 48
F 20 S 21		17 54 3 35 16 13 2 42					13 25 2 22 13 26 2 22		14 47 1 48 14 47 1 48		8 51 8 15 8 53 8 16		3 23 4 47 3 22 4 47
S 22 M23	19 38	10 51 0 38	14 27 2 1	8 20 48 1 3	20 15 0 28	11 15 1 13	13 27 2 22 13 27 2 22	3 27 0 43	14 47 1 47 14 47 1 47	19 10 15 7	8 54 8 17 8 55 8 19	4 17	3 20 4 47
T 24 W25 T 26	19 24 19 9 18 55	3 50 1 31	14 23 2 3 14 23 2 5 14 26 3	0 20 16 1 6	20 32 0 27	11 20 1 13	13 28 2 23 13 29 2 23 13 29 2 23	3 26 0 43	14 47 1 47 14 47 1 47 14 47 1 47	19 12 15 8	8 55 8 20 8 54 8 21 8 54 8 22	4 13	3 18 4 46
F 27 S 28	18 40 18 24	3n44 3 24		5 19 41 1 9	20 47 0 26	11 25 1 14	13 29 2 23 13 30 2 23 13 30 2 23	3 26 0 43	14 47 1 47 14 47 1 47 14 47 1 47	19 13 15 9	8 54 8 22 8 53 8 23 8 53 8 25	4 10	3 16 4 46
S 29 M30	18 8	10 49 4 44	14 53 3 3:	2 19 5 1 12	21 2 0 24	11 30 1 14	13 31 2 24 13 31 2 24	3 25 0 43	14 47 1 47	19 15 15 10	8 52 8 26 8 53 8 27	4 6	3 14 4 45
T 31							13 s32 2n24			19n17 15n10	8n54 8n28		

Julian Day Number = 2348911.5, Delta T = 10.50 sec Ecliptic obliquity = $23^{\circ}28'24$, Nutation = - $0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}49'03$, Lahiri = $19^{\circ}56'04$ Greg. Calendar

FEBRUARY 1719 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ)ұ(并	В	V	ນ	Ç	Ŷ,	Day
W 1	8 42 19	11≈37'58	20耳 2	4°R21	13≈11	8 ₹ 29	2°R52	13 M .14	10°R15	15 8 28	16°R26	7°R 6	8 m)15	22) 56	10) 41	W 1
T 2	8 46 15	12°38'47	39543	3≈17	14°26	9° 8	2 Mp 45	13°16	10 ⊆ 14	15°28	16 m 25	7 m) 3	8°12	23° 3	10°45	T 2
F 3	8 50 12	13°39'34	17°49	2°20	15°42	9°47	2°38	13°18	10°13	15°28	16°23	6°59	8° 9	23° 9	10°48	F 3
S 4	8 54 9	14°40'19	2 Ω 18	1°30	16°57	10°26	2°31	13°20	10°12	15°28	16°22	6°56	8° 5	23°16	10°52	S 4
S 5	8 58 5	15°41'04	17° 5	0°47	18°12	11° 5	2°24	13°21	10°11	15°29	16°21	6°54	8° 2	23°23	10°55	S 5
M 6	9 2 2	16°41'46	2 Mp 1	0°13	19°27	11°43	2°16	13°23	10° 9	15°29	16°20	6°D53	7°59	23°29	10°59	M 6
T 7	9 5 58	17°42'28	16°59	29 궁 47	20°43	12°22	2° 9	13°24	10° 8	15°30	16°18	6°53	7°56	23°36	11° 2	T 7
W 8	9 9 5 5	18°43'08	1 ≏ 50	29°29	21°58	13° 1	2° 1	13°26	10° 7	15°30	16°17	6°54	7°53	23°43	11° 6	W 8
T 9	9 13 51	19°43'48	16°28	29°18	23°13	13°40	1°54	13°27	10° 6	15°30	16°15	6°55	7°49	23°49	11°10	T 9
F 10	9 17 48	20°44'26	0 M 49	29°D16	24°28	14°19	1°46	13°28	10° 4	15°31	16°14	6°57	7°46	23°56	11°13	F 10
S 11	9 21 44	21°45'03	14°50	29°20	25°43	14°57	1°39	13°30	10° 3	15°32	16°13	6°57	7°43	24° 3	11°17	S 11
S 12	9 25 41	22°45'38	28°31	29°31	26°58	15°36	1°31	13°31	10° 2	15°32	16°11	6°R57	7°40	24° 9	11°21	S 12
M13	9 29 38	23°46'13	11 .7 51	29°48	28°14	16°15	1°23	13°32	10° 0	15°33	16°10	6°57	7°37	24°16	11°24	M13
T 14	9 33 34	24°46'46	24°54	0≈12	29°29	16°54	1°15	13°32	9°59	15°33	16° 8	6°56	7°34	24°23	11°28	T 14
W15	9 37 31	25°47'19	7 궁 41	0°40	0) 44	17°33	1° 8	13°33	9°57	15°34	16° 7	6°54	7°30	24°29	11°32	W15
T 16	9 41 27	26°47'49	20°13	1°13	1°59	18°11	1° 0	13°34	9°55	15°35	16° 5	6°52	7°27	24°36	11°36	T 16
F 17	9 45 24	27°48'19	2≈33	1°51	3°14	18°50	0°52	13°34	9°54	15°35	16° 4	6°51	7°24	24°42	11°39	F 17
S 18	9 49 20	28°48'46	14°43	2°33	4°29	19°29	0°44	13°35	9°52	15°36	16° 2	6°50	7°21	24°49	11°43	S 18
S 19	9 53 17	29°49'13	26°45	3°19	5°44	20° 8	0°36	13°35	9°50	15°37	16° 1	6°50	7°18	24°56	11°47	S 19
M20	9 57 13	0)(49'37	8)(40	4° 9	6°59	20°46	0°28	13°35	9°48	15°38	15°59	6°D49	7°15	25° 2	11°51	M20
T 21	10 110	1°50'00	20°30	5° 2	8°14	21°25	0°20	13°R35	9°47	15°39	15°58	6°50	7°11	25° 9	11°55	T 21
W22	10 5 6	2°50'21	2 Υ 17	5°58	9°29	22° 4	0°12	13°35	9°45	15°40	15°56	6°50	7° 8	25°16	11°58	W22
T 23	10 9 3	3°50'40	14° 5	6°57	10°44	22°42	0° 5	13°35	9°43	15°41	15°55	6°50	7° 5	25°22	12° 2	T 23
F 24	10 13 0	4°50'57	25°56	7°58	11°59	23°21	29 Ω 57	13°35	9°41	15°42	15°53	6°51	7° 2	25°29	12° 6	F 24
S 25	10 16 56	5°51'12	7 8 54	9° 2	13°14	23°59	29°49	13°35	9°39	15°43	15°52	6°51	6°59	25°36	12°10	S 25
S 26	10 20 53	6°51'26	20° 2	10° 9	14°29	24°38	29°41	13°34	9°37	15°44	15°50	6°R51	6°55	25°42	12°14	S 26
M27	10 24 49	7°51'37	2П26	11°17	15°44	25°17	29°33	13°34	9°35	15°45	15°48	6°D51	6°52	25°49	12°18	M27
T 28	10 28 46	8): 51'46	15 Ⅱ 9	12≈28	16 米 59	25 ₹ 55	29 Ω 26	13 M 33	9 <u>Ω</u> 33	15 8 46	15 M p47	6 M 51	6 m 49	25 米 56	12 米 21	T 28

Day	0	,)	ζ	5	ς	2	ď	7	2	+	ħ	l.) į	(ř	7	Е	<u> </u>	R	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
W 1	17 s19	-		15 s39		18s 6		21 s23		11n38			2n24	3 s24		14n47		19n17	-	8n55	8n29	4s 1	3 s11 4n45
T 2	17 2			15 56				21 30		11 40		13 33	2 25	3 24	0 43	-		19 18		8 56	8 31	3 59	3 9 4 45
F 3	16 45			16 13				21 36		11 43		13 33	2 25	3 23		14 48	1 47		-	8 58	8 32	3 57	3 8 4 44
S 4	16 27	16 46	3 0	16 30	3 27	17 2	1 19	21 43	0 20	11 46	1 15	13 33	2 25	3 23	0 43	14 48	1 47	19 20	15 12	8 59	8 33	3 55	3 7 4 44
S 5	16 9	14 2	1 47	16 46	3 19	16 40	1 20	21 49	0 19	11 49	1 16	13 34	2 25	3 22	0 43	14 48	1 47	19 21	15 12	8 59	8 34	3 53	3 6 4 44
M 6	15 51	10 21	0 27	17 2	3 10	16 17	1 21	21 55	0 18	11 51	1 16	13 34	2 25	3 22	0 43	14 48	1 47	19 21	15 12	9 0	8 35	3 51	3 5 4 44
T 7	15 33	6 0	0n56	17 17	3 0	15 54	1 22	22 1	0 18	11 54	1 16	13 34	2 26	3 21	0 43	14 48	1 46	19 22	15 13	9 0	8 36	3 49	3 4 4 44
W 8	15 14	1 19	2 14	17 32	2 49	15 30	1 22	22 7	0 17	11 57	1 16	13 34	2 26	3 21	0 43	14 49	1 46	19 23	15 13	8 59	8 38	3 48	3 2 4 44
T 9	14 55	3 s22	3 22	17 45	2 38	15 6	1 23	22 12	0 16	12 0	1 16	13 35	2 26	3 20	0 43	14 49	1 46	19 24	15 13	8 59	8 39	3 46	3 1 4 43
F 10	14 36	7 46	4 16	17 57	2 26	14 42	1 24	22 18	0 15	12 3	1 16	13 35	2 26	3 20	0 44	14 49	1 46	19 25	15 13	8 58	8 40	3 44	3 0 4 43
S 11	14 17	11 38	4 54	18 8	2 14	14 17	1 24	22 23	0 14	12 6	1 16	13 35	2 27	3 19	0 44	14 49	1 46	19 25	15 14	8 58	8 41	3 42	2 59 4 43
S 12	13 57	14 45	5 14	18 18	2 2	13 52	1 25	22 28	0 14	12 9	1 17	13 35	2 27	3 19	0 44	14 49	1 46	19 26	15 14	8 58	8 42	3 40	2 57 4 43
M13	13 37	17 1	5 16	18 26	1 50	13 27	1 25	22 33	0 13	12 11	1 17	13 35	2 27	3 18	0 44	14 50	1 46	19 27	15 14	8 58	8 44	3 38	2 56 4 43
T 14	13 17	18 21	5 2	18 33	1 37	13 1	1 26	22 38	0 12	12 14	1 17	13 35	2 27	3 17	0 44	14 50	1 46	19 28	15 15	8 59	8 45	3 36	2 55 4 43
W15	12 56	18 43	4 33	18 39	1 25	12 34	1 26	22 42	0 11	12 17	1 17	13 35	2 27	3 17	0 44	14 50	1 46	19 29	15 15	8 59	8 46	3 35	2 54 4 43
T 16	12 36	18 8	3 51	18 44	1 13	12 8	1 26	22 47	0 10	12 20	1 17	13 35	2 28	3 16	0 44	14 50	1 46	19 29	15 15	9 0	8 47	3 33	2 52 4 42
F 17	12 15	16 43	2 59	18 47	1 1	11 41	1 27	22 51	0 9	12 23	1 17	13 35	2 28	3 15	0 44	14 51	1 46	19 30	15 15	9 1	8 48	3 31	2 51 4 42
S 18	11 54	14 32	2 0	18 49	0 49	11 14	1 27	22 55	0 8	12 26	1 17	13 35	2 28	3 15	0 44	14 51	1 46	19 31	15 15	9 1	8 49	3 29	2 50 4 42
S 19	11 33	11 45	0 56	18 50	0 38	10 46	1 27	22 59	0 7	12 29	1 17	13 35	2 28	3 14	0 44	14 51	1 46	19 32	15 16	9 1	8 51	3 27	2 48 4 42
M20	11 12	8 30	0s10	18 49	0 27	10 18	1 27	23 3	0 7	12 32	1 17	13 35	2 29	3 13	0 44	14 52	1 46	19 33	15 16	9 1	8 52	3 25	2 47 4 42
T 21	10 50	4 56	1 15	18 47	0 16	9 50	1 27	23 6	0 6	12 35	1 17	13 34	2 29	3 12	0 44	14 52	1 46	19 33	15 16	9 1	8 53	3 23	2 46 4 42
W22	10 29	1 11	2 17	18 43	0 5	9 22	1 27	23 9	0 5	12 37	1 18	13 34	2 29	3 12	0 44	14 52	1 46	19 34	15 16	9 1	8 54	3 21	2 44 4 42
T 23	10 7	2n36	3 13	18 38	0s 5	8 53	1 27	23 13	0 4	12 40	1 18	13 34	2 29	3 11	0 44	14 52	1 45	19 35	15 16	9 1	8 55	3 20	2 43 4 42
F 24	9 45	6 17	4 1	18 32	0 15	8 24	1 26	23 16	0 3	12 43	1 18	13 34	2 30	3 10	0 44	14 53	1 45	19 36	15 17	9 1	8 57	3 18	2 42 4 42
S 25	9 23	9 46	4 39	18 25	0 24	7 55	1 26	23 18	0 2	12 46	1 18	13 33	2 30	3 9	0 44	14 53	1 45	19 36	15 17	9 1	8 58	3 16	2 40 4 41
S 26	9 0	12 53	5 5	18 16	0 33	7 26	1 26	23 21	0 1	12 49	1 18	13 33	2 30	3 9	0 44	14 53	1 45	19 37	15 17	9 1	8 59	3 14	2 39 4 41
M27	8 38	15 29	5 17	18 5	0 42	6 57	1 25	23 24	0s 0	12 51	1 18	13 33	2 30	3 8	0 44	14 54	1 45	19 38	15 17	9 1	9 0	3 12	2 37 4 41
T 28	8s16	17n26	5 s 1 5	17s54	0s51	6 s 2 7	1 s25	$23\mathrm{s}26$	0 s 1	12n54	1n18	13 s32	2n30	3 s 7	0n44	14n54	1 s45	19n39	15n17	9n 1	9n 1	3 s 1 0	2 s 36 4 n 4 1

Julian Day Number = 2348942.5, Delta T = 10.50 sec Ecliptic obliquity = 23°28'24, Nutation = -0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°49'07, Lahiri = 19°56'08Greg. Calendar

MARCH 1719 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)f(¥	Р	Ç	ນ	Ç	Š,	Day
W 1	10 32 42	9) (51'53	28Ⅲ15	13≈40	18): 14	26 × 34	29°R18	13°R32	9°R31	15847	15°R45	6 m 51	6Mp46	26) 2	12) 25	W 1
T 2	10 36 39	10°51'58	119547	14°55	19°28	27°12	29 Ω 10	13 M .32	9 ≙ 29	15°48	15 m 44	6°51	6°43	26° 9	12°29	T 2
F 3	10 40 35	11°52'01	25°46	16°11	20°43	27°51	29° 3	13°31	9°26	15°49	15°42	6°52	6°40	26°16	12°33	F 3
S 4	10 44 32	12°52'01	10 N 11	17°29	21°58	28°29	28°55	13°30	9°24	15°50	15°40	6°52	6°36	26°22	12°37	S 4
S 5	10 48 29	13°52'00	24°59	18°48	23°13	29° 8	28°48	13°29	9°22	15°52	15°39	6°53	6°33	26°29	12°41	S 5
M 6	10 52 25	14°51'56	10 mp 4	20° 9	24°28	29°46	28°41	13°27	9°20	15°53	15°37	6°R53	6°30	26°36	12°45	M 6
T 7	10 56 22	15°51'51	25°17	21°31	25°42	0중25	28°33	13°26	9°17	15°54	15°36	6°53	6°27	26°42	12°48	T 7
W 8	11 0 18	16°51'43	10 ≏ 28	22°55	26°57	1° 3	28°26	13°25	9°15	15°56	15°34	6°52	6°24	26°49	12°52	W 8
T 9	11 4 15	17°51'34	25°27	24°20	28°12	1°42	28°19	13°23	9°13	15°57	15°32	6°51	6°20	26°55	12°56	T 9
F 10	11 8 11	18°51'23	10 M 8	25°47	29°26	2°20	28°12	13°21	9°10	15°58	15°31	6°49	6°17	27° 2	13° 0	F 10
S 11	11 12 8	19°51'10	24°25	27°15	0 Υ 41	2°58	28° 5	13°20	9° 8	16° 0	15°29	6°48	6°14	27° 9	13° 4	S 11
S 12	11 16 4	20°50'56	8 ∡ 15	28°44	1°55	3°37	27°58	13°18	9° 6	16° 1	15°28	6°47	6°11	27°15	13° 8	S 12
M13	11 20 1	21°50'40	21°39	0) 15	3°10	4°15	27°52	13°16	9° 3	16° 3	15°26	6°D46	6° 8	27°22	13°11	M13
T 14	11 23 58	22°50'22	4 る 39	1°47	4°25	4°53	27°45	13°14	9° 1	16° 4	15°24	6°47	6° 5	27°29	13°15	T 14
W15	11 27 54	23°50'03	17°18	3°20	5°39	5°32	27°38	13°12	8°58	16° 6	15°23	6°48	6° 1	27°35	13°19	W15
T 16	11 31 51	24°49'42	29°39	4°55	6°54	6°10	27°32	13°10	8°56	16° 7	15°21	6°49	5°58	27°42	13°23	T 16
F 17	11 35 47	25°49'19	11 ≈ 48	6°31	8° 8	6°48	27°26	13° 8	8°53	16° 9	15°20	6°51	5°55	27°49	13°27	F 17
S 18	11 39 44	26°48'54	23°46	8° 8	9°23	7°26	27°20	13° 5	8°51	16°10	15°18	6°52	5°52	27°55	13°30	S 18
S 19	11 43 40	27°48'27	5) €38	9°46	10°37	8° 5	27°14	13° 3	8°48	16°12	15°17	6°R53	5°49	28° 2	13°34	S 19
M20	11 47 37	28°47'58	17°27	11°26	11°52	8°43	27° 8	13° 0	8°46	16°13	15°15	6°52	5°46	28° 9	13°38	M20
T 21	11 51 33	29°47'27	29°15	13° 7	13° 6	9°21	27° 2	12°58	8°43	16°15	15°13	6°51	5°42	28°15	13°42	T 21
W22	11 55 30	0 Ƴ 46'54	11 ° 3	14°49	14°20	9°59	26°57	12°55	8°41	16°17	15°12	6°48	5°39	28°22	13°45	W22
T 23	11 59 26	1°46'20	22°55	16°33	15°35	10°37	26°51	12°52	8°38	16°19	15°10	6°44	5°36	28°29	13°49	T 23
F 24	12 3 23	2°45'42	4 8 51	18°18	16°49	11°15	26°46	12°49	8°36	16°20	15° 9	6°39	5°33	28°35	13°53	F 24
S 25	12 7 20	3°45'03	16°55	20° 4	18° 3	11°53	26°41	12°46	8°33	16°22	15° 7	6°35	5°30	28°42	13°57	S 25
S 26	12 11 16	4°44'22	29° 9	21°52	19°17	12°31	26°36	12°43	8°30	16°24	15° 6	6°30	5°26	28°49	14° 0	S 26
M27	12 15 13	5°43'38	11 Ⅱ 35	23°41	20°32	13° 9	26°31	12°40	8°28	16°26	15° 4	6°27	5°23	28°55	14° 4	M27
T 28	12 19 9	6°42'52	24°17	25°31	21°46	13°46	26°27	12°37	8°25	16°27	15° 3	6°25	5°20	29° 2	14° 8	T 28
W29	12 23 6	7°42'04	79917	27°23	23° 0	14°24	26°22	12°34	8°23	16°29	15° 1	6°D24	5°17	29° 9	14°11	W29
T 30	12 27 2	8°41'13	20°40	29°16	24°14	1 <u>5°</u> 2	26°18	12°31	8°20	16°31	15° 0	6°25	5°14	29°15	14°15	T 30
F 31	12 30 59	9 Υ 40'20	4Ω 27	1 Υ 10	25 Y 28	15 る 40	26 Ω 14	12 M 27	8 ≏ 17	16 8 33	14 M 59	6Mp26	5 m) 11	29 米 22	14 米 18	F 31

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	decl	decl lat	decl lat	decl lat dec	lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl	decl	decl lat
W 1 T 2	7 s53 7 30	18n31 4s56 18 37 4 21	17 s41 0 s59 17 27 1 6	5 s 5 7 1 s 2 4 2 3 s 2 5 2 7 1 2 3 2 3 3 3		12n57 1n13 13 0 1 13		3 s 6 0n44 3 5 0 44			9n 1 9 0	9n 2 9 4	3s 8 3 6	2 s 3 5 4 n 4 1 2 3 3 4 4 1
F 3 S 4	7 7 6 44	17 35 3 29 15 25 2 23	1	4 57 1 23 23 3 4 27 1 22 23 3		13 2 1 13 13 5 1 13		3 4 0 44 3 3 0 44			9 0 9 0	9 5 9 6	3 5 3 3	2 32 4 41 2 30 4 41
S 5 M 6	6 21 5 58	8 5 0n18			0 8	13 10 1 1	3 13 30 2 31 3 13 29 2 32		14 57 1 45	19 43 15 18	9 0	-	3 1 2 59	2 29 4 41 2 28 4 41
T 7 W 8 T 9	5 35 5 12 4 48	3 25 1 41 1s27 2 56 6 9 3 58	15 55 1 39 15 33 1 45 15 9 1 50	2 25 1 18 23 3	0 10		3 13 29 2 32 3 13 28 2 32 3 13 27 2 32	3 0 0 44	14 57 1 45	19 44 15 18	9 0 9 0 9 1	9 11	2 57 2 55 2 53	2 26 4 41 2 25 4 41 2 23 4 41
F 10 S 11	-		14 44 1 54 14 18 1 59				3 13 27 2 33 3 13 26 2 33		14 58 1 45 14 59 1 45		9 1 9 2	-	2 51 2 49	2 22 4 41 2 20 4 41
S 12 M13 T 14	3 38 3 14 2 51	16 30 5 17 18 7 5 7 18 43 4 41	13 50 2 2 13 22 2 6 12 52 2 9		0 16		3 13 25 2 33			19 48 15 18	9 2 9 2 9 2	9 15 9 17 9 18	2 482 462 44	2 19 4 41 2 18 4 41 2 16 4 41
W15 T 16 F 17	2 27 2 3 1 40	18 22 4 1 17 7 3 12 15 7 2 14	11 14 2 15	1 11 1 10 23 3 1 42 1 8 23 3 2 13 1 7 23 3	0 19 0 20	13 34 1 13 13 36 1 13	3 13 22 2 34 3 13 21 2 34	2 53 0 44 2 52 0 44 2 51 0 44	15 1 1 44 15 2 1 44	19 49 15 18 19 50 15 18 19 50 15 18	9 2 9 1 9 1	9 20 9 21	2 42 2 40 2 38	2 15 4 41 2 13 4 41 2 12 4 41
S 18 S 19	1 16 0 52	12 29 1 12 9 21 0 7	10 38 2 16 10 2 2 17	2 43 1 5 23 3 3 14 1 4 23 3		13 38 1 13 13 40 1 13	3 13 20 2 34 3 13 20 2 34				9 0	9 229 24	2 362 34	2 10 4 41 2 9 4 41
M20 T 21 W22	0 29 0 5 0n19	5 51 0s58 2 8 2 0 1n39 2 57		3 45 1 2 23 3 4 15 1 0 23 3 4 46 0 58 23 3	0 25		7 13 19 2 34 7 13 18 2 35 7 13 17 2 35	2 47 0 44	15 4 1 44	19 52 15 18 19 52 15 18 19 53 15 18	9 0 9 1 9 2	9 25 9 26 9 27	2 32 2 31 2 29	2 8 4 41 2 6 4 41 2 5 4 41
T 23 F 24 S 25	0 42 1 6 1 30	5 24 3 47 8 58 4 27 12 11 4 55	7 24 2 16 6 41 2 14 5 58 2 12	5 16 0 57 23 3 5 47 0 55 23 2	0 28 0 29	13 47 1 1° 13 49 1 1°	7 13 16 2 35 7 13 15 2 35 7 13 14 2 35	2 44 0 44	15 5 1 44	19 54 15 18	9 3 9 5 9 7	9 28 9 29 9 31	2 27 2 25 2 23	2 3 4 41 2 2 4 41 2 0 4 41
S 26 M27		14 56 5 11	5 13 2 10	6 47 0 51 23 2	0 32	13 52 1 1	7 13 14 2 33 7 13 13 2 35 7 13 12 2 36	2 42 0 44	15 6 1 44	19 55 15 17	9 8	9 32	2 21 2 19	1 59 4 41 1 58 4 41
T 28 W29	2 40 3 4	18 23 4 59 18 47 4 29	3 40 2 3 2 52 1 59	7 46 0 47 23 2 8 16 0 45 23 1	0 35 0 36	13 55 1 1° 13 57 1 1°	7 13 10 2 36 7 13 9 2 36	2 40 0 44 2 39 0 44	15 7 1 44 15 8 1 44	19 56 15 17 19 57 15 17	9 10 9 10	9 34 9 35	2 17 2 15	1 56 4 41 1 55 4 41
T 30 F 31	3 27 3n50	18 11 3 45 16n29 2s46				13 58 1 1' 13n59 1n10	7 13 8 2 36 5 13 8 2 n36		15 9 1 44 15n 9 1 s44				2 13 2s11	1 53 4 41 1 s52 4n41

Julian Day Number = 2348970.5, Delta T = 10.50 sec Ecliptic obliquity = $23^{\circ}28'25$, Nutation = - $0^{\circ}00'06$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}49'11$, Lahiri = $19^{\circ}56'12$ Greg. Calendar

APRIL 1719 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(并	Р	n	v	Ç	ķ	Day
S 1	12 34 55	10 Y 39'25	18 Ω 39	3Υ 6	26 Y 42	16 궁 17	26°R10	12°R24	8°R15	16 8 35	14°R57	6Mp28	5 m 7	29 米 29	14) 22	S 1
S 2	12 38 52	11°38'27	3 m 15	5° 3	27°56	16°55	26 Ω 6	12 M 20	8 ≏ 12	16°37	14 Mp 56	6°R28	5° 4	29°35	14°25	S 2
M 3	12 42 49	12°37'27	18°11	7° 2	29°10	17°32	26° 2	12°17	8°10	16°39	14°54	6°28	5° 1	29°42	14°29	M 3
T 4	12 46 45	13°36'25	3 ₾ 20	9° 2	0824	18°10	25°59	12°13	8° 7	16°41	14°53	6°26	4°58	29°49	14°32	T 4
W 5	12 50 42	14°35'21	18°34	11° 3	1°38	18°47	25°56	12° 9	8° 5	16°43	14°52	6°22	4°55	29°55	14°36	W 5
T 6	12 54 38	15°34'14	3 M .42	13° 5	2°52	19°25	25°52	12° 6	8° 2	16°45	14°50	6°17	4°52	0 Υ 2	14°39	T 6
F 7	12 58 35	16°33'06	18°35	15° 8	4° 6	20° 2	25°50	12° 2	7°59	16°47	14°49	6°11	4°48	0° 9	14°43	F 7
S 8	13 231	17°31'56	3 ∡ 7 4	17°13	5°20	20°40	25°47	11°58	7°57	16°49	14°48	6° 5	4°45	0°15	14°46	S 8
S 9	13 6 28	18°30'44	17° 6	19°18	6°34	21°17	25°44	11°54	7°54	16°51	14°46	6° 0	4°42	0°22	14°49	S 9
M10	13 10 24	19°29'31	0 궁 38	21°24	7°48	21°54	25°42	11°50	7°52	16°53	14°45	5°56	4°39	0°28	14°53	M10
T 11	13 14 21	20°28'16	13°42	23°30	9° 1	22°31	25°40	11°46	7°49	16°55	14°44	5°54	4°36	0°35	14°56	T 11
W12	13 18 18	21°26'59	26°22	25°37	10°15	23° 8	25°38	11°42	7°47	16°57	14°43	5°D54	4°32	0°42	14°59	W12
T 13	13 22 14	22°25'40	8 ≈ 41	27°43	11°29	23°45	25°36	11°38	7°44	16°59	14°41	5°55	4°29	0°48	15° 3	T 13
F 14	13 26 11	23°24'20	20°45	29°50	12°43	24°22	25°34	11°34	7°42	17° 1	14°40	5°57	4°26	0°55	15° 6	F 14
S 15	13 30 7	24°22'58	2 ∺ 39	1856	13°56	24°59	25°33	11°30	7°39	17° 3	14°39	5°R57	4°23	1° 2	15° 9	S 15
S 16	13 34 4	25°21'34	14°27	4° 1	15°10	25°36	25°31	11°25	7°37	17° 5	14°38	5°57	4°20	1° 8	15°12	S 16
M17	13 38 0	26°20'08	26°14	6° 5	16°23	26°13	25°30	11°21	7°35	17° 7	14°37	5°55	4°17	1°15	15°15	M17
T 18	13 41 57	27°18'41	8 Y 2	8° 8	17°37	26°50	25°29	11°17	7°32	17° 9	14°36	5°50	4°13	1°22	15°18	T 18
W19	13 45 53	28°17'12	19°54	10° 8	18°50	27°26	25°29	11°12	7°30	17°11	14°35	5°43	4°10	1°28	15°21	W19
T 20	13 49 50	29°15'41	1 8 52	12° 7	20° 4	28° 3	25°28	11°8	7°27	17°14	14°34	5°34	4° 7	1°35	15°24	T 20
F 21	13 53 46	0814'08	13°59	14° 3	21°17	28°39	25°28	11° 4	7°25	17°16	14°33	5°24	4° 4	1°42	15°27	F 21
S 22	13 57 43	1°12'33	26°14	15°57	22°31	29°16	25°D28	10°59	7°23	17°18	14°32	5°14	4° 1	1°48	15°30	S 22
S 23	14 1 40	2°10'56	8耳39	17°48	23°44	29°52	25°28	10°55	7°20	17°20	14°31	5° 4	3°57	1°55	15°33	S 23
M24	14 5 36	3° 9'17	21°16	19°35	24°58	0≈28	25°28	10°50	7°18	17°22	14°30	4°56	3°54	2° 2	15°36	M24
T 25	14 9 33	4° 7'37	499 5	21°19	26°11	1° 4	25°28	10°46	7°16	17°25	14°29	4°49	3°51	2° 8	15°39	T 25
W26	14 13 29	5° 5'54	17° 9	22°59	27°24	1°40	25°29	10°41	7°14	17°27	14°28	4°46	3°48	2°15	15°42	W26
T 27	14 17 26	6° 4'09	$0\Omega_{29}$	24°36	28°37	2°16	25°30	10°37	7°12	17°29	14°27	4°D44	3°45	2°22	15°44	T 27
F 28	14 21 22	7° 2'22	14° 8	26° 9	29°51	2°52	25°31	10°32	7°10	17°31	14°26	4°44	3°42	2°28	15°47	F 28
S 29	14 25 19	8° 0'33	28° 7	27°38	1 I I 4	3°28	25°32	10°28	7° 7	17°33	14°25	4°R45	3°38	2°35	15°50	S 29
S 30	14 29 15	8 8 58'42	12 m 27	29 8 3	2 П 17	4≈ 3	25⋒33	10ML23	7 ♀ 5	17 8 36	14 m 25	4 Mp 45	3 m 35	2 Υ 42	15 ¥ 52	S 30

Day	0	D	ζ	5	Q	♂	2	4	Ť	ì);	ξ(ħ		Р	ß	v	Ç	ķ	
	decl	decl lat	decl	lat dec	l lat de	cl lat	decl	lat	decl	lat	decl	lat	decl lat	dec	lat	decl	decl	decl	decl lat	
S 1	4n13	13n44 1 s	s36 0s21	1 s44 9n4	3 0s38 23s	9 0s41	14n 1	1n16	13 s 6	2n36	2 s36	0n44	15n10 1s4	4 19n5	3 15n17	9n 9	9n39	2 s 1 0	1 s50 4n	n41
S 2	4 37	10 3 0	18 0n31	1 38 10 1	2 0 36 23	6 0 42	14 2	1 16	13 5	2 36	2 35	0 44	15 10 1 4	4 19 5	3 15 16	9 9	9 40	2 8	1 49 4	41
M 3	5 0	5 39 1r	n 4 1 24	1 31 10 4	0 34 23	3 0 44	14 3	1 16	13 4	2 36	2 34	0 44	15 11 1 4	4 19 5	15 16	9 9	9 41	2 6	1 48 4	41
T 4	5 23	0 50 2	21 2 18	1 24 11	9 0 31 22		14 4	1 16	13 2	2 37	2 33	0 44	15 11 1 4	4 19 5	15 16	9 10	9 42	2 4	1 46 4	41
W 5	5 46		29 3 12	1 16 11 3			14 5	1 16	13 1	2 37	2 32	0 44	15 12 1 4	-	15 16	9 11	9 43	2 2	1 45 4	41
T 6	6 8		22 4 8	-	4 0 26 22		-				2 31	-	15 13 1 4	-	15 16	9 13	9 45	2 0	-	41
F 7			56 5 3	1 0 12 3	1 -	-	14 7		12 59	2 37	2 30	-			15 16	9 16	9 46	1 58		41
S 8	6 54	15 44 5	10 5 59	0 51 12 5	9 0 22 22	14 0 51	14 8	1 16	12 57	2 37	2 29	0 44	15 14 1 4	3 20	15 15	9 18	9 47	1 56	1 41 4	41
S 9	7 16	17 48 5	5 6 56	0 41 13 2	0 19 22	10 0 53	14 8	1 15	12 56	2 37	2 28	0 44	15 14 1 4	3 20	1 15 15	9 20	9 48	1 54	1 39 4	42
M10	7 38	18 46 4	42 7 52	0 31 13 5	2 0 17 22	35 0 55	14 9	1 15	12 55	2 37	2 27	0 44	15 15 1 4	3 20	1 15 15	9 21	9 49	1 52	1 38 4	42
T 11	8 0	18 42 4	6 8 49	0 21 14 1	8 0 14 22	31 0 56	14 10	1 15	12 53	2 37	2 26	0 44	15 16 1 4	3 20	1 15 15	9 22	9 50	1 50	1 37 4	42
W12	8 23	17 40 3	18 9 45	0 11 14 4	4 0 12 22	26 0 58	14 10	1 15	12 52	2 37	2 25	0 44	15 16 1 4	3 20	2 15 14	9 22	9 52	1 48	1 35 4	42
T 13	8 44	15 49 2	22 10 41	0 0 15	9 0 9 22	22 1 (14 11	1 15	12 51	2 37	2 24	0 44	15 17 1 4	3 20	2 15 14	9 21	9 53	1 47	1 34 4	42
F 14	9 6	13 19 1	21 11 36	0n11 15 3	4 0 6 22	17 1 1	14 11	1 15	12 50	2 37	2 23	0 44	15 17 1 4	3 20	2 15 14	9 21	9 54	1 45	1 33 4	42
S 15	9 28	10 16 0	18 12 30	0 22 15 5	9 0 4 22	12 1 3	14 12	1 15	12 48	2 38	2 22	0 44	15 18 1 4	3 20	2 15 14	9 20	9 55	1 43	1 31 4	42
S 16	9 49	6 50 0s	s46 13 23	0 33 16 2	3 0 1 22	7 1 5	14 12	1 14	12 47	2 38	2 21	0 44	15 19 1 4	3 20	3 15 13	9 21	9 56	1 41	1 30 4	42
M17	10 11	3 9 1	47 14 15	0 44 16 4	7 On 1 22	2 1 7	14 12	1 14	12 45	2 38	2 20	0 44	15 19 1 4	3 20	3 15 13	9 21	9 57	1 39	1 29 4	42
T 18	10 32	0n41 2	44 15 6	0 54 17 1	0 0 4 21	56 1 8	14 12	1 14	12 44	2 38	2 19	0 44	15 20 1 4	3 20	3 15 13	9 23	9 59	1 37	1 27 4	42
W19	10 53	4 29 3	34 15 54	1 5 17 3	3 0 7 21	51 1 10	14 12	1 14	12 43	2 38	2 18	0 44	15 21 1 4	3 20	3 15 13	9 26	10 0	1 35	1 26 4	43
T 20	11 14	8 9 4	15 16 41	1 15 17 5			14 12	1 14	12 41	2 38	2 17	0 44	15 21 1 4		3 15 12	9 29	10 1	1 33	1 25 4	43
F 21	11 34	-	44 17 26	1 25 18 1			14 12		12 40	2 38	2 17				3 15 12	9 33		1 31		43
S 22	11 55	14 27 5	1 18 9	1 35 18 4	0 15 21	34 1 16	14 12	1 14	12 39	2 38	2 16	0 44	15 22 1 4	3 20	15 12	9 36	10 3	1 29	1 22 4	43
S 23	12 15	16 46 5	4 18 49	1 44 19	1 0 17 21	28 1 18	14 12	1 13	12 37	2 38	2 15	0 44	15 23 1 4	3 20	1 15 12	9 40	10 4	1 27	1 21 4	43
M24	12 35	18 19 4	53 19 27	1 52 19 2	0 20 21	22 1 20	14 12	1 13	12 36	2 38	2 14	0 44	15 24 1 4	3 20	4 15 11	9 43	10 5	1 25	1 20 4	43
T 25	12 55	18 58 4	27 20 3	2 0 19 4	0 23 21	16 1 21	14 12	1 13	12 34	2 38	2 13	0 44	15 24 1 4	3 20	4 15 11	9 45	10 7	1 23	1 19 4	43
W26	13 14	18 38 3	46 20 36	2 7 20	0 25 21	10 1 23	14 11	1 13	12 33	2 38	2 12	0 44	15 25 1 4	3 20	4 15 11	9 47	10 8	1 21	1 17 4	43
T 27	13 34		52 21 7				14 11		12 32	2 38	2 11	0 44	15 26 1 4	-	15 10	9 47	10 9	1 19	1 16 4	44
F 28	13 53		48 21 35						12 30	2 38	2 11			-	15 10			1 18	1 15 4	44
S 29	14 12	11 35 0	35 22 0	2 24 20 5	6 0 33 20	51 1 29	14 10	1 12	12 29	2 38	2 10	0 44	15 27 1 4	3 20	15 10	9 47	10 11	1 16	1 14 4	44
S 30	14n31	7n32 0r	n41 22n23	2n28 21n1	4 0n36 20 s	15 1 s31	14n 9	1n12	12 s27	2n38	2s 9	0n44	15n27 1 s4	3 20n	15n 9	9n47	10n12	1 s 1 4	1 s 1 3 4 n	n44

 $\label{eq:Julian Day Number = 2349001.5, Delta T = 10.50 sec} \\ Ecliptic obliquity = 23°28'25, Nutation = -0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°49'16, Lahiri = 19°56'16Greg. Calendar \\ \\$

MAY 1719 00:00 UT

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M 1	14 33 12	9856'49	27 m/ 5	0П23	3耳30	4≈39	25 Ω 35	10°R19	7°R 3	17 8 38	14°R24	4°R43	3 Mp 32	2 Υ 48	15 ¥ 55	M 1
T 2	14 37 9	10°54'53	11 ≏ 57	1°40	4°43	5°14	25°36	10 M .14	7 -≏ 1	17°40	14 m 23	4 m 39	3°29	2°55	15°58	T 2
W 3	14 41 5	11°52'57	26°57	2°52	5°56	5°50	25°38	10°10	6°59	17°42	14°22	4°32	3°26	3° 2	16° 0	W 3
T 4	14 45 2	12°50'58	11 M .56	3°59	7° 9	6°25	25°40	10° 5	6°57	17°45	14°22	4°23	3°23	3°8	16° 3	T 4
F 5	14 48 58	13°48'58	26°44	5° 3	8°22	7° 0	25°42	10° 1	6°55	17°47	14°21	4°13	3°19	3°15	16° 5	F 5
S 6	14 52 55	14°46'56	11 ~ 14	6° 1	9°35	7°35	25°45	9°56	6°54	17°49	14°20	4° 3	3°16	3°22	16° 7	S 6
S 7	14 56 51	15°44'53	25°19	6°55	10°48	8°10	25°47	9°52	6°52	17°51	14°20	3°53	3°13	3°28	16°10	S 7
M 8	15 0 48	16°42'48	8 궁 56	7°45	12° 0	8°45	25°50	9°47	6°50	17°54	14°19	3°46	3°10	3°35	16°12	M 8
T 9	15 4 44	17°40'42	22° 5	8°29	13°13	9°19	25°53	9°43	6°48	17°56	14°19	3°41	3° 7	3°42	16°14	T 9
W10	15 8 41	18°38'35	4≈48	9° 9	14°26	9°54	25°56	9°38	6°46	17°58	14°18	3°39	3° 3	3°48	16°17	W10
T 11	15 12 38	19°36'27	17° 9	9°44	15°39	10°28	25°59	9°34	6°45	18° 0	14°18	3°D38	3° 0	3°55	16°19	T 11
F 12	15 16 34	20°34'17	29°14	10°14	16°51	11° 2	26° 3	9°30	6°43	18° 3	14°17	3°R38	2°57	4° 2	16°21	F 12
S 13	15 20 31	21°32'06	11 米 8	10°40	18° 4	11°36	26° 6	9°25	6°42	18° 5	14°17	3°38	2°54	4° 8	16°23	S 13
S 14	15 24 27	22°29'54	22°56	11° 0	19°17	12°10	26°10	9°21	6°40	18° 7	14°16	3°37	2°51	4°15	16°25	S 14
M15	15 28 24	23°27'41	4 Υ 44	11°16	20°29	12°44	26°14	9°17	6°38	18° 9	14°16	3°33	2°48	4°22	16°27	M15
T 16	15 32 20	24°25'26	16°35	11°26	21°42	13°18	26°18	9°12	6°37	18°12	14°16	3°27	2°44	4°28	16°29	T 16
W17	15 36 17	25°23'11	28°33	11°32	22°54	13°51	26°22	9° 8	6°36	18°14	14°15	3°18	2°41	4°35	16°31	W17
T 18	15 40 13	26°20'54	10840	11°R33	24° 6	14°25	26°27	9° 4	6°34	18°16	14°15	3° 7	2°38	4°42	16°33	T 18
F 19	15 44 10	27°18'36	22°58	11°29	25°19	14°58	26°31	9° 0	6°33	18°18	14°15	2°54	2°35	4°48	16°34	F 19
S 20	15 48 7	28°16'16	5 Ⅱ 29	11°21	26°31	15°31	26°36	8°55	6°31	18°21	14°15	2°40	2°32	4°55	16°36	S 20
S 21	15 52 3	29°13'56	18°11	11° 9	27°44	16° 3	26°41	8°51	6°30	18°23	14°15	2°28	2°29	5° 2	16°38	S 21
M22	15 56 0	0 Ⅱ 11'34	199 5	10°52	28°56	16°36	26°46	8°47	6°29	18°25	14°14	2°17	2°25	5° 8	16°39	M22
T 23	15 59 56	1° 9'11	14°10	10°32	099 8	17° 8	26°51	8°43	6°28	18°27	14°14	2° 8	2°22	5°15	16°41	T 23
W24	16 3 53	2° 6'46	27°27	10° 8	1°20	17°40	26°56	8°39	6°27	18°29	14°14	2° 3	2°19	5°22	16°42	W24
T 25	16 7 49	3° 4'20	10 N 56	9°42	2°32	18°12	27° 2	8°35	6°26	18°32	14°14	2° 0	2°16	5°28	16°44	T 25
F 26	16 11 46	4° 1'52	24°37	9°13	3°44	18°44	27° 8	8°31	6°25	18°34	14°D14	1°59	2°13	5°35	16°45	F 26
S 27	16 15 42	4°59'23	8 m 32	8°42	4°56	19°16	27°13	8°28	6°24	18°36	14°14	1°59	2° 9	5°42	16°47	S 27
S 28	16 19 39	5°56'53	22°40	8° 9	6° 8	19°47	27°19	8°24	6°23	18°38	14°14	1°59	2° 6	5°48	16°48	S 28
M29	16 23 36	6°54'21	7₽ 1	7°36	7°20	20°18	27°25	8°20	6°22	18°40	14°14	1°56	2° 3	5°55	16°49	M29
T 30	16 27 32	7°51'48	21°32	7° 2	8°32	20°49	27°31	8°17	6°21	18°43	14°14	1°52	2° 0	6° 2	16°51	T 30
W31	16 31 29	8 Ⅱ 49'14	6M 9	6 Ⅱ 29	99544	21≈20	27 \Omega 38	8 M 13	6 ₾ 20	18 8 45	14 m) 15	1 m 44	1 m 57	6 ℃ 8	16 ∺ 52	W31

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M 1	14n49	2n56 1r	n56 22n4	44 2n	32 21n31	0n38	20 s38	1 s33	14n 9	1n12	12 s26	2n38	2 s 8	0n44	15n28 1 s4	3 20n	4 15n 9	9n48	10n14	1 s12	1 s 1 2	4n44
T 2	15 7	1 s 5 4 3	5 23	2 2	34 21 47	0 41	20 32	1 35	14 8	1 12	12 25	2 38	2 7	0 44	15 29 1 4	3 20	4 15	9 49	10 15	1 10	1 11	4 44
W 3	15 25	6 39 4	1 23	18 2	35 22 3	0 44	20 25	1 38	14 7	1 12	12 23	2 38	2 7	0 44	15 29 1 4	3 20	4 15	9 52	10 16	1 8	1 9	4 45
T 4	15 43	10 59 4	40 23	31 2	35 22 18	0 46	20 18	1 40	14 6	1 12	12 22	2 38	2 6	0 44	15 30 1 4	3 20	4 15	9 55	10 17	1 6	1 8	4 45
F 5	16 1	14 35 5	0 23 4	42 2	35 22 32	0 49	20 11	1 42	14 5	1 12	12 21	2 38	2 5	0 44	15 31 1 4	3 20	4 15	9 59	10 18	1 4	1 7	4 45
S 6	16 18	17 12 5	0 23	51 2	33 22 46	0 51	20 5	1 44	14 5	1 11	12 19	2 38	2 4	0 43	15 31 1 4	3 20	4 15	7 10 2	10 19	1 2	1 6	4 45
S 7	16 35	18 42 4	42 23	58 2	31 22 59	0 54	19 58	1 46	14 4	1 11	12 18	2 38	2 4	0 43	15 32 1 4	3 20	4 15	7 10 6	10 20	1 0	1 5	4 45
M 8	16 51	19 3 4	8 24	3 2	27 23 11	0 56	19 51	1 48	14 2	1 11	12 17	2 38	2 3	0 43	15 33 1 4	3 20	4 15	5 10 8	10 22	0 58	1 4	4 45
T 9	17 8	18 20 3	22 24	6 2	22 23 23	0 59	19 43	1 51	14 1	1 11	12 15	2 38	2 2	0 43	15 33 1 4	3 20	3 15	5 10 10	10 23	0 56	1 3	4 46
W10	17 24	16 43 2	27 <mark>24</mark>	6 2	17 23 34	1 1	19 36	1 53	14 0	1 11	12 14	2 37	2 2	0 43	15 34 1 4	3 20	3 15	5 10 11	10 24	0 54	1 2	4 46
T 11	17 40	14 21 1	26 <mark>24</mark>	5 2	10 23 45	1 3	19 29	1 55	13 59	1 11	12 13	2 37	2 1	0 43	15 34 1 4	3 20	3 15	5 10 11	10 25	0 52	1 1	4 46
F 12	17 55	11 23 0	23 24	2 2	2 23 55	1 6	19 22	1 57	13 58	1 10	12 11	2 37	2 1	0 43	15 35 1 4	3 20	3 15	5 10 11	10 26	0 50	1 0	4 46
S 13	18 10	8 1 0	s40 23 :	56 1	53 24 4	1 8	19 15	2 0	13 56	1 10	12 10	2 37	2 0	0 43	15 36 1 4	3 20	3 15	5 10 11	10 27	0 48	0 59	4 46
S 14	18 25	4 21 1	41 23 :	50 1	43 24 13	1 10	19 7	2 2	13 55	1 10	12 9	2 37	1 59	0 43	15 36 1 4	3 20	3 15	10 12	10 28	0 46	0 58	4 46
M15	18 40	0 31 2	37 23 4	41 1	32 24 20	1 13	19 0	2 5	13 53	1 10	12 7	2 37	1 59	0 43	15 37 1 4	3 20	2 15	4 10 13	10 30	0 44	0 57	4 47
T 16	18 54	3n21 3	27 23	31 1	20 24 27	1 15	18 53		13 52	1 10	12 6	2 37	1 58	0 43	15 37 1 4	3 20	2 15	3 10 15	10 31	0 43	0 56	4 47
W17	19 8	7 7 4	8 23	19 1	8 24 34	1 17	18 45	2 9	13 50	1 10	12 5	2 37	1 58	0 43	15 38 1 4	3 20	2 15	3 10 19	10 32	0 41	0 55	4 47
T 18	19 22	10 38 4	38 23	5 0	54 24 40	1 19	18 38	2 12	13 49	1 10	12 4	2 37	1 57	0 43	15 39 1 4	3 20	2 15	3 10 23	10 33	0 39	0 54	4 47
F 19	19 35	13 46 4	56 22 3	50 0	39 24 45	1 21	18 31	2 14	13 47	1 9	12 2	2 37	1 57	0 43	15 39 1 4	3 20	1 15	2 10 27	10 34	0 37	0 54	4 47
S 20	19 48	16 20 5	0 22 3	34 0	24 24 49	1 23	18 23	2 17	13 45	1 9	12 1	2 36	1 56	0 43	15 40 1 4	3 20	1 15	2 10 32	10 35	0 35	0 53	4 48
S 21	20 1	18 9 4	49 22	17 0	8 24 52	1 25	18 16	2 19	13 43	1 9	12 0	2 36	1 56	0 43	15 41 1 4	3 20	1 15	1 10 37	10 36	0 33	0 52	4 48
M22	20 13	19 4 4	24 21 3	58 0 s	8 24 55	1 27	18 8	2 22	13 41	1 9	11 59	2 36	1 55	0 43	15 41 1 4	3 20	1 15	1 10 41	10 38	0 31	0 51	4 48
T 23	20 25	19 0 3	44 21 3	38 0	25 24 57		18 1	2 24	13 39	1 9	11 58	2 36	1 55	0 43	15 42 1 4	3 20	0 15	1 10 44	10 39	0 29	0 50	4 48
W24	20 37	17 54 2	52 21	18 0	43 24 59	1 31	17 53	2 27		1 9	11 57	2 36	1 54	0 43	15 42 1 4	3 20	0 15	10 46	10 40	0 27	0 49	4 48
T 25	20 48		49 20 3		0 25 0	1 33			13 35		11 56	2 36	1 54		15 43 1 4	3 20	0 15	10 47	10 41	0 25	0 49	4 49
F 26	20 59	12 43 0	39 20 3	35 1	18 25 0	1 34	17 39		13 33		11 54	2 36	1 54	0 43	15 44 1 4	3 19 5	59 14 59	10 47	10 42	0 23	0 48	4 49
S 27	21 10		n35 20		35 24 59	1 36			13 31		11 53	2 35	1 53		15 44 1 4	3 19 5	59 14 59	10 47	10 43	0 21	0 47	4 49
S 28	21 20	4 33 1	47 19 :	51 1	52 24 57	1 38	17 24	2 38	13 29	1 8	11 52	2 35	1 53	0 43	15 45 1 4	3 19 5	58 14 59	10 47	10 44	0 19	0 47	4 49
M29	21 30	0s 8 2	54 19 3	30 2	9 24 55	1 39	17 16	2 40	13 27	1 8	11 51	2 35	1 53	0 43	15 45 1 4	3 19 5	58 14 5	8 10 48	10 46	0 17	0 46	4 50
T 30	21 39	4 51 3	50 19	8 2	25 24 52	1 41	17 9	2 43	13 25	1 8	11 50	2 35	1 52	0 43	15 46 1 4	3 19 5	58 14 5	10 50	10 47	0 15	0 45	4 50
W31	21n48	9s19 4r	n32 18n4	48 2 s	340 24n49	1n42	17s 2	2 s46	13n22	1n 8	11 s49	2n35	1 s52	0n43	15n46 1 s4	3 19n5	57 14n5	7 10n52	10n48	0s13	0 s45	4n50

Julian Day Number = 2349031.5, Delta T = 10.49 sec Ecliptic obliquity = $23^{\circ}28'25$, Nutation = - $0^{\circ}00'09$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}49'20$, Lahiri = $19^{\circ}56'20$ Greg. Calendar

JUNE 1719 00:00 UT

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T 1	16 35 25	9 Ⅱ 46'39	20 M 46	5°R56	10956	21≈50	27 Ω 44	8°R 9	6°R20	18847	14 Mp 15	1°R35	1 m 54	6 Υ 15	16) 53	T 1
F 2	16 39 22	10°44'03	5 ₹ 15	5 Ⅱ 25	12° 8	22°20	27°51	8M 6	6 ₽ 19	18°49	14°15	1 m) 24	1°50	6°22	16°54	F 2
S 3	16 43 18	11°41'25	19°31	4°56	13°19	22°50	27°58	8° 3	6°18	18°51	14°15	1°12	1°47	6°28	16°55	S 3
S 4	16 47 15	12°38'47	3 ප 26	4°29	14°31	23°20	28° 5	7°59	6°18	18°53	14°16	1° 2	1°44	6°35	16°56	S 4
M 5	16 51 11	13°36'09	16°58	4° 5	15°42	23°49	28°12	7°56	6°17	18°55	14°16	0°54	1°41	6°42	16°57	M 5
T 6	16 55 8	14°33'29	0≈ 5	3°45	16°54	24°18	28°19	7°53	6°17	18°57	14°16	0°48	1°38	6°48	16°58	T 6
W 7	16 59 5	15°30'49	12°48	3°27	18° 5	24°47	28°26	7°50	6°16	18°59	14°17	0°45	1°35	6°55	16°58	W 7
T 8	17 3 1	16°28'09	25°11	3°14	19°17	25°16	28°33	7°47	6°16	19° 1	14°17	0°44	1°31	7° 2	16°59	T 8
F 9	17 6 58	17°25'28	7) €18	3° 5	20°28	25°44	28°41	7°44	6°16	19° 4	14°17	0°D44	1°28	7° 8	17° 0	F 9
S 10	17 10 54	18°22'46	19°14	3° 0	21°39	26°12	28°49	7°41	6°16	19° 6	14°18	0°R44	1°25	7°15	17° 0	S 10
S 11	17 14 51	19°20'04	1 Υ 4	3°D 0	22°51	26°40	28°56	7°38	6°15	19° 8	14°18	0°43	1°22	7°22	17° 1	S 11
M12	17 18 47	20°17'22	12°54	3° 4	24° 2	27° 7	29° 4	7°35	6°15	19°10	14°19	0°41	1°19	7°28	17° 1	M12
T 13	17 22 44	21°14'39	24°48	3°13	25°13	27°34	29°12	7°33	6°15	19°12	14°19	0°36	1°15	7°35	17° 2	T 13
W14	17 26 40	22°11'56	6 8 51	3°26	26°24	28° 1	29°20	7°30	6°D15	19°13	14°20	0°29	1°12	7°42	17° 2	W14
T 15	17 30 37	23° 9'13	19° 6	3°44	27°35	28°27	29°29	7°28	6°15	19°15	14°21	0°20	1° 9	7°48	17° 3	T 15
F 16	17 34 34	24° 6'29	1 Ⅲ 36	4° 6	28°46	28°53	29°37	7°25	6°15	19°17	14°21	0° 9	1° 6	7°55	17° 3	F 16
S 17	17 38 30	25° 3'46	14°21	4°33	29°57	29°18	29°46	7°23	6°15	19°19	14°22	29 Ω 58	1° 3	8° 2	17° 3	S 17
S 18	17 42 27	26° 1'01	27°21	5° 5	1 0 8	29°43	29°54	7°21	6°15	19°21	14°23	29°47	1° 0	8° 8	17° 3	S 18
M19	17 46 23	26°58'17	10936	5°41	2°18	0 ∀ 8	0 Mm 3	7°19	6°16	19°23	14°23	29°38	0°56	8°15	17° 3	M19
T 20	17 50 20	27°55'31	24° 4	6°21	3°29	0°32	0°12	7°17	6°16	19°25	14°24	29°31	0°53	8°22	17° 3	T 20
W21	17 54 16	28°52'46	$7\Omega 42$	7° 6	4°40	0°56	0°21	7°15	6°16	19°27	14°25	29°27	0°50	8°28	17°R 3	W21
T 22	17 58 13	29°50'00	21°30	7°55	5°50	1°20	0°30	7°13	6°17	19°29	14°26	29°25	0°47	8°35	17° 3	T 22
F 23	18 2 10	09547'13	5 m 24	8°48	7° 1	1°43	0°39	7°11	6°17	19°30	14°27	29°D25	0°44	8°42	17° 3	F 23
S 24	18 6 6	1°44'26	19°26	9°45	8°11	2° 6	0°48	7° 9	6°17	19°32	14°27	29°25	0°40	8°49	17° 3	S 24
S 25	18 10 3	2°41'38	3 ₾ 33	10°47	9°21	2°28	0°57	7° 8	6°18	19°34	14°28	29°R26	0°37	8°55	17° 3	S 25
M26	18 13 59	3°38'50	17°45	11°52	10°32	2°49	1° 7	7° 6	6°19	19°36	14°29	29°25	0°34	9° 2	17° 3	M26
T 27	18 17 56	4°36'01	1 M 59	13° 1	11°42	3°11	1°16	7° 5	6°19	19°37	14°30	29°22	0°31	9° 9	17° 2	T 27
W28	18 21 52	5°33'12	16°13	14°15	12°52	3°31	1°26	7° 3	6°20	19°39	14°31	29°17	0°28	9°15	17° 2	W28
T 29	18 25 49	6°30'22	0 ₹ 24	15°32	14° 2	3°52	1°36	7° 2	6°21	19°41	14°32	29°10	0°25	9°22	17° 1	T 29
F 30	18 29 45	79527'33	14 × 28	16耳53	15 Ω 12	4) (11	1 M 45	7 M . 1	6 ₽ 22	19 8 42	14 m /33	29 N 2	0 m 21	9 Υ 29	17) (1	F 30

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T 1 F 2 S 3	22 5	16 17 5	6 18n28 0 18 9 6 17 52	3 8	24 39 1	16 s55 16 47 16 16 40	2 52	13n20 13 18 13 15	1 7	11 s48 11 47 11 47	2n35 2 34 2 34	1 s52 1 52 1 51	0 43	15n47 15 48 15 48			14 57	11 0	10n49 10 50 10 51	0s11 0 9 0 7	0 s44 0 43 0 43	4n50 4 50 4 51
S 4 M 5 T 6 W 7 T 8	22 28 22 35	18 55 3 3 17 38 2 3 15 30 1 3	5 17 36 0 17 22 5 17 10 4 16 59 9 16 51	3 41 3 3 50 3 3 57	24 20 1 4 24 12 1 4 24 4 1 :	16 33 18 16 26 19 16 19 16 16 12 11 16 5	3 0 3 3 3 6	13 13 13 10 13 7 13 5 13 2	1 7 1 7 1 7	-	2 34 2 34 2 34 2 34 2 33	1 51 1 51 1 51 1 51 1 51	0 42 0 42 0 42	15 49 15 49 15 50 15 50 15 51	1 43 1 43 1 43	19 55 19 55 19 54 19 54 19 53	14 55 14 55 14 55	11 10 11 12 11 13	10 54 10 55 10 56	0 5 0 3 0 1 0n 1 0 3	0 42 0 42 0 41 0 41 0 40	4 51 4 51 4 51 4 51 4 52
F 9 S 10	22 53 22 58	9 23 0s3	5 16 45	4 8	23 45 1 :	52 15 58 52 15 52	3 12	12 59 12 56	1 7	11 42 11 42 11 41	2 33 2 33	1 51 1 51 1 51	0 42	15 51 15 52	1 43		14 54	11 14	10 58	0 5 0 7	0 40 0 39	4 52 4 52 4 52
S 11 M12 T 13 W14 T 15 F 16 S 17	23 3 23 7 23 11 23 15 23 18 23 21 23 23	1n58 3 2 5 48 4 9 26 4 3 12 45 4 5 15 34 5	4 16 38 4 16 38 6 16 40 8 16 43 7 16 49 3 16 56 4 17 5	4 15 2 4 15 2 4 13 2 4 11 2 4 8 2	23 12 1 : 22 59 1 : 22 46 1 : 22 33 1 : 22 18 1 :	3 15 45 3 15 39 3 15 32 3 15 32 3 15 26 3 15 20 3 15 13 3 15 7	3 22 3 25 3 28 3 31 3 34	12 54 12 51 12 48 12 45 12 42 12 39 12 36	1 6 1 6 1 6 1 6	11 40 11 39 11 39 11 38 11 38 11 37 11 37	2 32	1 51 1 51 1 51 1 51 1 51 1 51 1 51	0 42 0 42 0 42 0 42 0 42	15 52 15 53 15 53 15 54 15 54 15 55 15 55	1 43 1 43 1 43 1 43 1 43	19 51 19 50 19 50 19 49	14 52 14 52 14 52 14 51 14 51	11 15 11 16 11 19 11 22 11 26	11 1 11 3 11 4 11 5 11 6	0 9 0 11 0 13 0 14 0 16 0 18 0 20	0 39 0 38 0 38 0 38 0 37 0 37 0 37	4 52 4 53 4 53 4 53 4 53 4 53 4 54
M19 T 20 W21 T 22	23 27 23 28	19 14 3 5 18 25 2 5 16 33 1 5 13 42 0 4 10 2 0n3		3 52 2 3 45 2 3 38 2 3 29 2 3 20 2	21 32 1 : 21 16 1 : 20 59 1 : 20 41 1 : 20 23 1 :	55 15 2 55 14 56 55 14 50 64 14 45 64 14 34 64 14 34 63 14 29	3 44 3 47 3 51 3 54 3 57	12 20 12 16	1 5 1 5 1 5 1 5 1 5	11 36 11 36 11 35 11 35 11 34 11 34 11 34	2 31 2 31 2 31 2 30 2 30 2 30 2 30	1 51 1 51 1 51 1 51 1 51 1 52 1 52	0 42 0 42 0 42 0 42 0 42	15 56 15 56 15 57 15 57 15 58 15 58 15 59	1 43 1 44 1 44 1 44 1 44	19 45 19 45	14 50 14 49 14 49 14 49 14 48	11 37 11 39 11 41 11 42 11 42	11 9 11 10 11 12 11 13 11 14	0 22 0 24 0 26 0 28 0 30 0 32 0 34	0 36 0 36 0 36 0 36 0 36 0 35 0 35	4 54 4 54 4 54 4 55 4 55 4 55 4 55
	23 27 23 25 23 24 23 21 23 19 23n16	3 s 2 6 3 4 7 5 5 4 3 11 5 7 4 5 15 1 6 5		2 50 2 39 2 28 2 16	19 25 1 : 19 5 1 : 18 44 1 : 18 23 1 4		4 8 4 11 4 15 4 18	12 6	1 4 1 4 1 4	11 33	2 29 2 29 2 29 2 29 2 28 2n28	1 52 1 52 1 53 1 53 1 53 1 s54	0 42 0 41 0 41 0 41	16 0	1 44 1 44 1 44 1 44	19 41 19 40	14 47 14 47 14 46 14 46	11 42 11 43 11 44 11 47	11 17 11 18 11 19 11 21	0 36 0 38 0 40 0 42 0 44 0n46	0 35 0 35 0 35 0 35 0 35 0 35	4 55 4 56 4 56 4 56 4 56 4 56

Julian Day Number = 2349062.5, Delta T = 10.49 sec Ecliptic obliquity = 23°28'24, Nutation = -0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°49'24, Lahiri = 19°56'24Greg. Calendar

JULY 1719 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(¥	В	S.	v	Ç	Ŗ	Day
S 1	18 33 42	8924'43	28 × 19	18 I I17	16 Ω 22	4 ∺ 31	1 m 55	7°R 0	6 ₽ 22	19844	14 m /34	28°R54	0 m 18	9 Ƴ 35	17°R 0	S 1
S 2	18 37 39	9°21'53	11 る 54	19°46	17°32	4°49	2° 5	6 M 59	6°23	19°46	14°35	28 Ω 47	0°15	9°42	17 ∺ 0	S 2
M 3	18 41 35	10°19'04	25°10	21°18	18°41	5° 8	2°15	6°58	6°24	19°47	14°37	28°41	0°12	9°49	16°59	M 3
T 4	18 45 32	11°16'14	8≈ 7	22°54	19°51	5°25	2°25	6°57	6°25	19°49	14°38	28°37	0° 9	9°55	16°58	T 4
W 5	18 49 28	12°13'25	20°45	24°33	21° 0	5°42	2°36	6°57	6°26	19°50	14°39	28°35	0° 6	10° 2	16°58	W 5
T 6	18 53 25	13°10'36	3 ¥ 5	26°15	22°10	5°59	2°46	6°56	6°27	19°52	14°40	28°D35	0° 2	10° 9	16°57	T 6
F 7	18 57 21	14° 7'47	15°11	28° 1	23°19	6°15	2°56	6°56	6°29	19°53	14°41	28°36	29 N 59	10°15	16°56	F 7
S 8	19 1 18	15° 4'59	27° 8	29°50	24°28	6°30	3° 7	6°55	6°30	19°55	14°43	28°37	29°56	10°22	16°55	S 8
S 9	19 5 14	16° 2'11	8 Y 59	19542	25°37	6°45	3°17	6°55	6°31	19°56	14°44	28°38	29°53	10°29	16°54	S 9
M10	19 9 11	16°59'24	20°50	3°37	26°46	6°59	3°28	6°55	6°32	19°58	14°45	28°R38	29°50	10°35	16°53	M10
T 11	19 13 8	17°56'37	2 8 46	5°35	27°55	7°12	3°39	6°D55	6°34	19°59	14°47	28°37	29°46	10°42	16°52	T 11
W12	19 17 4	18°53'51	14°52	7°34	29° 4	7°25	3°50	6°55	6°35	20° 0	14°48	28°34	29°43	10°49	16°51	W12
T 13	19 21 1	19°51'06	27°11	9°36	0 m 13	7°37	4° 0	6°55	6°37	20° 2	14°49	28°30	29°40	10°55	16°50	T 13
F 14	19 24 57	20°48'21	9 ∏ 48	11°40	1°21	7°48	4°11	6°55	6°38	20° 3	14°51	28°24	29°37	11° 2	16°48	F 14
S 15	19 28 54	21°45'37	22°43	13°45	2°30	7°59	4°22	6°55	6°40	20° 4	14°52	28°18	29°34	11° 9	16°47	S 15
S 16	19 32 50	22°42'53	5 9 59	15°51	3°38	8° 8	4°34	6°56	6°41	20° 6	14°54	28°12	29°31	11°15	16°46	S 16
M17	19 36 47	23°40'10	19°33	17°58	4°47	8°18	4°45	6°56	6°43	20° 7	14°55	28° 8	29°27	11°22	16°44	M17
T 18	19 40 43	24°37'28	3 Ω 23	20° 5	5°55	8°26	4°56	6°57	6°45	20° 8	14°57	28° 4	29°24	11°29	16°43	T 18
W19	19 44 40	25°34'46	17°27	22°13	7° 3	8°34	5° 7	6°58	6°46	20° 9	14°58	28° 2	29°21	11°35	16°41	W19
T 20	19 48 37	26°32'04	1 m 39	24°21	8°11	8°41	5°19	6°58	6°48	20°10	15° 0	28°D 2	29°18	11°42	16°40	T 20
F 21	19 52 33	27°29'23	15°57	26°28	9°19	8°47	5°30	6°59	6°50	20°12	15° 1	28° 3	29°15	11°49	16°38	F 21
S 22	19 56 30	28°26'43	0 ჲ 16	28°35	10°27	8°52	5°41	7° 0	6°52	20°13	15° 3	28° 4	29°12	11°56	16°37	S 22
S 23	20 0 26	29°24'02	14°33	0 Ω 41	11°34	8°57	5°53	7° 1	6°54	20°14	15° 5	28° 5	29° 8	12° 2	16°35	S 23
M24	20 4 23	0 Q 21'22	28°47	2°46	12°42	9° 1	6° 5	7° 3	6°56	20°15	15° 6	28°R 6	29° 5	12° 9	16°33	M24
T 25	20 8 19	1°18'43	12 M 53	4°50	13°49	9° 4	6°16	7° 4	6°58	20°16	15° 8	28° 5	29° 2	12°16	16°32	T 25
W26	20 12 16	2°16'04	26°52	6°53	14°56	9° 6	6°28	7° 5	7° 0	20°17	15°10	28° 4	28°59	12°22	16°30	W26
T 27	20 16 12	3°13'26	10 × 741	8°55	16° 3	9° 7	6°40	7° 7	7° 2	20°18	15°11	28° 1	28°56	12°29	16°28	T 27
F 28	20 20 9	4°10'48	24°19	10°55	17°10	9°R 8	6°52	7° 8	7° 4	20°19	15°13	27°58	28°52	12°36	16°26	F 28
S 29	20 24 6	5° 8'11	7 る 43	12°54	18°17	9° 8	7° 3	7°10	7° 6	20°19	15°15	27°55	28°49	12°42	16°24	S 29
S 30	20 28 2	6° 5'35	20°54	14°51	19°23	9° 7	7°15	7°12	7° 9	20°20	15°17	27°51	28°46	12°49	16°22	S 30
M31	20 31 59	7 N 2'59	3 ≈ 49	16 Ω 47	20 m 30	9 米 5	7 ™ 27	7 M .14	7 £ 11	20821	15 M 18	27 N 49	28 N 43	12 Y 56	16 ∺ 20	M31

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S 1	23n12	19s 0	4n27	21n 6	1 s52	17n39	1n47	13 s59	4 s 2 5	11n48	1n 4	11 s32	2n28	1 s54	0n41	16n 2	1 s44	19n38	14n45	11n52	11n23	0n48	0s35	4n57
S 2	23 9	19 13	3 45	21 26	1 39	17 17	1 46	13 55	4 29	11 45	1 4	11 32	2 28	1 55	0 41	16 2	1 44	19 37	14 45	11 55	11 24	0 50	0 35	4 57
M 3	23 4	18 20		21 45	1 27	16 54				11 41		11 32	2 27	1 55				19 37			-	0 52	0 35	
T 4	23 0	16 31		22 3	1 14					11 37		11 32	2 27	1 55		16 3					11 26	0 54	0 35	
W 5 T 6	22 55 22 49		0 42		1 1 0 49	16 7		13 45		11 33		11 32	2 27	1 56		16 3 16 3				11 59		0 56 0 58	0 35	
F 7	22 49			22 36 22 51	0 49	-		13 43 13 40		11 30 11 26		11 32 11 32	2 27 2 26	1 56 1 57	0 41 0 41	16 3 16 4		19 34 19 33				1 0	0 35 0 35	
S 8	22 37	3 25	2 29			14 53		13 38		11 22		11 33	2 26	1 57	-	-		19 33				1 2	0 36	
S 9	22 31	0n29	3 22	23 16	0 12	14 28	1 34	13 36	4 54	11 18	1 3	11 33	2 26	1 58	0 41	16 5	1 44	19 32	14 42	11 58	11 32	1 4	0 36	4 58
M10	22 24	4 21	4 6	23 26	0n 0	14 3	1 32	13 34	4 58	11 14	1 3	11 33	2 26	1 58	0 41	16 5	1 44	19 31	14 42	11 58	11 33	1 6	0 36	4 59
T 11	22 16	8 4	4 40	23 33	0 12	13 37	1 30	13 32	5 1	11 10	1 3	11 33	2 25	1 59	0 41	16 5	1 44	19 30	14 42	11 58	11 34	1 8	0 36	4 59
W12	22 8			23 38	0 23			13 31		11 6	1 3		2 25	2 0	-	16 5						1 10	0 37	4 59
T 13	22 0			23 41	0 33					11 2	1 3		2 25	2 0	-	16 6			14 41		11 36	1 12	0 37	4 59
		16 56 18 34		23 41 23 38		12 18 11 51		13 28 13 28		10 58 10 54		11 34 11 34	2 25 2 24	2 1 2 1	0 41 0 41	16 6 16 6		19 28 19 27	14 41		11 37 11 38	1 14 1 16	0 37 0 38	4 59 4 59
		19 14	-	23 33		11 23		13 27		10 50	1 3		2 24	2 2	-	-		19 26	-		11 40	1 18	0 38	5 0
	21 24 21 14	18 50	-	23 25 23 14	1 9 1 16		-	13 27 13 27	5 23 5 26		1 3		2 24 2 23	2 3 2 4	-	16 7 16 7		-	14 40		11 41 11 42	1 20 1 22	0 38 0 39	5 0
	21 14		0 58	_	1 23	10 28		13 27	5 30	-	1 3		2 23	2 4	-	16 8		-	-		11 42	1 24	0 39	5 0
T 20		11 13		22 44	1 29	9 32			5 33		1 3		2 23	2 5		16 8					11 44	1 26	0 39	5 0
F 21	20 42	7 2	1 37	22 25	1 34	9 3	1 3	13 29	5 37	10 29	1 3	11 37	2 23	2 6	0 40	16 8	1 45	19 22	14 39	12 10	11 45	1 28	0 40	5 0
S 22	20 30	2 27	2 48	22 4	1 38	8 35	1 0	13 30	5 40	10 24	1 3	11 38	2 22	2 7	0 40	16 8	1 45	19 21	14 38	12 10	11 46	1 30	0 40	5 1
S 23	20 18	2s15	3 48	21 41	1 41	8 6	0 56	13 32	5 44	10 20	1 3	11 38	2 22	2 7	0 40	16 8	1 45	19 20	14 38	12 9	11 47	1 32	0 41	5 1
M24	20 6	6 47	4 34	21 15	1 44	7 37	0 53	13 33	5 47	10 16	1 2	11 39	2 22	2 8	0 40	16 9	1 45	19 19	14 38	12 9	11 48	1 34	0 41	5 1
T 25		10 55	5 3	20 47	1 46	7 8	0 49	13 35	5 50		1 2		2 22	2 9				-	14 38			1 36	0 42	-
W26		14 23		20 18	1 47	6 39			5 53	10 7	1 2		2 21	2 10				-		12 10		1 38	0 43	-
T 27 F 28	19 28 19 14	17 1 18 40	5 6 4 42	19 47 19 14	1 47 1 47	6 9 5 40	-	-	5 57 6 0	10 3 9 58	1 2		2 21 2 21	2 11 2 12	0 40 0 40						11 52	1 40 1 42	0 43 0 44	
S 29		19 14		18 40	1 47	5 10		13 45	6 0 6 3	9 54			2 21	2 12		16 10					11 54	1 44	0 44	
S 30	18 47	18 44	3 9	18 4	1 45	4 40	0 30	13 48	6 6	9 49	1 2		2 20	2 13	0 40	16 10	1 45	19 13	14 36	12 14	11 55	1 46	0 45	5 2
M31		17s15		17n28		4n10		13 s51		-		11 s44	-			16n10		-			11n56	-		

Julian Day Number = 2349092.5, Delta T = 10.49 sec

Ecliptic obliquity = $23^{\circ}28'24$, Nutation = - $0^{\circ}00'08$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°49'28, Lahiri = 19°56'28Greg. Calendar

AUGUST 1719 00:00 UT

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T 1	20 35 55	8 N 0'25	16≈30	18 Ω 41	21 Mp 36	9°R 3	7 m 39	7 M .15	7 ≏ 13	20822	15 m 20	27°R48	28 Ω 40	13 ° 2	16°R18	T 1
W 2	20 39 52	8°57'51	28°56	20°33	22°42	9 米 0	7°51	7°17	7°16	20°23	15°22	27°D47	28°37	13° 9	16 米 16	W 2
T 3	20 43 48	9°55'19	11 米 10	22°24	23°48	8°56	8° 3	7°20	7°18	20°23	15°24	27 Ω 48	28°33	13°16	16°14	T 3
F 4	20 47 45	10°52'47	23°12	24°14	24°54	8°51	8°16	7°22	7°20	20°24	15°26	27°49	28°30	13°22	16°12	F 4
S 5	20 51 41	11°50'17	5 ℃ 7	26° 1	25°59	8°45	8°28	7°24	7°23	20°25	15°28	27°50	28°27	13°29	16° 9	S 5
S 6	20 55 38	12°47'49	16°58	27°48	27° 5	8°39	8°40	7°27	7°25	20°25	15°29	27°52	28°24	13°36	16° 7	S 6
M 7	20 59 35	13°45'21	28°49	29°32	28°10	8°32	8°52	7°29	7°28	20°26	15°31	27°53	28°21	13°42	16° 5	M 7
T 8	21 3 31	14°42'55	10 8 45	1 m) 16	29°15	8°24	9° 5	7°32	7°31	20°26	15°33	27°R53	28°18	13°49	16° 2	T 8
W 9	21 7 28	15°40'31	22°50	2°57	0 ჲ 20	8°15	9°17	7°34	7°33	20°27	15°35	27°53	28°14	13°56	16° 0	W 9
T 10	21 11 24	16°38'07	5 Ⅱ 10	4°37	1°24	8° 6	9°29	7°37	7°36	20°28	15°37	27°53	28°11	14° 2	15°58	T 10
F 11	21 15 21	17°35'46	17°47	6°16	2°29	7°56	9°42	7°40	7°39	20°28	15°39	27°52	28° 8	14° 9	15°55	F 11
S 12	21 19 17	18°33'26	09945	7°53	3°33	7°45	9°54	7°43	7°41	20°28	15°41	27°50	28° 5	14°16	15°53	S 12
S 13	21 23 14	19°31'08	14° 7	9°29	4°37	7°34	10° 7	7°46	7°44	20°29	15°43	27°49	28° 2	14°23	15°50	S 13
M14	21 27 10	20°28'51	27°52	11° 3	5°41	7°22	10°19	7°49	7°47	20°29	15°45	27°48	27°58	14°29	15°48	M14
T 15	21 31 7	21°26'35	12Ω 0	12°36	6°44	7°10	10°32	7°52	7°50	20°30	15°47	27°48	27°55	14°36	15°45	T 15
W16	21 35 4	22°24'21	26°25	14° 7	7°48	6°57	10°45	7°56	7°53	20°30	15°49	27°D48	27°52	14°43	15°43	W16
T 17	21 39 0	23°22'08	11 Mp 3	15°37	8°51	6°43	10°57	7°59	7°56	20°30	15°51	27°48	27°49	14°49	15°40	T 17
F 18	21 42 57	24°19'56	25°47	17° 5	9°54	6°30	11°10	8° 2	7°59	20°30	15°53	27°48	27°46	14°56	15°38	F 18
S 19	21 46 53	25°17'46	10 ≏ 30	18°32	10°56	6°15	11°23	8° 6	8° 2	20°31	15°55	27°48	27°43	15° 3	15°35	S 19
S 20	21 50 50	26°15'37	25° 7	19°57	11°59	6° 0	11°35	8°10	8° 5	20°31	15°57	27°49	27°39	15° 9	15°32	S 20
M21	21 54 46	27°13'29	9 M 32	21°21	13° 1	5°45	11°48	8°13	8° 8	20°31	15°59	27°49	27°36	15°16	15°30	M21
T 22	21 58 43	28°11'22	23°42	22°43	14° 3	5°30	12° 1	8°17	8°11	20°31	16° 1	27°49	27°33	15°23	15°27	T 22
W23	22 2 39	29° 9'17	7 . ₹35	24° 4	15° 4	5°15	12°14	8°21	8°14	20°31	16° 4	27°49	27°30	15°29	15°24	W23
T 24	22 6 36	0 Mp 7'13	21°11	25°22	16° 5	4°59	12°26	8°25	8°17	20°31	16° 6	27°49	27°27	15°36	15°22	T 24
F 25	22 10 32	1° 5'10	4 る 29	26°40	17° 6	4°43	12°39	8°29	8°20	20°R31	16° 8	27°49	27°24	15°43	15°19	F 25
S 26	22 14 29	2° 3'08	17°32	27°55	18° 7	4°27	12°52	8°33	8°24	20°31	16°10	27°49	27°20	15°49	15°16	S 26
S 27	22 18 26	3° 1'08	0≈21	29° 8	19° 7	4°11	13° 5	8°37	8°27	20°31	16°12	27°50	27°17	15°56	15°13	S 27
M28	22 22 22	3°59'10	12°56	0 ჲ 20	20° 7	3°55	13°18	8°41	8°30	20°31	16°14	27°50	27°14	16° 3	15°10	M28
T 29	22 26 19	4°57'13	25°19	1°30	21° 6	3°39	13°31	8°46	8°33	20°31	16°16	27°R51	27°11	16°10	15° 8	T 29
W30	22 30 15	5°55'17	7) €32	2°37	22° 6	3°23	13°44	8°50	8°37	20°31	16°18	27°50	27° 8	16°16	15° 5	W30
T 31	22 34 12	6 Mp 53'23	19 ∺ 36	3 ₾ 43	23 ♀ 4	3 ∺ 7	13 m 57	8 M .55	8 ≏ 40	20830	16 m 21	27 Q 50	27 Ω 4	16 Y 23	15 ¥ 2	T 31

Day	0	D	ğ	·	♂ [™]	4		ħ		ړ((并		Р	ß	v	Ç	, k	
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T 1 W 2	18n18 18 3	11 58 0s 6		3n41 0n22 13 s 3 11 0 18 13	59 6 14	9 36 1	1 2	11 s45 11 46	2n20 2 19	2 s15 2 16	0n40 0 40	16 10 1	46 1	19n12 14n30 19 11 14 30	5 12 15	11 58	1n50 1 52	0s46 0 47	5n 2 5 2
T 3 F 4 S 5	17 47 17 32 17 16		15 32 1 33 14 52 1 29 14 11 1 24	2 40 0 14 14 2 10 0 9 14 1 40 0 5 14	3 6 17 7 6 19 11 6 22	9 31 1 9 27 1 9 22 1	1 2	11 47 11 48 11 49	2 19 2 19 2 19	2 17 2 18 2 19	0 40	16 11 1	46 1		5 12 15 5 12 15 5 12 14	12 1	1 54 1 56 1 58	0 48 0 48 0 49	5 2 5 2 5 3
S 6 M 7 T 8 W 9		6 45 4 37 10 16 5 3	13 30 1 19 12 48 1 14 12 6 1 8 11 24 1 2	1 10 0 0 14 0 40 0s 4 14 0 9 0 9 14 0s21 0 14 14	20 6 26 25 6 28	9 13 1 9 8 1	1 2 1 2	11 50 11 51 11 52 11 53	2 18 2 18 2 18 2 18	2 20 2 21 2 22 2 24	0 40 0 40 0 40 0 40	16 11 1 16 11 1	46 1	19 6 14 3 19 5 14 3	5 12 14 5 12 14 5 12 13 4 12 14	12 4 12 5	2 0 2 2 2 4 2 6	0 50 0 51 0 52 0 52	5 3 5 3 5 3 5 3
T 10 F 11 S 12	15 52	16 2 5 14 17 58 4 58	10 42 0 56 9 59 0 49	0 s 2 1 0 14 14 0 5 1 0 19 14 1 2 1 0 2 4 14 1 5 1 0 2 9 14	35 6 32 41 6 33	8 59 1 8 54 1	1 2 1 2	11 53 11 54 11 55 11 57	2 17 2 17 2 17 2 17	2 24 2 25 2 26 2 27	0 40 0 40	16 11 1 16 11 1	46 1	19 3 14 3	1 12 14 1 12 14	12 7 12 8	2 6 2 8 2 10 2 12	0 52 0 53 0 54 0 55	5 3 5 3 5 3
S 13 M14 T 15 W16 T 17 F 18 S 19		19 5 3 39 18 2 2 39 15 50 1 27 12 37 0 8 8 34 1n13 3 58 2 29 0s51 3 36	7 51 0 28 7 9 0 20 6 26 0 12 5 44 0 4 5 2 0s 4	2 21 0 34 14 2 52 0 39 14 3 22 0 44 15 3 52 0 50 15 4 21 0 55 15 4 51 1 1 15 5 21 1 6 15	57 6 37 3 6 38 8 6 39 14 6 40 20 6 40	8 40 1 8 35 1 8 30 1 8 25 1 8 20 1	1 2 1 2 1 2 1 2 1 2	11 58 11 59 12 0 12 2 12 3 12 4 12 6	2 17 2 16 2 16 2 16 2 16 2 15 2 15	2 28 2 29 2 30 2 31 2 33 2 34 2 35	0 40 0 40 0 40 0 40 0 40	16 11 1 16 11 1 16 11 1 16 11 1 16 11 1	46 1 46 1 46 1 46 1	19 1 14 34 19 0 14 34 18 59 14 33 18 58 14 33 18 57 14 33 18 56 14 33 18 55 14 33	3 12 15 3 12 15 3 12 15 3 12 15	12 12 12 13 12 14 12 15 12 16	2 14 2 16 2 18 2 20 2 22 2 24 2 26	0 56 0 57 0 58 0 59 1 0 1 1	5 3 5 3 5 3 5 4 5 4 5 4
S 20 M21 T 22 W23 T 24 F 25 S 26	12 47 12 27 12 7 11 47 11 27 11 6	5 35 4 27 9 55 5 2 13 36 5 17 16 28 5 13 18 20 4 52 19 9 4 15 18 55 3 26	3 39 0 21 2 58 0 30 2 18 0 39 1 38 0 48 0 58 0 57 0 19 1 6	5 50 1 12 15 6 20 1 17 15 6 49 1 23 15 7 18 1 29 15 7 47 1 35 15 8 16 1 40 15 8 45 1 46 16	31 6 40 36 6 40 42 6 40 47 6 39 52 6 39	8 11 1 8 6 1 8 1 1 7 56 1 7 51 1 7 46 1	1 2 1 2 1 2 1 2 1 2 1 2	12 7 12 8 12 10 12 11 12 13 12 14 12 16	2 15 2 15 2 14 2 14 2 14 2 14 2 14 2 14	2 36 2 38 2 39 2 40 2 41 2 43 2 44	0 39 0 39 0 39 0 39 0 39 0 39	16 11 1 16 11 1 16 11 1 16 11 1 16 11 1 16 11 1	47 1 47 1 47 1 47 1 47 1 47 1	18 54 14 33 18 53 14 33 18 52 14 33 18 52 14 33 18 51 14 33 18 50 14 33 18 49 14 33	3 12 15 3 12 15 3 12 15 3 12 15 3 12 15 3 12 15	12 18 12 19 12 20 12 22 12 23 12 24	2 28 2 30 2 32 2 34 2 36 2 38 2 40	1 2 1 3 1 4 1 6 1 7 1 8 1 9	5 4 5 4 5 4 5 4 5 4 5 4
S 27 M28 T 29 W30 T 31	10 4	17 43 2 27 15 39 1 22 12 53 0 14 9 35 0s53 5s56 1s58	1 34 1 34 2 10 1 43 2 45 1 52	9 14 1 52 16 9 42 1 58 16 10 10 2 4 16 10 38 2 10 16 11s 6 2s16 16s	16 6 32 20 6 30	7 31 1 7 26 1 7 22 1	1 2 1 2 1 2	12 17 12 19 12 21 12 22 12 s24	2 13 2 13 2 13 2 13 2 13 2n12	2 45 2 46 2 48 2 49 2 s50	0 39 0 39 0 39	16 11 1 16 11 1 16 11 1	47 1 47 1 47 1	18 48 14 33 18 47 14 33 18 46 14 33 18 45 14 33 18n44 14n33	2 12 15 2 12 14 2 12 14	12 27 12 28 12 29	2 43 2 45 2 47 2 49 2n51	1 10 1 11 1 12 1 13 1 s14	5 4 5 4 5 4 5 4 5n 4

Julian Day Number = 2349123.5, Delta T = 10.49 sec Ecliptic obliquity = $23^{\circ}28'25$, Nutation = - $0^{\circ}00'08$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}49'32$, Lahiri = $19^{\circ}56'33$ Greg. Calendar

SEPTEMBER 1719 00:00 UT

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Day	Sid.t	0)	ğ	Q.	ď	4	ħ)Å(并	В	n	Ω	Ç	ę,	Day
F 1	22 38 8	7 mp 51'31	1 Y 33	4 <u>₽</u> 46	24 ♀ 3	2°R51	14 m) 10	8 M .59	8 ≏ 43	20°R30	16 m 23	27°R49	27 Ω 1	16 Y 30	14°R59	F 1
S 2	22 42 5	8°49'41	13°25	5°47	25° 1	2 ∺ 36	14°22	9° 4	8°47	20830	16°25	27 Ω 47	26°58	16°36	14) 56	S 2
S 3	22 46 1	9°47'53	25°16	6°45	25°58	2°21	14°35	9° 8	8°50	20°30	16°27	27°46	26°55	16°43	14°53	S 3
M 4	22 49 58	10°46'06	7 と 7	7°40	26°56	2° 6	14°48	9°13	8°54	20°29	16°29	27°44	26°52	16°50	14°51	M 4
T 5	22 53 55	11°44'22	19° 2	8°33	27°52	1°51	15° 1	9°18	8°57	20°29	16°31	27°42	26°49	16°56	14°48	T 5
W 6	22 57 51	12°42'39	1 I I 6	9°22	28°49	1°37	15°14	9°23	9° 0	20°28	16°34	27°41	26°45	17° 3	14°45	W 6
T 7	23 1 48	13°40'59	13°22	10° 8	29°44	1°23	15°27	9°28	9° 4	20°28	16°36	27°D41	26°42	17°10	14°42	T 7
F 8	23 5 44	14°39'21	25°56	10°51	0 M .40	1°10	15°40	9°33	9° 7	20°28	16°38	27°41	26°39	17°16	14°39	F 8
S 9	23 941	15°37'45	8950	11°30	1°35	0°57	15°53	9°38	9°11	20°27	16°40	27°42	26°36	17°23	14°36	S 9
S 10	23 13 37	16°36'12	22° 9	12° 4	2°29	0°45	16° 6	9°43	9°15	20°27	16°42	27°44	26°33	17°30	14°33	S 10
M11	23 17 34	17°34'40	5 Ω 55	12°35	3°23	0°33	16°19	9°48	9°18	20°26	16°44	27°45	26°29	17°37	14°31	M11
T 12	23 21 30	18°33'10	20° 6	13° 0	4°16	0°22	16°32	9°54	9°22	20°25	16°47	27°46	26°26	17°43	14°28	T 12
W13	23 25 27	19°31'43	4 Mp 42	13°21	5° 9	0°12	16°45	9°59	9°25	20°25	16°49	27°R46	26°23	17°50	14°25	W13
T 14	23 29 24	20°30'17	19°36	13°36	6° 1	0° 2	16°58	10° 5	9°29	20°24	16°51	27°45	26°20	17°57	14°22	T 14
F 15	23 33 20	21°28'53	4 º 41	13°46	6°52	29≈52	17°11	10°10	9°33	20°24	16°53	27°42	26°17	18° 3	14°19	F 15
S 16	23 37 17	22°27'31	19°48	13°R49	7°43	29°44	17°24	10°16	9°36	20°23	16°55	27°39	26°14	18°10	14°16	S 16
S 17	23 41 13	23°26'11	4 M .47	13°46	8°33	29°36	17°37	10°21	9°40	20°22	16°58	27°36	26°10	18°17	14°13	S 17
M18	23 45 10	24°24'53	19°30	13°36	9°22	29°29	17°50	10°27	9°44	20°21	17° 0	27°33	26° 7	18°23	14°11	M18
T 19	23 49 6	25°23'37	3 ₹ 52	13°19	10°11	29°23	18° 3	10°32	9°47	20°21	17° 2	27°30	26° 4	18°30	14° 8	T 19
W20	23 53 3	26°22'22	1 <u>7</u> °50	12°55	10°59	29°18	18°16	10°38	9°51	20°20	17° 4	27°28	26° 1	18°37	14° 5	W20
T 21	23 56 59	27°21'09	1 る 23	12°23	11°46	29°13	18°29	10°44	9°55	20°19	17° 6	27°D28	25°58	18°43	14° 2	T 21
F 22	0 0 56	28°19'57	14°33	11°45	12°32	29° 9	18°42	10°50	9°58	20°18	17° 8	27°29	25°55	18°50	13°59	F 22
S 23	0 4 53	29°18'48	27°23	10°59	13°18	29° 6	18°55	10°56	10° 2	20°17	17°10	27°31	25°51	18°57	13°57	S 23
S 24	0 8 49	0 ჲ 17'40	9≈56	10° 7	14° 2	29° 4	19° 8	11° 2	10° 6	20°16	17°13	27°32	25°48	19° 4	13°54	S 24
M25	0 12 46	1°16'33	22°16	9° 9	14°46	29° 2	19°20	11°8	10°10	20°15	17°15	27°R33	25°45	19°10	13°51	M25
T 26	0 16 42	2°15'29	4) €24	8° 6	15°28	29°D 1	19°33	11°14	10°13	20°14	17°17	27°33	25°42	19°17	13°49	T 26
W27	0 20 39	3°14'27	16°26	7° 0	16°10	29° 1	19°46	11°20	10°17	20°13	17°19	27°32	25°39	19°24	13°46	W27
T 28	0 24 35	4°13'26	28°22	5°52	16°50	29° 2	19°59	11°26	10°21	20°12	17°21	27°28	25°35	19°30	13°43	T 28
F 29	0 28 32	5°12'27	10 Υ 14	4°43	17°30	29° 4	20°12	11°32	10°25	20°11	17°23	27°23	25°32	19°37	13°41	F 29
S 30	0 32 28	6 ₽ 11'31	22 ° 5	3 ₾ 36	18 M 8	29≈ 7	20 Mg 24	11 M 39	10 ≏ 28	20810	17 m 25	$27\Omega 16$	$25\Omega_{29}$	19 Ƴ 44	13 米 38	S 30

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F 1 S 2	8n38 8 16	2s 5 2s56 1n50 3 47	3 s53 2 s1 4 25 2 1		16 s 28 6 s 26 16 31 6 23	7n12 1n 2 7 7 1 2			16n11 1 s47 16 10 1 47	-	12n15 12n31 12 16 12 32	2n53 2 55	1s15 5n 4 1 16 5 4
S 3 M 4 T 5 W 6	7 54 7 32 7 10 6 48	5 38 4 27 9 14 4 56 12 29 5 13 15 15 5 16	5 55 2 4	6 12 54 2 41 5 13 20 2 47	16 34 6 21 16 37 6 18 16 40 6 15 16 42 6 12	7 2 1 2 6 57 1 2 6 52 1 2 6 47 1 2	12 30 2 12 12 32 2 11	2 54 0 39 2 56 0 39 2 57 0 39 2 59 0 39	16 10 1 47 16 10 1 47	18 40 14 32	12 16 12 34 12 17 12 35 12 17 12 36 12 18 12 37	2 59	1 17 5 4 1 19 5 4 1 20 5 4 1 21 5 3
T 7 F 8 S 9	6 26 6 3	17 24 5 4 18 46 4 39	6 48 3 7 12 3	1 14 12 3 0 9 14 38 3 6	16 44 6 9	6 42 1 2 6 37 1 2 6 32 1 2	12 36 2 11 12 37 2 11	3 0 0 39	16 10 1 48 16 10 1 48	18 39 14 32 18 38 14 32	12 18 12 38 12 18 12 39 12 17 12 40	3 5 3 7	1 22 5 3 1 23 5 3 1 24 5 3
S 10 M11 T 12 W13 T 14 F 15 S 16		16 55 1 58	8 12 3 3 8 27 3 3 8 40 3 4 8 51 3 4 8 58 3 5	0 15 52 3 25 6 16 17 3 32 1 16 40 3 38 6 17 4 3 44 0 17 27 3 51		6 27 1 2 6 22 1 2 6 17 1 2 6 12 1 2 6 6 1 2 6 1 1 2 5 56 1 2	12 43 2 10 12 45 2 10 12 47 2 10 12 48 2 10 12 50 2 9	3 6 0 39 3 7 0 39 3 9 0 39 3 10 0 39 3 11 0 39	16 9 1 48 16 9 1 48 16 9 1 48 16 8 1 48 16 8 1 48	18 34 14 33 18 34 14 33 18 33 14 33 18 32 14 33	12 17 12 41 12 16 12 42 12 16 12 43 12 16 12 44 12 16 12 45 12 17 12 47 12 18 12 48		1 25 5 3 1 27 5 3 1 28 5 3 1 29 5 3 1 30 5 3 1 31 5 3 1 33 5 3
S 17 M18 T 19 W20 T 21 F 22 S 23	1 50	15 51 5 12 18 2 4 54 19 7 4 21 19 8 3 34	9 0 3 5 8 53 3 5 8 41 3 5 8 26 3 5 8 6 3 4	6 18 34 4 9 5 18 56 4 15 4 19 17 4 22 0 19 38 4 28 5 19 58 4 34	16 44 5 25 16 42 5 21	5 51 1 2 5 46 1 2 5 41 1 3 5 36 1 3 5 31 1 3 5 26 1 3 5 21 1 3	12 56 2 9 12 58 2 9 13 0 2 9 13 2 2 8 13 4 2 8	3 16 0 39 3 17 0 39 3 19 0 39 3 20 0 39 3 22 0 39	16 7 1 48 16 7 1 48 16 7 1 48 16 7 1 48 16 6 1 48	18 29 14 33 18 28 14 33 18 28 14 34 18 27 14 34	12 19 12 49 12 21 12 50 12 22 12 51 12 22 12 52 12 22 12 53 12 22 12 54 12 21 12 55	3 29 3 31 3 33 3 35	1 34 5 3 1 35 5 2 1 36 5 2 1 37 5 2 1 38 5 2 1 40 5 2 1 41 5 2
S 24 M25 T 26 W27 T 28 F 29 S 30	0 30	13 39 0 29	6 40 3 1 6 4 3 5 24 2 5 4 43 2 3 3 59 2 1	9 20 56 4 52 6 21 14 4 58 1 21 32 5 3 5 21 49 5 9 8 22 6 5 15	16 19 4 48 16 15 4 43 16 10 4 38	5 16 1 3 5 11 1 3 5 6 1 3 5 1 1 3 4 56 1 3 4 51 1 3 4n47 1n 3	13 10 2 8 13 12 2 8 13 14 2 7 13 16 2 7	3 26 0 39 3 28 0 39 3 29 0 39 3 31 0 39 3 32 0 39	16 5 1 48 16 5 1 49 16 5 1 49 16 5 1 49	18 24 14 34 18 23 14 34 18 23 14 35 18 22 14 35	12 20 12 57 12 20 12 58 12 21 12 59 12 22 13 1	3 41 3 43 3 45 3 47 3 49	1 42 5 2 1 43 5 1 1 44 5 1 1 46 5 1 1 47 5 1 1 48 5 1 1 s49 5n 1

 $\label{eq:Julian Day Number = 2349154.5, Delta T = 10.49 sec} \\ Ecliptic obliquity = 23°28'25, Nutation = -0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°49'37, Lahiri = 19°56'37Greg. Calendar \\ \\$

OCTOBER 1719 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(并	В	S.	Ω	Ç	ķ	Day
S 1	0 36 25	7 ₽ 10'37	3 8 56	2°R32	18 M .45	29≈10	20 m 37	11 M .45	10 ≏ 32	20°R 9	17 m 27	27°R 8	25 Ω 26	19 Y 50	13°R36	S 1
M 2	0 40 21	8° 9'44	15°49	1 ≏ 34	19°21	29°14	20°50	11°51	10°36	20 8 8	17°29	27 Ω 1	25°23	19°57	13 米 33	M 2
T 3	0 44 18	9° 8'55	27°47	0°42	19°55	29°19	21° 2	11°58	10°40	20° 7	17°32	26°54	25°20	20° 4	13°30	T 3
W 4	0 48 15	10° 8'07	9∏52	29 m 58	20°29	29°24	21°15	12° 4	10°44	20° 5	17°34	26°48	25°16	20°10	13°28	W 4
T 5	0 52 11	11° 7'22	22° 8	29°23	21° 1	29°30	21°28	12°10	10°47	20° 4	17°36	26°44	25°13	20°17	13°26	T 5
F 6	0 56 8	12° 6'39	4937	28°59	21°31	29°38	21°40	12°17	10°51	20° 3	17°38	26°42	25°10	20°24	13°23	F 6
S 7	1 0 4	13° 5'58	17°26	28°45	22° 0	29°45	21°53	12°23	10°55	20° 2	17°40	26°D42	25° 7	20°31	13°21	S 7
S 8	1 4 1	14° 5'20	0 Ω 37	28°D42	22°27	29°54	22° 5	12°30	10°59	20° 0	17°42	26°43	25° 4	20°37	13°18	S 8
M 9	1 7 57	15° 4'44	14°13	28°50	22°53	0 米 3	22°18	12°37	11° 2	19°59	17°44	26°44	25° 0	20°44	13°16	M 9
T 10	1 11 54	16° 4'10	28°17	29° 8	23°17	0°13	22°30	12°43	11° 6	19°58	17°46	26°R45	24°57	20°51	13°14	T 10
W11	1 15 50	17° 3'38	12 m /48	29°37	23°40	0°24	22°43	12°50	11°10	19°56	17°48	26°43	24°54	20°57	13°12	W11
T 12	1 19 47	18° 3'09	27°43	0 ჲ 15	24° 0	0°35	22°55	12°57	11°14	19°55	17°50	26°40	24°51	21° 4	13° 9	T 12
F 13	1 23 44	19° 2'42	12 ≏ 55	1° 1	24°19	0°47	23° 7	13° 3	11°18	19°54	17°52	26°35	24°48	21°11	13° 7	F 13
S 14	1 27 40	20° 2'17	28°13	1°56	24°36	1° 0	23°20	13°10	11°21	19°52	17°53	26°27	24°45	21°17	13° 5	S 14
S 15	1 31 37	21° 1'54	13 M 28	2°58	24°51	1°13	23°32	13°17	11°25	19°51	17°55	26°19	24°41	21°24	13° 3	S 15
M16	1 35 33	22° 1'33	28°28	4° 5	25° 4	1°27	23°44	13°24	11°29	19°49	17°57	26°10	24°38	21°31	13° 1	M16
T 17	1 39 30	23° 1'14	13 x 5	5°19	25°14	1°42	23°56	13°31	11°33	19°48	17°59	26° 3	24°35	21°38	12°59	T 17
W18	1 43 26	24° 0'56	27°13	6°37	25°23	1°57	24° 8	13°37	11°36	19°46	18° 1	25°58	24°32	21°44	12°57	W18
T 19	1 47 23	25° 0'41	10 る 52	7°59	25°29	2°13	24°20	13°44	11°40	19°45	18° 3	25°55	24°29	21°51	12°55	T 19
F 20	1 51 19	26° 0'27	24° 4	9°25	25°33	2°30	24°32	13°51	11°44	19°43	18° 5	25°D54	24°26	21°58	12°53	F 20
S 21	1 55 16	27° 0'14	6≈50	10°53	25°R35	2°47	24°44	13°58	11°47	19°42	18° 6	25°54	24°22	22° 4	12°51	S 21
S 22	1 59 13	28° 0'04	19°17	12°24	25°35	3° 4	24°56	14° 5	11°51	19°40	18° 8	25°55	24°19	22°11	12°49	S 22
M23	2 3 9	28°59'55	1 ∺ 28	13°57	25°31	3°23	25° 8	14°12	11°55	19°39	18°10	25°R55	24°16	22°18	12°48	M23
T 24	2 7 6	29°59'47	13°29	15°32	25°26	3°41	25°20	14°19	11°58	19°37	18°12	25°53	24°13	22°24	12°46	T 24
W25	2 11 2	0 M .59'42	25°23	17° 8	25°18	4° 1	25°31	14°26	12° 2	19°36	18°13	25°49	24°10	22°31	12°44	W25
T 26	2 14 59	1°59'38	7 Υ 14	18°45	25° 8	4°21	25°43	14°33	12° 6	19°34	18°15	25°42	24° 6	22°38	12°43	T 26
F 27	2 18 55	2°59'36	19° 4	20°22	24°55	4°41	25°55	14°40	12° 9	19°32	18°17	25°33	24° 3	22°45	12°41	F 27
S 28	2 22 52	3°59'35	0 8 56	22° 0	24°40	5° 2	26° 6	14°47	12°13	19°31	18°19	25°21	24° 0	22°51	12°40	S 28
S 29	2 26 48	4°59'37	12°51	23°39	24°22	5°23	26°18	14°55	12°16	19°29	18°20	25° 8	23°57	22°58	12°38	S 29
M30	2 30 45	5°59'41	24°50	25°17	24° 2	5°45	26°29	15° 2	12°20	19°28	18°22	24°54	23°54	23° 5	12°37	M30
T 31	2 34 41	6M59'46	6 I I55	26 ≏ 56	23 M 40	6 ∺ 7	26 Mp 40	15 M 9	12 ≏ 24	19826	18 m 23	24 Ω 41	23 N 51	23 Y 11	12 米 35	T 31

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S 1 M 2 T 3 W 4 T 5 F 6 S 7 S 8 M 9 T 10 W11 T 12	2 s 5 1 3 1 5 3 3 8 4 1 4 2 4 4 4 8 5 1 1 5 3 4	8n23 4s44 11 46 5 3 17 0 5 1 18 35 4 39 19 20 4 4 19 6 3 16 17 50 2 16 15 31 1 7 12 13 0n 8 8 5 1 25	2s31 1s3 1 49 1 1 1 10 0 5 0 34 0 3 0 2 0 1 0n25 0n 0 47 0 1 1 4 0 3 1 14 0 5	39 22 s 38 5 s 25 19 22 5 3 5 3 1 5 8 23 8 5 3 6 38 23 22 5 4 1 1 8 23 35 5 46 1 23 48 5 50 19 24 0 5 5 5 3 5 24 11 5 5 9 5 1 24 22 6 3 4 24 32 6 7 17 24 41 6 10	15 s54 4 s24 15 48 4 19 15 42 4 15 15 36 4 10 15 29 4 5 15 22 4 0 15 15 3 56 15 8 3 51 15 0 3 47 14 52 3 42 14 44 3 38	4n42 1n 3 4 37 1 3 4 32 1 3 4 27 1 4 4 22 1 4 4 17 1 4	13 s22 2n 7 13 24 2 7 13 26 2 7 13 26 2 7 13 30 2 6 13 32 2 6 13 35 2 6 13 37 2 6 13 39 2 6 13 41 2 6 13 43 2 6	3 s35 0n39 3 36 0 39 3 38 0 39 3 39 0 39 3 41 0 39 3 42 0 39 3 44 0 39 3 45 0 39 3 47 0 39 3 48 0 39	16n 4 1 s49 16 3 1 49 16 3 1 49 16 2 1 49 16 2 1 49 16 2 1 49 16 1 1 49 16 1 1 49 16 1 1 49 16 0 1 49 16 0 1 49	18n21 14n35 18 20 14 35 18 19 14 36 18 19 14 36 18 18 14 36 18 18 14 36 18 17 14 37 18 16 14 37 18 16 14 37 18 15 14 38	12n29 13n 4 12 32 13 5 12 34 13 6 12 36 13 7 12 37 13 8	3n53 3 55 3 57 4 0 4 2 4 4 4 6 4 8 4 10 4 12 4 14 4 16	1 s50 5n 0 1 51 5 0 1 52 5 0 1 54 5 0 1 55 5 0 1 56 4 59 1 57 4 59 1 58 4 59 1 59 4 59
F 13 S 14 S 15 M16 T 17 W18	7 28 7 51 8 13 8 35 8 58 9 20	1 s42 3 42 6 39 4 30 11 10 4 58 14 53 5 5 17 34 4 52	1 4 1 3 0 50 1 4 0 31 1 5 0 8 1 5 0s17 1 5	37 24 57 6 16 44 25 4 6 19 51 25 10 6 22 56 25 15 6 24 59 25 20 6 25	14 27 3 29 14 19 3 24 14 10 3 20 14 1 3 15	3 48 1 4 3 43 1 4 3 38 1 4 3 34 1 5 3 29 1 5 3 24 1 5 3 20 1 5	13 47 2 5 13 49 2 5 13 51 2 5 13 54 2 5 13 56 2 5	3 53 0 39 3 54 0 39 3 56 0 39 3 57 0 39 3 59 0 39	15 59 1 49 15 59 1 49	18 14 14 38 18 13 14 38 18 13 14 39 18 12 14 39 18 12 14 39	12 40 13 17 12 43 13 18	4 18 4 20 4 22 4 24 4 26 4 28	2 3 4 58
T 19 F 20 S 21 S 22	10 47	18 40 2 42 16 58 1 40 14 30 0 35	3 2 2	4 25 27 6 28 4 25 27 6 28 2 25 27 6 27	13 2 2 51	3 15 1 5 3 10 1 5 3 6 1 5 3 1 1 5	14 2 2 5 14 4 2 5 14 6 2 5	4 3 0 39 4 4 0 39 4 6 0 39	15 55 1 49	18 11 14 40 18 10 14 41 18 10 14 41	12 54 13 26	4 30 4 32 4 34 4 36	2 10 4 56 2 11 4 56 2 12 4 55
M23 T 24 W25 T 26 F 27 S 28	11 8 11 29 11 50 12 11 12 32 12 52	7 55 1 32 4 8 2 30 0 12 3 21 3n44 4 3	5 38 1 5 6 19 1 4	58 25 22 6 25 55 25 18 6 22 51 25 12 6 20 47 25 6 6 16	12 52 2 47 12 42 2 43 12 31 2 39 12 20 2 35 12 9 2 31 11 58 2 27	2 56 1 6 2 52 1 6 2 47 1 6 2 43 1 6 2 38 1 6 2 34 1 6	14 11 2 4 14 13 2 4 14 15 2 4 14 17 2 4	4 9 0 39 4 10 0 39 4 12 0 39 4 13 0 39	15 54 1 49 15 54 1 49	18 9 14 42 18 9 14 42 18 8 14 42 18 8 14 43		4 38 4 40 4 42 4 44 4 46 4 48	2 15 4 55 2 16 4 54
S 29 M30 T 31	13 12 13 32 13 s52	-	8 22 1 3	33 24 39 6 2	11 47 2 24 11 35 2 20 11 s24 2 s16		14 23 2 4	4 17 0 39	15 52 1 50 15 52 1 50 15n51 1 s50	18 7 14 44	13 10 13 33 13 14 13 34 13n19 13n36	4 50 4 52 4n54	2 18 4 53 2 19 4 53 2 s 20 4 n 5 3

Julian Day Number = 2349184.5, Delta T = 10.48 sec Ecliptic obliquity = $23^{\circ}28'26$, Nutation = $-0^{\circ}00'11$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}49'41$, Lahiri = $19^{\circ}56'41$ Greg. Calendar

NOVEMBER 1719 00:00 UT

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Day	Sid.t	0	D	ğ	Q.	♂	4	ħ)Å(卉	В	S.	Ω	Ç	ķ	Day
W 1	2 38 38	7 M 59'54	19 I 7	28 ≏ 35	23°R16	6 ∺ 30	26 Mp 52	15 M .16	12 ≏ 27	19°R24	18 m 25	24°R31	23 N 47	23 Y 18	12°R34	W 1
T 2	2 42 35	9° 0'04	19528	0 M .14	22M50	6°53	27° 3	15°23	12°31	19 8 23	18°26	$24\Omega 22$	23°44	23°25	12) 33	T 2
F 3	2 46 31	10° 0'15	14° 0	1°52	22°21	7°16	27°14	15°30	12°34	19°21	18°28	24°17	23°41	23°32	12°32	F 3
S 4	2 50 28	11° 0'29	26°48	3°31	21°52	7°40	27°25	15°37	12°37	19°19	18°30	24°14	23°38	23°38	12°30	S 4
S 5	2 54 24	12° 0'45	9 Ω 53	5° 9	21°20	8° 5	27°36	15°44	12°41	19°18	18°31	24°D14	23°35	23°45	12°29	S 5
M 6	2 58 21	13° 1'03	23°20	6°47	20°47	8°29	27°47	15°52	12°44	19°16	18°32	24°R14	23°32	23°52	12°28	M 6
T 7	3 2 17	14° 1'22	7Mp11	8°24	20°13	8°54	27°57	15°59	12°48	19°14	18°34	24°13	23°28	23°58	12°27	T 7
W 8	3 6 14	15° 1'44	21°28	10° 2	19°38	9°20	28° 8	16° 6	12°51	19°13	18°35	24°11	23°25	24° 5	12°26	W 8
T 9	3 10 10	16° 2'08	6 亞 8	11°39	19° 3	9°46	28°19	16°13	12°54	19°11	18°37	24° 6	23°22	24°12	12°25	T 9
F 10	3 14 7	17° 2'33	21° 9	13°16	18°27	10°12	28°29	16°20	12°58	19° 9	18°38	23°59	23°19	24°18	12°25	F 10
S 11	3 18 4	18° 3'01	6M21	14°53	17°50	10°39	28°40	16°27	13° 1	19° 7	18°39	23°49	23°16	24°25	12°24	S 11
S 12	3 22 0	19° 3'30	21°34	16°29	17°14	11° 5	28°50	16°35	13° 4	19° 6	18°41	23°37	23°12	24°32	12°23	S 12
M13	3 25 57	20° 4'00	6 ₮ 37	18° 5	16°38	11°33	29° 1	16°42	13° 7	19° 4	18°42	23°25	23° 9	24°39	12°22	M13
T 14	3 29 53	21° 4'33	21°21	19°41	16° 2	12° 0	29°11	16°49	13°11	19° 2	18°43	23°15	23° 6	24°45	12°22	T 14
W15	3 33 50	22° 5'06	5 云 39	21°16	15°27	12°28	29°21	16°56	13°14	19° 1	18°44	23° 7	23° 3	24°52	12°21	W15
T 16	3 37 46	23° 5'41	19°26	22°51	14°53	12°56	29°31	17° 3	13°17	18°59	18°46	23° 1	23° 0	24°59	12°21	T 16
F 17	3 41 43	24° 6'18	2≈44	24°26	14°21	13°25	29°41	17°10	13°20	18°57	18°47	22°58	22°57	25° 5	12°20	F 17
S 18	3 45 40	25° 6'55	15°35	26° 1	13°49	13°54	29°51	17°17	13°23	18°56	18°48	22°57	22°53	25°12	12°20	S 18
S 19	3 49 36	26° 7'34	28° 3	27°36	13°20	14°23	0 亚 0	17°25	13°26	18°54	18°49	22°57	22°50	25°19	12°20	S 19
M20	3 53 33	27° 8'13	10) (14	29°10	12°52	14°52	0°10	17°32	13°29	18°52	18°50	22°57	22°47	25°26	12°20	M20
T 21	3 57 29	28° 8'54	22°13	0 ∡ 145	12°26	15°22	0°19	17°39	13°32	18°51	18°51	22°55	22°44	25°32	12°19	T 21
W22	4 1 26	29° 9'36	4 Υ 5	2°19	12° 1	15°52	0°29	17°46	13°35	18°49	18°52	22°50	22°41	25°39	12°19	W22
T 23	4 5 22	0 才 10'19	15°54	3°53	11°40	16°22	0°38	17°53	13°38	18°47	18°53	22°43	22°37	25°46	12°19	T 23
F 24	4 9 19	1°11'03	27°45	5°26	11°20	16°52	0°47	18° 0	13°41	18°46	18°54	22°33	22°34	25°52	12°D19	F 24
S 25	4 13 15	2°11'48	9 8 40	7° 0	11° 3	17°23	0°56	18° 7	13°44	18°44	18°55	22°21	22°31	25°59	12°19	S 25
S 26	4 17 12	3°12'35	21°41	8°34	10°48	17°54	1° 5	18°14	13°47	18°42	18°56	22° 6	22°28	26° 6	12°19	S 26
M27	4 21 8	4°13'22	3 Ⅱ 49	10° 7	10°35	18°25	1°14	18°21	13°49	18°41	18°57	21°52	22°25	26°12	12°19	M27
T 28	4 25 5	5°14'11	16° 6	11°41	10°26	18°56	1°23	18°28	13°52	18°39	18°57	21°38	22°22	26°19	12°20	T 28
W29	4 29 2	6°15'01	28°31	13°14	10°18	19°28	1°32	18°35	13°55	18°37	18°58	21°27	22°18	26°26	12°20	W29
T 30	4 32 58	7 ₹ 15'53	1195 6	14 × 148	10ML13	20 米 0	1 ≏ 40	18 M .42	13 ≏ 57	18 8 36	18 m 59	21 Ω 18	22 Ω 15	26 Y 33	12) 20	T 30

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F 3	14 50	19 27 4 1 19 29 3 16		5 24 0 5 41 9 23 44 5 33	11 0 2 9 10 48 2 6				15 50 1 50 15 50 1 50		13 25 13 38 13 27 13 39		2 22 4 52 2 22 4 52
S 4	15 9				10 36 2 3	-	-		15 49 1 50		13 28 13 40	-	2 23 4 52
S 5	15 28	16 35 1 15	12 22 0 5	7 23 10 5 14	10 24 1 59	1 59 1 7	14 36 2 4	4 25 0 39	15 49 1 50	18 6 14 46	13 28 13 41	5 5	2 24 4 51
M 6	15 46											-	2 24 4 51
T 7	16 4	9 56 1n 8		3 22 31 4 52							13 28 13 43		2 25 4 51
W 8	16 22	5 31 2 19							15 48 1 50		13 29 13 44		2 26 4 50
T 9 F 10	16 40			0 21 48 4 28					15 47 1 50		13 30 13 45		2 26 4 50
S 11	16 57 17 14	4s21 4 13 9 8 4 47		3 21 25 4 15 6 21 2 4 1	9 21 1 43 9 8 1 40		-		15 47 1 50 15 46 1 50		13 33 13 46 13 36 13 47	-	2 27 4 50 2 28 4 49
S 12	17 31			0 20 38 3 47	8 55 1 37				15 46 1 50		13 40 13 48		
M13	-,			3 20 14 3 33		1 27 1 9	-		15 45 1 50		13 44 13 49		2 29 4 49
T 14	18 3					1 23 1 9			15 45 1 50		13 47 13 50	_	2 29 4 48
W15	18 19	19 39 3 42	18 16 0 10	0 19 25 3 3	8 15 1 29	1 19 1 9	14 57 2 3	4 38 0 39	15 44 1 50		13 50 13 51		2 30 4 48
T 16	18 34	19 18 2 47	18 47 0 1	7 19 0 2 48	8 2 1 26	1 15 1 9	14 59 2 3	4 39 0 39	15 44 1 50	18 4 14 51	13 52 13 52	5 27	2 30 4 48
F 17	18 50	17 53 1 45	19 17 0 24	4 18 35 2 32	7 48 1 23	1 11 1 9	15 1 2 3	4 40 0 39	15 44 1 50	18 4 14 52	13 53 13 53	5 29	2 31 4 47
S 18	19 4	15 34 0 39	19 47 0 30	0 18 11 2 17	7 35 1 20	1 8 1 10	15 3 2 3	4 41 0 39	15 43 1 50	18 4 14 52	13 53 13 54	5 31	2 31 4 47
S 19	19 19		20 15 0 3		7 21 1 17	1 4 1 10			15 43 1 50		13 53 13 55		
M20	19 33										13 53 13 56		
T 21	19 47	5 22 2 28							15 42 1 50	-	13 54 13 57		2 32 4 46
W22	20 0						-		15 41 1 50		13 55 13 59		2 33 4 46
T 23 F 24	20 13 20 26			1 16 18 1 0 7 15 58 0 45		0 ., 1 10			15 41 1 50 15 40 1 49		13 58 14 (14 1 14 1	5 41 5 43	2 33 4 45 2 33 4 45
S 25	20 26			3 15 39 0 31	6 11 1 5 5 57 1 2		15 14 2 3 15 16 2 4		15 40 1 49			5 45	2 33 4 45 2 34 4 45
M27	20 50	13 23 5 0 16 8 4 54	23 3 1 13 23 23 1 24		i -	0 39 1 11 0 36 1 11			15 40 1 49 15 39 1 49		14 10 14 3 14 14 14 4	5 47	2 34 4 44 2 34 4 44
	21 12		23 41 1 29		5 13 0 55	0 30 1 11			15 39 1 49		14 14 14 2	5 51	2 34 4 44 2 34 4 44
			23 58 1 34				15 24 2 4				14 22 14 6	5 54	
	-			9 14s19 0n37			15 s26 2n 4			18n 5 14n58			

 $\label{eq:Julian Day Number = 2349215.5, Delta T = 10.48 sec} \\ Ecliptic obliquity = 23°28'25, Nutation = -0°00'12, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°49'45, Lahiri = 19°56'45Greg. Calendar \\ \\$

DECEMBER 1719 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)ұ(卉	Р	R	Ω	Ç	, k	Day
F 1	4 36 55	8 √ 16'45	23951	16 ₹ 21	10°D11	20) 32	1 <u>₽</u> 48	18 M .49	14 <u>₽</u> 0	18°R34	19 m) 0	21°R12	22 Ω 12	26 Y 39	12) (21	F 1
S 2	4 40 51	9°17'39	6 Ω 47	17°55	10 M .11	21° 4	1°57	18°56	14° 2	18 8 33	19° 0	218 9	22° 9	26°46	12°21	S 2
S 3	4 44 48	10°18'34	19°58	19°28	10°13	21°36	2° 5	19° 3	14° 5	18°31	19° 1	21°D 8	22° 6	26°53	12°22	S 3
M 4	4 48 44	11°19'31	3 m/24	21° 1	10°18	22° 9	2°13	19° 9	14° 7	18°30	19° 2	21° 8	22° 3	26°59	12°22	M 4
T 5	4 52 41	12°20'28	17° 7	22°34	10°26	22°41	2°21	19°16	14°10	18°28	19° 2	21°R 9	21°59	27° 6	12°23	T 5
W 6	4 56 38	13°21'27	1 ≏ 10	24° 7	10°35	23°14	2°28	19°23	14°12	18°27	19° 3	21° 7	21°56	27°13	12°24	W 6
T 7	5 0 34	14°22'27	15°32	25°41	10°47	23°47	2°36	19°30	14°15	18°25	19° 3	21° 4	21°53	27°20	12°24	T 7
F 8	5 431	15°23'28	0 M _10	27°14	11° 1	24°20	2°44	19°36	14°17	18°24	19° 4	20°57	21°50	27°26	12°25	F 8
S 9	5 8 27	16°24'31	15° 0	28°46	11°17	24°54	2°51	19°43	14°19	18°22	19° 4	20°49	21°47	27°33	12°26	S 9
S 10	5 12 24	17°25'34	29°53	0 ට 19	11°35	25°27	2°58	19°50	14°21	18°21	19° 5	20°39	21°43	27°40	12°27	S 10
M11	5 16 20	18°26'38	14 ×7 42	1°52	11°55	26° 1	3° 5	19°56	14°24	18°19	19° 5	20°29	21°40	27°46	12°28	M11
T 12	5 20 17	19°27'43	29°16	3°24	12°17	26°35	3°12	20° 3	14°26	18°18	19° 5	20°19	21°37	27°53	12°29	T 12
W13	5 24 13	20°28'49	13 云 30	4°56	12°41	27° 9	3°19	20° 9	14°28	18°16	19° 6	20°12	21°34	28° 0	12°30	W13
T 14	5 28 10	21°29'55	27°19	6°27	13° 7	27°43	3°26	20°16	14°30	18°15	19° 6	20° 7	21°31	28° 7	12°31	T 14
F 15	5 32 7	22°31'02	10≈40	7°58	13°34	28°18	3°32	20°22	14°32	18°14	19° 6	20° 4	21°28	28°13	12°32	F 15
S 16	5 36 3	23°32'09	23°36	9°29	14° 3	28°52	3°38	20°29	14°34	18°12	19° 7	20°D 4	21°24	28°20	12°34	S 16
S 17	5 40 0	24°33'16	6 ∺ 9	10°58	14°34	29°27	3°45	20°35	14°36	18°11	19° 7	20° 5	21°21	28°27	12°35	S 17
M18	5 43 56	25°34'23	18°24	12°27	15° 6	0 Υ 1	3°51	20°41	14°37	18°10	19° 7	20° 6	21°18	28°33	12°36	M18
T 19	5 47 53	26°35'31	0 Υ 25	13°55	15°40	0°36	3°56	20°48	14°39	18° 9	19° 7	20°R 6	21°15	28°40	12°38	T 19
W20	5 51 49	27°36'39	12°18	15°21	16°15	1°11	4° 2	20°54	14°41	18° 7	19° 7	20° 4	21°12	28°47	12°39	W20
T 21	5 55 46	28°37'46	24° 9	16°45	16°51	1°46	4° 8	21° 0	14°43	18° 6	19° 7	20° 1	21° 9	28°54	12°41	T 21
F 22	5 59 42	29°38'54	68 1	18° 8	17°29	2°21	4°13	21° 6	14°44	18° 5	19°R 7	19°55	21° 5	29° 0	12°42	F 22
S 23	6 3 39	0 る 40'03	17°59	19°28	18° 8	2°57	4°18	21°12	14°46	18° 4	19° 7	19°47	21° 2	29° 7	12°44	S 23
S 24	6 7 36	1°41'11	0 I I 6	20°46	18°48	3°32	4°24	21°18	14°47	18° 3	19° 7	19°38	20°59	29°14	12°46	S 24
M25	6 11 32	2°42'19	12°23	22° 0	19°30	4° 8	4°28	21°24	14°49	18° 2	19° 7	19°29	20°56	29°20	12°48	M25
T 26	6 15 29	3°43'28	24°53	23°11	20°12	4°43	4°33	21°30	14°50	18° 0	19° 7	19°20	20°53	29°27	12°49	T 26
W27	6 19 25	4°44'36	7935	24°17	20°56	5°19	4°38	21°36	14°52	17°59	19° 7	19°13	20°49	29°34	12°51	W27
T 28	6 23 22	5°45'45	20°29	25°18	21°41	5°55	4°42	21°42	14°53	17°58	19° 7	19° 7	20°46	29°41	12°53	T 28
F 29	6 27 18	6°46'54	3 Ω 35	26°13	22°27	6°31	4°47	21°48	14°54	17°57	19° 7	19° 4	20°43	29°47	12°55	F 29
S 30	6 31 15	7°48'03	16°53	27° 1	23°13	7° 6	4°51	21°54	14°55	17°56	19° 6	19°D 2	20°40	29°54	12°57	S 30
S 31	6 35 11	8 국 49'13	0 m 21	27 궁 42	24M 1	7 Ƴ 43	4 Ω 55	21 M 59	14 ≏ 56	17 8 56	19 m 6	19⋒ 3	20 Ω 37	0 8 1	12) 59	S 31

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S 3 M 4 T 5	22 18	11 17 1n 5 7 8 2 13	25 15 1 5	55 13 36 1 24 59 13 28 1 34	4 0 0 44 3 45 0 42 3 31 0 40	0 14 1 13 0 11 1 13	15 35 2 4	4 58 0 39 4 59 0 39	15 36 1 49	18 6 15 0 18 7 15 1	14 28 14 10 14 28 14 11 14 28 14 12	6 4 6 6	
W 6 T 7 F 8 S 9	22 26 22 33 22 40 22 47	2s19 4 7 7 7 4 44	25 29 2	2 13 22 1 45 5 13 16 1 54 8 13 12 2 4 10 13 8 2 12	3 16 0 37 3 1 0 35 2 46 0 33 2 31 0 31	0 8 1 13 0 5 1 13 0 2 1 14 0s 0 1 14	15 38 2 4	5 1 0 40 5 2 0 40		18 7 15 2 18 7 15 3	14 29 14 13 14 30 14 14 14 32 14 15 14 35 14 16	6 10 6 12	
S 10 M11 T 12 W13	22 53 22 58 23 3 23 8	18 1 4 37 19 32 3 57	25 40 2 1 25 41 2 1 25 40 2 1 25 38 2 1	13 13 4 2 29 15 13 4 2 36	2 16 0 30 2 0 0 28 1 45 0 26 1 30 0 24	0 3 1 14 0 6 1 14 0 8 1 15 0 11 1 15	15 45 2 4 15 47 2 4	5 4 0 40 5 5 0 40	15 34 1 49 15 33 1 49	18 8 15 4 18 9 15 5	14 38 14 17 14 41 14 18 14 44 14 19 14 46 14 20	6 20	2 35 4 39
T 14 F 15 S 16	23 12	18 47 1 59 16 47 0 50	25 34 2 1 25 29 2 1	15 13 6 2 50 15 13 8 2 57 14 13 10 3 3	1 15 0 22 0 59 0 20 0 44 0 19	0 13 1 15 0 15 1 15 0 18 1 16	15 50 2 4 15 52 2 4	5 7 0 40 5 7 0 40	15 33 1 49 15 32 1 49	18 9 15 6 18 10 15 6	14 48 14 21 14 49 14 22 14 49 14 23	6 24 6 26	2 35 4 38 2 35 4 38
S 17 M18 T 19 W20	23 22 23 24 23 26 23 27	6 50 2 26 2 53 3 19 1n 8 4 3	24 52 2 24 39 2	11 13 18 3 13 8 13 23 3 18 5 13 29 3 23	0 29 0 17 0 13 0 15 0n 2 0 13 0 18 0 12	0 20 1 16 0 22 1 16 0 24 1 16 0 26 1 17	15 57 2 5 15 58 2 5 16 0 2 5	5 10 0 40 5 10 0 40 5 11 0 40	15 31 1 49 15 31 1 49	18 11 15 8 18 11 15 8 18 12 15 9	14 49 14 24 14 48 14 25 14 48 14 26 14 49 14 27	6 32 6 34 6 36	2 34 4 37 2 34 4 37 2 34 4 36
T 21 F 22 S 23		8 51 4 58 12 18 5 7	24 10 1 5 23 53 1 5	50 13 49 3 35	0 33 0 10 0 48 0 9 1 4 0 7	0 28 1 17 0 30 1 17 0 32 1 17	16 3 2 5 16 4 2 5	5 12 0 40 5 13 0 40	15 30 1 49 15 30 1 49	18 13 15 10 18 13 15 11	14 50 14 28 14 52 14 29 14 54 14 30	6 40 6 42	2 33 4 36 2 33 4 35
S 24 M25 T 26 W27	23 27 23 25	17 38 4 43 19 12 4 10	23 35 1 4 23 16 1 3 22 56 1 2 22 35 1 1	28 14 14 3 44	1 19 0 5 1 35 0 4 1 50 0 2 2 6 0 1	0 34 1 18 0 35 1 18 0 37 1 18 0 39 1 18	16 7 2 5 16 9 2 5	5 14 0 40 5 14 0 40	15 29 1 48	18 14 15 12 18 15 15 12	15 0 14 32 15 3 14 33	6 49	-
T 28 F 29 S 30	23 21 23 18	19 28 2 28 18 2 1 23	22 13 1 21 52 0 5	8 14 32 3 48 56 14 42 3 50 14 14 52 3 52	2 22 On 1 2 37 O 2 2 53 O 3	0 40 1 19 0 42 1 19	16 12 2 6	5 15 0 40 5 16 0 40		18 16 15 13 18 16 15 14	15 7 14 35 15 8 14 36	6 53	2 31 4 34 2 30 4 34 2 30 4 33
S 31	23 s11	12n19 1n 1	21 s 8 0 s3	30 15 s 2 3n53	3n 8 0n 5	0s44 1n19	16s16 2n 6	5 s17 0n40	15n28 1 s48	18n18 15n15	15n 8 14n38	6n59	2 s29 4n33

Julian Day Number = 2349245.5, Delta T = 10.48 sec Ecliptic obliquity = $23^{\circ}28'25$, Nutation = - $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}49'49$, Lahiri = $19^{\circ}56'50$ Greg. Calendar