

Astrodienst Ephemeris Tables for the year 1820

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 1820 00:00 UT

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Day	Sid.t	0	D	ğ	·	ď	4	ħ)ф(并	Р	រា	ນ	Ç	Ŗ	Day
S 1	6 38 16	9 ට 33'10	15933	22°R19	29 궁 52	1°R44	18 ≈ 19	25 ∺ 0	25 × 35	28 × 149	25) 35	6°R10	6 Υ 28	19 Ω 16	24) 58	S 1
S 2	6 42 13	10°34'19	27°38	22 × 8	1≈ 7	1 Ω 25	18°32	25° 3	25°38	28°51	25°36	5 Υ 55	6°25	19°23	24°59	S 2
M 3	6 46 10	11°35'28	9Ω36	22°D 6	2°22	1° 5	18°44	25° 7	25°42	28°53	25°36	5°43	6°22	19°29	25° 1	M 3
T 4	6 50 6	12°36'37	21°28	22°13	3°37	0°44	18°57	25°11	25°45	28°55	25°37	5°33	6°19	19°36	25° 2	T 4
W 5	6 54 3	13°37'45	3 Mp 16	22°28	4°52	0°23	19°10	25°14	25°49	28°58	25°38	5°26	6°15	19°43	25° 4	W 5
T 6	6 57 59	14°38'54	15° 4	22°50	6° 7	0° 2	19°23	25°18	25°52	29° 0	25°38	5°22	6°12	19°49	25° 6	T 6
F 7	7 1 56	15°40'03	26°57	23°19	7°22	299540	19°36	25°22	25°56	29° 2	25°39	5°21	6° 9	19°56	25° 7	F 7
S 8	7 5 52	16°41'12	8 ₾ 59	23°55	8°37	29°17	19°50	25°26	25°59	29° 4	25°40	5°D21	6° 6	20° 3	25° 9	S 8
S 9	7 9 49	17°42'21	21°16	24°35	9°52	28°54	20° 3	25°31	26° 3	29° 6	25°40	5°R21	6° 3	20° 9	25°11	S 9
M10	7 13 45	18°43'31	3 M .53	25°21	11° 7	28°31	20°16	25°35	26° 6	29° 9	25°41	5°20	6° 0	20°16	25°13	M10
T 11	7 17 42	19°44'40	16°55	26°11	12°22	28° 8	20°30	25°39	26° 9	29°11	25°42	5°17	5°56	20°23	25°15	T 11
W12	7 21 39	20°45'49	0 ∡ 126	27° 5	13°36	27°44	20°43	25°44	26°13	29°13	25°42	5°11	5°53	20°30	25°17	W12
T 13	7 25 35	21°46'58	14°27	28° 3	14°51	27°20	20°57	25°48	26°16	29°15	25°43	5° 3	5°50	20°36	25°18	T 13
F 14	7 29 32	22°48'06	28°56	29° 4	16° 6	26°56	21°10	25°53	26°20	29°17	25°44	4°53	5°47	20°43	25°21	F 14
S 15	7 33 28	23°49'15	13 る 49	0중 7	17°21	26°32	21°24	25°57	26°23	29°19	25°45	4°42	5°44	20°50	25°23	S 15
S 16	7 37 25	24°50'23	28°56	1°13	18°36	26° 8	21°37	26° 2	26°26	29°21	25°46	4°31	5°41	20°56	25°25	S 16
M17	7 41 21	25°51'30	14 ≈ 8	2°22	19°50	25°44	21°51	26° 7	26°29	29°24	25°46	4°22	5°37	21° 3	25°27	M17
T 18	7 45 18	26°52'37	29°14	3°32	21° 5	25°20	22° 5	26°12	26°33	29°26	25°47	4°15	5°34	21°10	25°29	T 18
W19	7 49 15	27°53'42	14) (5	4°45	22°20	24°56	22°18	26°17	26°36	29°28	25°48	4°11	5°31	21°16	25°31	W19
T 20	7 53 11	28°54'47	28°34	5°59	23°34	24°32	22°32	26°22	26°39	29°30	25°49	4°D 9	5°28	21°23	25°34	T 20
F 21	7 57 8	29°55'51	12 Y 40	7°15	24°49	24° 9	22°46	26°27	26°42	29°32	25°50	4° 9	5°25	21°30	25°36	F 21
S 22	8 1 4	0≈56'54	26°21	8°32	26° 4	23°45	23° 0	26°32	26°46	29°34	25°51	4°R10	5°21	21°36	25°38	S 22
S 23	8 5 1	1°57'55	9 8 40	9°51	27°18	23°22	23°14	26°38	26°49	29°36	25°52	4°10	5°18	21°43	25°41	S 23
M24	8 8 57	2°58'56	22°40	11°11	28°33	23° 0	23°28	26°43	26°52	29°38	25°53	4° 8	5°15	21°50	25°43	M24
T 25	8 12 54	3°59'56	5 Ⅱ 23	12°32	29°47	22°37	23°42	26°49	26°55	29°40	25°54	4° 3	5°12	21°56	25°46	T 25
W26	8 16 50	5° 0'54	17°53	13°54	1 米 2	22°16	23°56	26°54	26°58	29°42	25°55	3°56	5° 9	22° 3	25°48	W26
T 27	8 20 47	6° 1'51	09୍ତ12	15°17	2°16	21°54	24°10	27° 0	27° 1	29°44	25°56	3°47	5° 6	22°10	25°51	T 27
F 28	8 24 44	7° 2'48	12°22	16°41	3°30	21°33	24°24	27° 5	27° 4	29°45	25°57	3°36	5° 2	22°16	25°54	F 28
S 29	8 28 40	8° 3'43	24°25	18° 7	4°45	21°13	24°38	27°11	27° 7	29°47	25°58	3°25	4°59	22°23	25°56	S 29
S 30	8 32 37	9° 4'37	6 Ω 22	1 <u>9</u> °33	5°59	20°53	24°52	27°17	27°10	29°49	25°59	3°14	4°56	22°30	25°59	S 30
M31	8 36 33	10≈ 5'30	18 Ω 15	21궁 0	7 ∺ 13	20934	25≈ 7	27 米 23	27 × 13	29 × 751	26 米 0	3 ℃ 4	4 Υ53	22 N 37	26 米 2	M31

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	decl	decl la	at	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl lat
S 1	23 s 7	27n27	4n55	20 s 8	3n 7	21 s40	1 s30	23n36	3n55	16s 9	0 s50	4s 5	2s16	23 s32	0s 9	22 s 19	1n 9	16 s 23 15 s 59	2n27	2n34	18n39	1n12 3n29
S 2 M 3 T 4	22 58	21 52	4 38 4 9 3 30	20 16	2 59	21 25 21 9 20 52	1 31 1 32 1 33		3 57 3 59 4 1		0 50 0 50 0 50	4 3 4 1 4 0	2 16	23 33 23 33 23 33	0 9	22 19 22 19 22 19	1 9	16 23 15 59 16 22 15 59 16 22 15 58	2 16	2 32	18 36 18 33 18 31	1 12 3 29 1 12 3 29 1 13 3 28
W 5 T 6 F 7 S 8	22 46 22 40 22 33 22 25	7 30 1 54		20 30 20 38 20 48 20 58	2 38 2 30	20 35 20 17 19 59 19 40	1 35 1 35	24 9	4 5 4 6	15 53 15 49 15 45 15 41	0 50 0 50 0 50 0 50	3 58 3 56 3 55 3 53	2 15 2 15	23 33 23 33 23 33 23 33	0 9 0 9	22 19 22 19 22 19 22 19	1 9 1 9	16 21 15 58 16 21 15 58 16 20 15 57 16 19 15 57	2 8 2 8	2 28 2 27	18 28 18 25 18 23 18 20	1 13 3 28 1 14 3 28 1 14 3 28 1 15 3 27
S 9 M10 T 11 W12 T 13 F 14 S 15	22 18 22 9 22 1 21 52 21 42 21 32	9 35 15 6 20 7 24 19 27 14 28 28	1 23 2 25 3 21 4 9 4 43 5 0 4 58	21 9 21 20 21 31 21 41 21 52 22 2	2 13 2 3 1 54 1 45 1 35 1 26	19 20	1 36 1 37 1 37 1 37 1 37 1 37	24 28 24 34 24 41 24 47 24 53 24 58	4 10 4 11 4 12 4 14 4 15 4 16	15 36 15 32 15 28 15 24 15 19 15 15 15 11	0 50 0 50 0 50 0 50	3 51 3 49 3 47 3 45 3 43 3 41 3 39	2 15 2 15 2 15 2 14 2 14 2 14	23 33 23 34 23 34 23 34 23 34 23 34 23 34	0 9 0 9 0 9 0 9 0 9	22 19	1 9 1 9 1 9 1 9 1 9	16 19 15 57 16 18 15 56 16 18 15 56 16 17 15 56 16 17 15 55 16 16 15 55 16 15 15 55	2 7 2 6 2 4 2 1 1 57	2 24 2 23 2 22 2 20 2 19	18 17 18 14 18 12 18 9 18 6 18 3	1 15 3 27 1 16 3 27 1 16 3 27 1 17 3 26 1 17 3 26 1 18 3 26 1 18 3 26
S 16 M17 T 18 W19 T 20 F 21 S 22	21 0 20 48 20 36 20 24 20 11	20 19 14 28 7 53 1 1 5n42	4 35 3 53 2 54 1 45 0 30 0n45 1 55	22 29 22 37 22 43 22 49 22 54	0 58 0 48 0 39 0 30 0 22	16 49 16 25 16 1 15 37 15 12 14 46 14 21	1 37 1 37 1 37 1 37 1 36	25 10 25 15 25 20 25 25 25 30 25 34 25 39	4 19 4 20 4 20		0 50	3 37 3 35 3 33 3 31 3 29 3 27 3 24	2 14 2 13 2 13 2 13 2 13	23 34 23 34 23 34 23 34 23 35 23 35 23 35	0 9 0 9 0 9 0 9 0 9	22 19 22 19 22 19 22 19 22 19 22 19 22 19 22 19	1 9 1 9 1 9 1 9	16 15 15 55 16 14 15 54 16 14 15 54 16 13 15 54 16 12 15 53 16 12 15 53 16 11 15 53	1 44 1 41 1 40 1 39 1 39	2 14 2 13 2 12 2 10 2 9	17 58 17 55 17 52 17 50 17 47 17 44 17 41	1 20 3 25
S 23 M24 T 25 W26 T 27 F 28 S 29	19 31 19 17 19 2 18 47 18 32 18 16	22 8 25 36 27 46 28 32 27 53 25 55		23 2 23 0 22 56	0s 4 0 12 0 20 0 27 0 35 0 42	12 34 12 7 11 39 11 11	1 32 1 31 1 30	25 47 25 51 25 54 25 57 26 0 26 3	4 20 4 20 4 20 4 20 4 19 4 19		0 50 0 50 0 50 0 50 0 50 0 50	3 22 3 20 3 18 3 15 3 13 3 11 3 8	2 12 2 12 2 12 2 12 2 12 2 12 2 12	23 35 23 35 23 35 23 35 23 35 23 35 23 35	0 9 0 9 0 9 0 9 0 9	22 19 22 19 22 19 22 19 22 19	1 9 1 9 1 9 1 9 1 9	16 10 15 53 16 10 15 52 16 9 15 52 16 8 15 52 16 8 15 52 16 7 15 51 16 7 15 51	1 39 1 37 1 34 1 30 1 26 1 21	2 5 2 4 2 3 2 2 2 0 1 59	17 33 17 30 17 27 17 24 17 22	1 24 3 24 1 25 3 24 1 26 3 24 1 27 3 23 1 27 3 23 1 28 3 23 1 29 3 23
S 30 M31	-	22 49 18n48	4 16 3n36	22 51 22 s44		10 42 10s14		26 6 26n 8	4 18 4n17	14 2 13 s 5 7		3 6 3s 3		23 35 23 s36		22 19 22 s 19		16 6 15 51 16s 5 15s51			17 19 17n16	1 30 3 23 1n31 3n22

Julian Day Number = 2385800.5, Delta T = 16.60 sec Ecliptic obliquity = $23^{\circ}27'54$, Nutation = $-0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}13'37$, Lahiri = $21^{\circ}20'37$

FEBRUARY 1820 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	24	ħ	ď	¥	Р	Ŗ	Ω	Ç	ę,	Day
T 1	8 40 30	11≈ 6'22	0 m y 5	22 중 27	8 ¥ 28	20°R15	25≈21	27) (28	27 ∡ 16	29 х 53	26) 2	2°R57	4Υ 50	22\$\Omega43	26 米 5	T 1
W 2	8 44 26	12° 7'13	11°53	23°56	9°42	19957	25°35	27°34	27°19	29°55	26° 3	2 Υ 52	4°47	22°50	26° 7	W 2
T 3	8 48 23	13° 8'03	23°43	25°26	10°56	19°40	25°49	27°40	27°21	29°56	26° 4	2°49	4°43	22°57	26°10	T 3
F 4	8 52 19	14° 8'52	5 ₾ 38	26°56	12°10	19°23	26° 4	27°46	27°24	29°58	26° 5	2°D49	4°40	23° 3	26°13	F 4
S 5	8 56 16	15° 9'39	17°42	28°27	13°24	19° 7	26°18	27°53	27°27	0 중 0	26° 6	2°50	4°37	23°10	26°16	S 5
S 6	9 0 12	16°10'26	29°58	29°59	14°38	18°52	26°32	27°59	27°30	0° 2	26° 7	2°51	4°34	23°17	26°19	S 6
M 7	9 4 9	17°11'12	12 M 32	1≈32	15°52	18°37	26°47	28° 5	27°32	0° 3	26° 9	2°R52	4°31	23°23	26°22	M 7
T 8	9 8 6	18°11'57	25°28	3° 5	17° 6	18°23	27° 1	28°11	27°35	0° 5	26°10	2°52	4°27	23°30	26°25	T 8
W 9	9 12 2	19°12'41	8 ₹ 51	4°40	18°20	18°10	27°15	28°18	27°38	0° 7	26°11	2°50	4°24	23°37	26°28	W 9
T 10	9 15 59	20°13'24	22°42	6°15	19°34	17°58	27°30	28°24	27°40	0° 8	26°12	2°47	4°21	23°43	26°31	T 10
F 11	9 19 55	21°14'06	7중 2	7°51	20°48	17°47	27°44	28°30	27°43	0°10	26°14	2°41	4°18	23°50	26°34	F 11
S 12	9 23 52	22°14'47	21°48	9°28	22° 2	17°36	27°58	28°37	27°45	0°12	26°15	2°35	4°15	23°57	26°37	S 12
S 13	9 27 48	23°15'26	6≈54	11° 6	23°16	17°26	28°13	28°43	27°48	0°13	26°16	2°29	4°12	24° 3	26°40	S 13
M14	9 31 45	24°16'04	22°11	12°44	24°29	17°17	28°27	28°50	27°50	0°15	26°18	2°23	4° 8	24°10	26°44	M14
T 15	9 35 42	25°16'41	7) €26	14°24	25°43	17° 9	28°42	28°57	27°52	0°16	26°19	2°19	4° 5	24°17	26°47	T 15
W16	9 39 38	26°17'16	22°32	16° 4	26°57	17° 1	28°56	29° 3	27°55	0°18	26°20	2°17	4° 2	24°23	26°50	W16
T 17	9 43 35	27°17'49	7 Υ 18	17°45	28°10	16°55	29°11	29°10	27°57	0°19	26°22	2°D17	3°59	24°30	26°53	T 17
F 18	9 47 31	28°18'20	21°39	19°27	29°24	16°49	29°25	29°17	27°59	0°20	26°23	2°18	3°56	24°37	26°57	F 18
S 19	9 51 28	29°18'49	5 8 34	21°11	0 Υ 37	16°44	29°40	29°24	28° 1	0°22	26°24	2°20	3°53	24°43	27° 0	S 19
S 20	9 55 24	0 ∺ 19'17	19° 2	22°55	1°50	16°39	29°54	29°30	28° 4	0°23	26°26	2°21	3°49	24°50	27° 3	S 20
M21	9 59 21	1°19'43	2 II 5	24°40	3° 4	16°36	0 ∺ 9	29°37	28° 6	0°25	26°27	2°R22	3°46	24°57	27° 7	M21
T 22	10 3 17	2°20'07	14°48	26°25	4°17	16°33	0°23	29°44	28° 8	0°26	26°28	2°21	3°43	25° 3	27°10	T 22
W23	10 7 14	3°20'29	27°13	28°12	5°30	16°31	0°37	29°51	28°10	0°27	26°30	2°19	3°40	25°10	27°13	W23
T 24	10 11 11	4°20'49	9925	0 ∺ 0	6°43	16°30	0°52	29°58	28°12	0°28	26°31	2°15	3°37	25°17	27°17	T 24
F 25	10 15 7	5°21'07	21°27	1°49	7°56	16°D30	1° 6	0 Υ 5	28°14	0°30	26°33	2°11	3°33	25°23	27°20	F 25
S 26	10 19 4	6°21'23	3 Ω 22	3°39	9° 9	16°30	1°21	0°12	28°16	0°31	26°34	2° 6	3°30	25°30	27°24	S 26
S 27	10 23 0	7°21'37	15°13	5°30	10°22	16°31	1°35	0°19	28°17	0°32	26°36	2° 2	3°27	25°37	27°27	S 27
M28	10 26 57	8°21'50	27° 2	7°21	11°35	16°33	1°50	0°26	28°19	0°33	26°37	1°58	3°24	25°43	27°31	M28
T 29	10 30 53	9 ∺ 22'00	8 m 52	9) 14	12 Y 48	16935	2) 4	0 Υ 33	28 × 21	0 궁 34	26) 38	1 Y 55	3 Y 21	25 Ω 50	27) 34	T 29

Day	0	D		ğ		P		d	7	2	ł	ħ	ļ.)į	j (4	7	Е	<u>-</u>	U	U	Ç	ď	;
	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	17 s28	14n 3 2	n47 2	22 s37	1 s 2	9 s45	1 s27	26n10	4n17	13 s53	0 s 5 0	3 s 1	2s11	23 s36	0s 9	22s19	1n 9	16s 5	15 s50	1n10	1n55	17n13	1n32	3n22
W 2	17 11	8 49 1	50 2	22 28	1 8	9 16	1 25	26 12	4 16	13 48	0 50	2 58	2 11	23 36	0 9	22 19	1 9	16 4	15 50	1 8	1 54	17 10	1 33	3 22
T 3	16 54	3 15 0	49 2	22 17	1 14	8 46		26 14	4 15	13 43	0 51	2 56	2 11			22 19	1 9		15 50	1 7	1 53		1 34	3 22
F 4	16 36	2 s 2 9 0	s15 2	22 6	1 20	8 17		26 15	4 14	13 38	0 51	2 53	2 11	23 36	0 9	22 19			15 50		1 51	17 5	1 35	3 22
S 5	16 18	8 11 1	20 2	21 53	1 25	7 47	1 21	26 16	4 13	13 33	0 51	2 51	2 11	23 36	0 9	22 19	1 9	16 2	15 49	1 8	1 50	17 2	1 36	3 21
S 6	16 0	13 41 2	21 2	21 39	1 30	7 17	1 20	26 17	4 12	13 29	0 51	2 48	2 11	23 36	0 9	22 19	1 9	16 1	15 49	1 8	1 49	16 59	1 37	3 21
M 7	15 42	18 45 3	18 2	21 23	1 35	6 47	1 18	26 18	4 10	13 24	0 51	2 46	2 11	23 36	0 9	22 19	1 9	16 0	15 49	1 9	1 48	16 56	1 38	3 21
T 8	15 23	23 8 4	6 2	21 6	1 39	6 16	1 16	26 19	4 9	13 19	0 51	2 43	2 10	23 36	0 9	22 19	1 9	16 0	15 49	1 9	1 46	16 53	1 39	3 21
W 9	15 5	26 28 4		20 48	1 44	5 46			4 8	-	0 51	2 40	2 10	23 36	0 10	22 19	1 9	15 59		1 8	1 45	16 50	1 40	3 21
T 10	14 46		-		1 47	5 15		26 20	4 6	-	0 51	2 38		23 36		22 19				1 6		16 48	1 41	3 21
F 11	-	28 25 5			1 51	4 44		26 20		13 4	0 51	2 35		23 36		22 19		15 58		1 4		16 45	1 42	
S 12	14 7	26 31 4	53	19 44	1 54	4 13	1 9	26 20	4 4	12 59	0 51	2 32	2 10	23 36	0 10	22 19	1 9	15 57	15 48	1 2	1 41	16 42	1 43	3 20
S 13	13 47	22 42 4	16	19 20	1 57	3 42	1 7	26 20	4 2	12 54	0 51	2 30	2 10	23 36	0 10	22 19	1 9	15 56	15 48	0 59	1 40	16 39	1 44	3 20
M14	13 27	17 18 3		18 55	2 0	3 11	-	26 19	4 0	12 49	0 51	2 27	2 10	23 36	0 10	22 19		15 56		0 57	1 39	16 36	1 45	3 20
T 15	-			18 28	2 2	2 39		26 19		12 44	0 51	2 24		23 36		22 19		15 55		0 55		16 33	1 46	3 20
W16	12 46			18 0	2 4	2 8				12 39	0 51	2 21		23 37		22 19		15 54		0 55		16 30	1 47	3 20
T 17	12 25			17 31	2 5	1 37		26 17		12 34	0 51	2 19		23 37		22 19		15 54		0 55		16 27	1 49	3 19
F 18	-		44		2 6	1 5		26 16		12 29	0 51	2 16		23 37		22 19		15 53		0 55		16 24	1 50	3 19
S 19	11 43	16 5 2	52	16 27	2 7	0 34	0 53	26 15	3 52	12 24	0 51	2 13	2 9	23 37	0 10	22 19	1 9	15 52	15 47	0 56	1 33	16 22	1 51	3 19
S 20	11 22	21 9 3	48	15 53	2 7	0 2	0 50	26 14	3 50	12 19	0 51	2 10	2 9	23 37	0 10	22 19	1 9	15 52	15 47	0 56	1 31	16 19	1 52	3 19
M21	11 1	25 1 4	31	15 18	2 6	0n29	0 48	26 13	3 49	12 14	0 51	2 8	2 9	23 37	0 10	22 19	1 9	15 51	15 47	0 56	1 30	16 16	1 53	3 19
T 22				14 41	2 6	1 1		26 11		12 9	0 51	2 5		23 37		22 19		15 50		0 56		16 13	1 55	3 19
W23				14 3	2 5	1 32		26 10	3 45		0 52	2 2		23 37		22 19		15 50		0 55		16 10		
T 24			11	-	2 3	2 4	0 40			11 59	0 52	1 59		23 37		22 19		15 49		0 54	1 26		1 57	3 18
F 25				12 43	2 1	2 35	0 37			11 54	0 52	1 56		23 37		22 18		15 48		0 52		16 4	1 58	3 18
S 26	9 11	23 46 4	28	12 1	1 58	3 6	0 34	26 5	3 40	11 49	0 52	1 53	2 9	23 37	0 10	22 18	1 9	15 48	15 46	0 50	1 24	16 1	2 0	3 18
S 27	8 49	19 56 3	49	11 17	1 55	3 38	0 31	26 3	3 38	11 44	0 52	1 50	2 9	23 37	0 10	22 18	1 9	15 47	15 46	0 48	1 22	15 58	2 1	3 18
M28	8 27	15 20 3	0	10 32	1 51	4 9	0 29	26 1	3 36	11 39	0 52	1 48	2 9	23 37	0 10	22 18	1 9	15 46	15 46	0 47	1 21	15 55	2 2	3 18
T 29	8 s 4	10n 9 2	n 3	9 s 4 6	1 s47	4n40	0 s 2 6	25n59	3n34	11 s34	0 s52	1 s45	2s 9	23 s37	0s10	22 s 18	1n10	15 s46	15 s46	0n46	1n20	15n52	2n 3	3n18

Julian Day Number = 2385831.5, Delta T = 16.58 sec Ecliptic obliquity = $23^{\circ}27'55$, Nutation = $0^{\circ}00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}13'41$, Lahiri = $21^{\circ}20'42$

MARCH 1820 00:00 UT

Day	Sid.t	\odot	D	ğ	0	o ⁷)ı	t.)Å(),(В	n	ດ	C	ķ	Day
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W 1	10 34 50	10) 22'08	20 m 44	11) 8	14 Υ 1	16939	2) 18	0 Υ 41	28 × 23	0중35	26) (40	1°R53	3 Υ 18	25 Ω 57	27) 38	W 1
T 2	10 38 46	11°22'15	2 <u>₽</u> 41	13° 2	15°13	16°43	2°33	0°48	28°24	0°36	26°41	1°D53	3°14	26° 3	27°41	T 2
F 3	10 42 43	12°22'20	14°44	14°57	16°26	16°47	2°47	0°55	28°26	0°37	26°43	1 Y 53	3°11	26°10	27°45	F 3
S 4	10 46 39	13°22'24	26°56	16°53	17°38	16°52	3° 1	1° 2	28°27	0°38	26°44	1°54	3° 8	26°17	27°48	S 4
S 5	10 50 36	14°22'25	9 M .19	18°50	18°51	16°58	3°16	1°10	28°29	0°39	26°46	1°56	3° 5	26°24	27°52	S 5
M 6	10 54 33	15°22'25	21°58	20°47	20° 3	17° 5	3°30	1°17	28°30	0°40	26°47	1°57	3° 2	26°30	27°55	M 6
T 7	10 58 29	16°22'24	4 ₹ 55	22°44	21°16	17°12	3°44	1°24	28°32	0°41	26°49	1°58	2°59	26°37	27°59	T 7
W 8	11 2 26	17°22'21	18°13	24°41	22°28	17°20	3°59	1°31	28°33	0°42	26°50	1°R59	2°55	26°44	28° 3	W 8
T 9	11 6 22	18°22'16	1 る 55	26°39	23°40	17°28	4°13	1°39	28°35	0°43	26°52	1°58	2°52	26°50	28° 6	T 9
F 10	11 10 19	19°22'09	16° 1	28°36	24°52	17°37	4°27	1°46	28°36	0°44	26°53	1°57	2°49	26°57	28°10	F 10
S 11	11 14 15	20°22'01	0≈30	0 Υ 32	26° 4	17°47	4°41	1°54	28°37	0°44	26°55	1°56	2°46	27° 4	28°13	S 11
S 12	11 18 12	21°21'51	15°18	2°28	27°16	17°57	4°56	2° 1	28°38	0°45	26°56	1°55	2°43	27°10	28°17	S 12
M13	11 22 9	22°21'40	0 ∺ 20	4°22	28°28	18° 8	5°10	2°8	28°39	0°46	26°58	1°53	2°39	27°17	28°21	M13
T 14	11 26 5	23°21'26	15°27	6°14	29°39	18°19	5°24	2°16	28°40	0°46	26°59	1°53	2°36	27°24	28°24	T 14
W15	11 30 2	24°21'11	0 Υ 29	8° 5	0 8 51	18°31	5°38	2°23	28°41	0°47	27° 1	1°D53	2°33	27°30	28°28	W15
T 16	11 33 58	25°20'53	15°18	9°53	2° 3	18°43	5°52	2°31	28°42	0°48	27° 2	1°53	2°30	27°37	28°32	T 16
F 17	11 37 55	26°20'33	29°48	11°38	3°14	18°56	6° 6	2°38	28°43	0°48	27° 4	1°53	2°27	27°44	28°35	F 17
S 18	11 41 51	27°20'11	13 8 53	13°19	4°25	19° 9	6°20	2°46	28°44	0°49	27° 5	1°54	2°24	27°50	28°39	S 18
S 19	11 45 48	28°19'47	27°31	14°57	5°37	19°23	6°34	2°53	28°45	0°49	27° 7	1°54	2°20	27°57	28°43	S 19
M20	11 49 44	29°19'21	10 Ⅱ 43	16°30	6°48	19°37	6°48	3° 1	28°46	0°50	27° 8	1°54	2°17	28° 4	28°46	M20
T 21	11 53 41	0 Υ 18'52	23°31	17°58	7°59	19°52	7° 2	3° 8	28°46	0°50	27°10	1°54	2°14	28°10	28°50	T 21
W22	11 57 37	1°18'21	5959	19°22	9°10	20° 8	7°16	3°15	28°47	0°51	27°11	1°R54	2°11	28°17	28°54	W22
T 23	12 1 34	2°17'48	18°10	20°39	10°21	20°23	7°29	3°23	28°48	0°51	27°13	1°D54	2° 8	28°24	28°57	T 23
F 24	12 5 31	3°17'12	0Ω10	21°51	11°32	20°40	7°43	3°30	28°48	0°51	27°15	1°54	2° 4	28°30	29° 1	F 24
S 25	12 9 27	4°16'35	12° 2	22°56	12°42	20°56	7°57	3°38	28°49	0°52	27°16	1°55	2° 1	28°37	29° 4	S 25
S 26	12 13 24	5°15'54	23°51	23°55	13°53	21°13	8°11	3°45	28°49	0°52	27°18	1°55	1°58	28°44	29° 8	S 26
M27	12 17 20	6°15'12	5 m /40	24°47	15° 3	21°31	8°24	3°53	28°49	0°52	27°19	1°55	1°55	28°50	29°12	M27
T 28	12 21 17	7°14'27	17°32	25°33	16°14	21°49	8°38	4° 0	28°50	0°52	27°21	1°56	1°52	28°57	29°15	T 28
W29	12 25 13	8°13'40	29°31	26°11	17°24	22° 7	8°51	4° 8	28°50	0°52	27°22	1°R56	1°49	29° 4	29°19	W29
T 30	12 29 10	9°12'51	11 ≙ 37	26°42	18°34	22°26	9° 5	4°15	28°50	0°53	27°24	1°56	1°45	29°10	29°23	T 30
F 31	12 33 6	10 Y 12'00	23 ≏ 53	27 Y 5	19 8 44	229545	9) 18	4Υ 23	28 × 750	0 궁 53	27 米 25	1 Y 55	1 Υ 42	29 Ω 17	29 米 26	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 F 3	7 s41 7 18 6 56	4n37 1n 1 1s 8 0s 4 6 54 1 10	8 s 59	5n11 0s23 25n5 5 42 0 19 25 5 6 13 0 16 25 5	3 30	11 23 0 52		23 37 0 10	22 s18 1 n10 22 18 1 10 22 18 1 10			1n19 15n49 1 17 15 46 1 16 15 44	2n 5 3n18 2 6 3 18 2 7 3 17
S 4		12 28 2 14	6 29 1 25	6 44 0 13 25 49			1 33 2 9		22 18 1 10		0 46	1 15 15 41	2 9 3 17
S 5 M 6 T 7 W 8	5 46 5 23	17 39 3 13 22 11 4 3 25 46 4 42	4 44 1 10 3 50 1 2	7 45 0 7 25 4 8 15 0 4 25 4	3 23 3 21	11 8 0 52 11 3 0 52 10 58 0 53	1 24 2 8	23 37 0 10 23 37 0 10	22 18 1 10 22 18 1 10 22 18 1 10	15 42 15 45 15 41 15 45	0 47 0 47	1 14 15 38 1 12 15 35 1 11 15 32	2 10 3 17 2 11 3 17 2 13 3 17
T 9 F 10 S 11	4 36 4 13	28 3 5 8 28 44 5 17 27 35 5 7 24 36 4 38	2 0 0 44	9 15 On 3 25 3: 9 44 O 6 25 3:	3 18 3 16	10 48 0 53 10 42 0 53	1 18 2 8 1 15 2 8	23 37 0 10 23 37 0 10	22 18 1 10 22 18 1 10 22 18 1 10 22 18 1 10	15 40 15 45		1 10 15 29 1 9 15 26 1 7 15 23 1 6 15 20	2 14 3 17 2 15 3 17 2 17 3 17 2 18 3 17
S 12 M13 T 14 W15 T 16 F 17	3 2 2 38 2 15 1 51	19 56 3 51 13 57 2 46 7 8 1 30 0n 4 0 8 7 10 1n14 13 44 2 29	0n47 0 13 1 43 0 1 2 38 0n10 3 33 0 22 4 27 0 35 5 20 0 47	11 40 0 20 25 20 12 9 0 23 25 10 12 37 0 27 25 1	3 11 3 9 3 7 3 5	10 32 0 53 10 27 0 53 10 22 0 53 10 17 0 53 10 12 0 53 10 7 0 54	1 10 2 8 1 7 2 8 1 4 2 8 1 1 2 8 0 58 2 8 0 55 2 8	23 38 0 10 23 38 0 10 23 38 0 10 23 38 0 10		15 36 15 45 15 35 15 45	0 45 0 45 0 45 0 45	1 5 15 17 1 3 15 14 1 2 15 11 1 1 15 8 1 0 15 5 0 58 15 2	2 19 3 17 2 21 3 16 2 22 3 16 2 23 3 16 2 25 3 16 2 26 3 16
S 18 S 19 M20	0 40	19 24 3 33 23 53 4 22 26 58 4 56	6 11 1 0 7 1 1 13 7 48 1 25	14 0 0 37 25	3 0	10 2 0 54 9 57 0 54 9 52 0 54	0 52 2 8 0 49 2 8 0 46 2 8	23 38 0 10	22 18 1 10	15 34 15 45 15 34 15 45 15 33 15 45	0 45	0 57 14 59 0 56 14 56 0 55 14 53	2 28 3 16 2 29 3 16 2 30 3 16
T 21 W22 T 23 F 24	0 31 0 55 1 18		9 16 1 50 9 57 2 1 10 34 2 12	15 19 0 48 24 50 15 45 0 52 24 40 16 11 0 55 24 40	2 55 2 53 2 52	9 47 0 54 9 41 0 54 9 36 0 54 9 31 0 54		23 38 0 10 23 38 0 10 23 38 0 10	22 18 1 10 22 18 1 10 22 18 1 10	15 31 15 45 15 31 15 45	0 46 0 46 0 46	0 53 14 50 0 52 14 47 0 51 14 44 0 50 14 41	2 32 3 16 2 33 3 16 2 35 3 16 2 36 3 16
S 25 S 26 M27	1 42 2 6 2 29	16 40 3 16	11 8 2 23 11 39 2 33 12 7 2 42	17 1 1 2 24 34	2 49	9 26 0 54 9 21 0 55 9 16 0 55		23 38 0 10	22 17 1 10 22 17 1 10 22 17 1 10	15 30 15 45	0 46	0 48 14 38 0 47 14 35 0 46 14 32	2 37 3 16 2 39 3 16 2 40 3 16
T 28 W29 T 30 F 31	2 53 3 16 3 39	6 9 1 19 0 24 0 13 5 s 25 0 s 5 3	12 32 2 50 12 52 2 57	17 49 1 9 24 2 18 12 1 13 24 2 18 35 1 16 24 1	2 45 2 44	9 11 0 55 9 6 0 55 9 2 0 55 8s57 0s55	0 22 2 8 0 19 2 8 0 16 2 9	23 38 0 10 23 38 0 10 23 38 0 10	22 17 1 10 22 17 1 10 22 17 1 10	15 29 15 45	0 46 0 46 0 46	0 45 14 29 0 43 14 26 0 42 14 22 0n41 14n19	2 42 3 16 2 43 3 16 2 44 3 15 2n46 3n15

 $\label{eq:Julian Day Number = 2385860.5, Delta T = 16.56 sec} \\ Ecliptic obliquity = 23°27'55, Nutation = 0°00'00, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 22°13'45, Lahiri = 21°20'46 \\$

APRIL 1820 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ)∤(¥	Р	r	v	Ç	Š,	Day
S 1	12 37 3	11 Y 11'07	6 M 20	27 Υ 22	20 8 54	2395 4	9 ∺ 32	4 Υ30	28 × 751	0 ට 53	27) 26	1°R54	1 Y 39	29 Ω 24	29 ∺ 30	S 1
S 2	12 41 0	12°10'12	19° 0	27°31	22° 3	23°24	9°45	4°38	28°51	0°R53	27°28	1 Y 53	1°36	29°30	29°33	S 2
M 3	12 44 56	13° 9'16	1 √ 54	27°R34	23°13	23°44	9°58	4°45	28°R51	0°53	27°29	1°52	1°33	29°37	29°37	M 3
T 4	12 48 53	14° 8'17	15° 2	27°29	24°22	24° 4	10°11	4°53	28°51	0°53	27°31	1°50	1°30	29°44	29°40	T 4
W 5	12 52 49	15° 7'17	28°26	27°19	25°32	24°25	10°25	5° 0	28°51	0°53	27°32	1°49	1°26	29°50	29°44	W 5
T 6	12 56 46	16° 6'15	12중 7	27° 1	26°41	24°46	10°38	5° 7	28°50	0°52	27°34	1°D49	1°23	29°57	29°48	T 6
F 7	13 0 42	17° 5'11	26° 4	26°39	27°50	25° 8	10°51	5°15	28°50	0°52	27°35	1°49	1°20	0 Mp 4	29°51	F 7
S 8	13 439	18° 4'06	10≈17	26°11	28°59	25°29	11° 4	5°22	28°50	0°52	27°37	1°49	1°17	0°10	29°55	S 8
S 9	13 8 35	19° 2'59	24°44	25°38	OII 7	25°51	11°17	5°30	28°50	0°52	27°38	1°51	1°14	0°17	29°58	S 9
M10	13 12 32	20° 1'50	9 ∺ 22	25° 2	1°16	26°14	11°30	5°37	28°49	0°52	27°40	1°52	1°10	0°24	oΥ 2	M10
T 11	13 16 29	21° 0'39	24° 5	24°23	2°24	26°36	11°42	5°44	28°49	0°51	27°41	1°53	1° 7	0°30	0° 5	T 11
W12	13 20 25	21°59'26	8 Ƴ 48	23°41	3°33	26°59	11°55	5°51	28°48	0°51	27°42	1°R53	1° 4	0°37	0° 9	W12
T 13	13 24 22	22°58'12	23°24	22°58	4°41	27°23	12° 8	5°59	28°48	0°51	27°44	1°52	1° 1	0°44	0°12	T 13
F 14	13 28 18	23°56'55	7 8 47	22°14	5°49	27°46	12°20	6° 6	28°47	0°50	27°45	1°49	0°58	0°50	0°15	F 14
S 15	13 32 15	24°55'36	21°50	21°30	6°57	28°10	12°33	6°13	28°47	0°50	27°47	1°46	0°55	0°57	0°19	S 15
S 16	13 36 11	25°54'16	5 Ⅱ 30	20°47	8° 5	28°34	12°45	6°21	28°46	0°50	27°48	1°43	0°51	1° 4	0°22	S 16
M17	13 40 8	26°52'53	18°47	20° 6	9°12	28°58	12°58	6°28	28°46	0°49	27°49	1°39	0°48	1°10	0°25	M17
T 18	13 44 4	27°51'28	19540	19°28	10°19	29°23	13°10	6°35	28°45	0°49	27°51	1°36	0°45	1°17	0°29	T 18
W19	13 48 1	28°50'01	14°11	18°52	11°27	29°48	13°22	6°42	28°44	0°48	27°52	1°34	0°42	1°24	0°32	W19
T 20	13 51 58	29°48'32	26°25	18°20	12°34	0 Ω 13	13°34	6°49	28°43	0°48	27°53	1°D33	0°39	1°30	0°35	T 20
F 21	13 55 54	0847'01	8 Ω 25	17°51	13°40	0°38	13°46	6°56	28°42	0°47	27°55	1°33	0°36	1°37	0°39	F 21
S 22	13 59 51	1°45'27	20°18	17°27	14°47	1° 4	13°58	7° 3	28°41	0°46	27°56	1°35	0°32	1°44	0°42	S 22
S 23	14 3 47	2°43'51	2MD 6	17° 8	15°53	1°30	14°10	7°10	28°40	0°46	27°57	1°36	0°29	1°50	0°45	S 23
M24	14 7 44	3°42'13	13°57	16°53	17° 0	1°56	14°22	7°17	28°39	0°45	27°59	1°38	0°26	1°57	0°48	M24
T 25	14 11 40	4°40'33	25°52	16°43	18° 6	2°22	14°34	7°24	28°38	0°44	28° 0	1°R39	0°23	2° 4	0°51	T 25
W26	14 15 37	5°38'51	7 ≙ 57	16°38	19°11	2°48	14°45	7°31	28°37	0°44	28° 1	1°39	0°20	2°10	0°55	W26
T 27	14 19 33	6°37'07	20°15	16°D38	20°17	3°15	14°57	7°38	28°36	0°43	28° 2	1°37	0°16	2°17	0°58	T 27
F 28	14 23 30	7°35'22	2M46	16°43	21°22	3°42	15° 8	7°45	28°35	0°42	28° 4	1°34	0°13	2°24	1° 1	F 28
S 29	14 27 27	8°33'34	15°33	16°52	22°27	4° 9	15°20	7°52	28°34	0°41	28° 5	1°29	0°10	2°30	1° 4	S 29
S 30	14 31 23	9 8 31'45	28 M .34	17 ℃ 7	23Ⅲ32	4 Ω 36	15 ¥ 31	7 Y 58	28 × 32	0 ප 41	28 ∺ 6	1 Y 23	0 Υ 7	2 m 37	1 ℃ 7	S 30

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	4n26	16 s28	2 s 5 9	13n32	3n12	19n20	1n23	24n 6	2n39	8 s 5 2	0 s55	0s11	2s 9	23 s38	0s10	22 s17	1n10	15 s26	15 s46	0n46	0n39	14n16	2n47	3n15
S 2	4 49	21 13	3 52	13 38	3 15	19 42	1 27	24 1	2 38	8 47	0 56	0 8	2 9	23 38	0 10	22 17	1 11	15 26	15 46	0 45	0 38	14 13	2 49	3 15
M 3	5 12	25 3	4 34	13 39	3 15	20 3	1 30	23 56	2 36	8 42	0 56	0 5	2 9	23 38	0 10	22 17	1 11	15 26	15 46	0 44	0 37	14 10	2 50	3 15
T 4	5 35	27 39	5 3	13 37	3 15	20 24	1 34	23 51	2 35	8 37	0 56	0 2	2 9	23 38	0 10	22 17	1 11	15 25	15 46	0 44	0 36	14 7	2 51	3 15
W 5	5 58	28 43	5 16	13 31	3 13	20 44	1 37	23 46	2 33	8 32	0 56	0n 1	2 9	23 38	0 10	22 17	1 11	15 25	15 46	0 43	0 34	14 4	2 53	3 15
T 6	6 20	28 5	5 11	13 22	3 9	21 4	1 40	23 41	2 32	8 27	0 56	0 4	2 9	23 38	0 11	22 17	1 11	15 24	15 46	0 43	0 33	14 1	2 54	3 15
F 7	6 43	25 41	4 49	13 9	3 4	21 23	1 44	23 35	2 30	8 22	0 56	0 7	2 9	23 38	0 11	22 17	1 11	15 24	15 46	0 43	0 32	13 58	2 56	3 15
S 8	7 6	21 40	4 8	12 52	2 57	21 41	1 47	23 30	2 29	8 18	0 56	0 10	2 9	23 38	0 11	22 17	1 11	15 23	15 46	0 44	0 31	13 55	2 57	3 15
S 9	7 28	16 18	3 11	12 32	2 49	22 0	1 50	23 24	2 27	8 13	0 57	0 13	2 9	23 38	0 11	22 17	1 11	15 23	15 47	0 44	0 29	13 52	2 58	3 15
M10	7 50	9 56	2 1	12 10	2 39	22 17	1 53	23 19	2 26	8 8	0 57	0 15	2 9	23 38	0 11	22 17	1 11	15 22	15 47	0 45	0 28	13 49	3 0	3 15
T 11	8 12	3 0	0 43	11 45	2 28	22 34	1 57	23 13	2 24	8 3	0 57	0 18	2 9	23 38	0 11	22 17	1 11	15 22	15 47	0 45	0 27	13 46	3 1	3 15
W12	8 35	4n 5	0n38	11 18	2 15	22 51	2 0	23 7	2 23	7 59	0 57	0 21	2 9	23 38	0 11	22 17	1 11	15 21	15 47	0 45	0 26	13 43	3 2	3 15
T 13	8 56	10 54	1 56	10 49	2 2	23 7	2 3	23 1	2 22	7 54	0 57	0 24	2 9	23 38	0 11	22 17	1 11	15 21	15 47	0 44	0 24	13 39	3 4	3 15
F 14	9 18	17 2	3 5	10 19	1 47	23 22	2 6	22 55	2 20	7 49	0 57	0 27	2 9	23 38	0 11	22 17	1 11	15 21	15 47	0 44	0 23	13 36	3 5	3 15
S 15	9 40	22 8	4 1	9 49	1 32	23 37	2 9	22 49	2 19	7 45	0 57	0 29	2 10	23 38	0 11	22 17	1 11	15 20	15 47	0 42	0 22	13 33	3 7	3 15
S 16	10 1	25 52	4 42	9 18	1 16	23 51	2 12	22 43	2 18	7 40	0 58	0 32	2 10	23 38	0 11	22 17	1 11	15 20	15 48	0 41	0 20	13 30	3 8	3 15
M17	10 22	28 5	5 6	8 47	0 59	24 4	2 15	22 36	2 16	7 35	0 58	0 35	2 10	23 38	0 11	22 17	1 11	15 19	15 48	0 40	0 19	13 27	3 9	3 15
T 18	10 43	28 41	5 14	8 17	0 42	24 17	2 17	22 30	2 15	7 31	0 58	0 38	2 10	23 38	0 11	22 17	1 11	15 19	15 48	0 38	0 18	13 24	3 11	3 15
W19	11 4	27 47	5 7	7 48	0 26	24 29	2 20	22 23	2 14	7 26	0 58	0 40	2 10	23 38	0 11	22 17	1 11	15 19	15 48	0 37	0 17	13 21	3 12	3 15
T 20	11 25	25 33	4 45	7 20	0 9	24 41	2 23	22 17	2 12	7 22	0 58	0 43	2 10	23 38	0 11	22 17	1 11	15 18	15 48	0 37	0 15	13 18	3 13	3 15
F 21	11 46	22 13	4 12	6 54	0s 8	24 52	2 25	22 10	2 11	7 17	0 59	0 46	2 10	23 38	0 11	22 17	1 11	15 18	15 49	0 37	0 14	13 15	3 15	3 15
S 22	12 6	18 1	3 28	6 29	0 24	25 3	2 28	22 3	2 10	7 13	0 59	0 49	2 10	23 38	0 11	22 17	1 11	15 18	15 49	0 38	0 13	13 12	3 16	3 15
S 23	12 26	13 9	2 35	6 7	0 40	25 12	2 30	21 56	2 8	7 8	0 59	0 51	2 10	23 38	0 11	22 17	1 11	15 17	15 49	0 38	0 12	13 8	3 17	3 15
M24	12 46	7 48	1 35	5 47	0 55	25 22	2 33	21 49	2 7	7 4	0 59	0 54	2 10	23 38	0 11	22 17	1 11	15 17	15 49	0 39	0 10	13 5	3 19	3 15
T 25	13 6	2 8	0 32	5 30	1 10	25 30	2 35	21 42	2 6	7 0	0 59	0 57	2 11	23 38	0 11	22 17	1 11	15 17	15 49	0 39	0 9	13 2	3 20	3 15
W26	13 25	3 s41	0s34	5 15	1 24	25 38	2 37	21 35	2 5	6 55	0 59	0 59	2 11	23 38	0 11	22 17	1 11	15 16	15 50	0 39	0 8	12 59	3 21	3 16
T 27	13 44	9 28	1 40	5 3	1 37	25 45	2 39	21 27	2 3	6 51	1 0	1 2	2 11	23 38	0 11	22 17	1 11	15 16	15 50	0 39	0 7	12 56	3 22	3 16
F 28	14 3	14 58	2 41	4 54	1 49	25 52	2 41	21 20	2 2	6 47	1 0	1 4	2 11	23 38	0 11	22 17	1 11	15 16	15 50	0 38	0 5	12 53	3 24	3 16
S 29	14 22	19 57	3 36	4 47	2 1	25 58	2 43	21 12	2 1	6 43	1 0	1 7	2 11	23 38	0 11	22 17	1 11	15 16	15 50	0 36	0 4	12 50	3 25	3 16
S 30	14n41	24s 6	4s21	4n42	2 s 1 1	26n 3	2n45	21n 4	2n 0	6s38	1 s 0	1n10	2s11	23 s38	0s11	22 s17	1n11	15 s 15	15 s 5 1	0n33	0n 3	12n46	3n26	3n16

Julian Day Number = 2385891.5, Delta T = 16.55 sec Ecliptic obliquity = $23^\circ27'55$, Nutation = $-0^\circ00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^\circ13'49$, Lahiri = $21^\circ20'50$

MAY 1820 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(¥	В	₽.	v	Ç	ę,	Day
M 1	14 35 20	10829'54	11 ×7 50	17 Y 25	24 II 37	5 Ω 3	15) (42	8 Υ 5	28°R31	0°R40	28 米 7	1°R17	0 Υ 4	2 Mp 44	1 Υ 10	M 1
T 2	14 39 16	11°28'02	25°20	17°49	25°41	5°31	15°53	8°12	28 ∡ 30	0 궁 39	28° 8	1 Y 11	0° 1	2°50	1°13	T 2
W 3	14 43 13	12°26'08	9 ਰ 1	18°16	26°45	5°59	16° 4	8°19	28°28	0°38	28° 9	1° 6	29 米 57	2°57	1°16	W 3
T 4	14 47 9	13°24'13	22°51	18°48	27°49	6°27	16°15	8°25	28°27	0°37	28°11	1° 2	29°54	3° 4	1°19	T 4
F 5	14 51 6	14°22'16	6≈51	19°24	28°53	6°55	16°26	8°32	28°25	0°36	28°12	1° 0	29°51	3°10	1°22	F 5
S 6	14 55 2	15°20'18	20°57	20° 4	29°56	7°23	16°37	8°38	28°24	0°35	28°13	1°D 0	29°48	3°17	1°24	S 6
S 7	14 58 59	16°18'19	5 米 9	20°47	0959	7°52	16°47	8°45	28°22	0°34	28°14	1° 1	29°45	3°23	1°27	S 7
M 8	15 2 56	17°16'18	19°26	21°34	2° 2	8°20	16°58	8°51	28°21	0°33	28°15	1° 2	29°42	3°30	1°30	M 8
T 9	15 6 52	18°14'16	3 Ƴ 44	22°24	3° 5	8°49	17° 8	8°58	28°19	0°32	28°16	1°R 3	29°38	3°37	1°33	T 9
W10	15 10 49	19°12'12	18° 1	23°18	4° 7	9°18	17°18	9° 4	28°17	0°31	28°17	1° 1	29°35	3°43	1°36	W10
T 11	15 14 45	20°10'07	2813	24°15	5° 9	9°47	17°28	9°10	28°16	0°30	28°18	0°58	29°32	3°50	1°38	T 11
F 12	15 18 42	21° 8'01	16°15	25°15	6°10	10°17	17°39	9°17	28°14	0°28	28°19	0°52	29°29	3°57	1°41	F 12
S 13	15 22 38	22° 5'54	0 I I 3	26°18	7°12	10°46	17°48	9°23	28°12	0°27	28°20	0°45	29°26	4° 3	1°43	S 13
S 14	15 26 35	23° 3'45	13°34	27°24	8°12	11°16	17°58	9°29	28°10	0°26	28°21	0°36	29°22	4°10	1°46	S 14
M15	15 30 31	24° 1'34	26°45	28°33	9°13	11°46	18° 8	9°35	28° 8	0°25	28°22	0°27	29°19	4°17	1°49	M15
T 16	15 34 28	24°59'22	9936	29°45	10°13	12°15	18°18	9°41	28° 6	0°24	28°23	0°19	29°16	4°23	1°51	T 16
W17	15 38 25	25°57'08	22° 7	0 8 59	11°13	12°46	18°27	9°47	28° 5	0°22	28°24	0°12	29°13	4°30	1°54	W17
T 18	15 42 21	26°54'53	4 Ω 21	2°16	12°12	13°16	18°36	9°53	28° 3	0°21	28°25	0° 7	29°10	4°37	1°56	T 18
F 19	15 46 18	27°52'36	16°22	3°35	13°12	13°46	18°46	9°59	28° 1	0°20	28°26	0° 5	29° 7	4°43	1°58	F 19
S 20	15 50 14	28°50'17	28°15	4°57	14°10	14°17	18°55	10° 5	27°59	0°19	28°27	0°D 4	29° 3	4°50	2° 1	S 20
S 21	15 54 11	29°47'57	10 Mp 4	6°21	15° 8	14°47	19° 4	10°10	27°57	0°17	28°27	0° 4	29° 0	4°57	2° 3	S 21
M22	15 58 7	0 Ⅱ 45'35	21°55	7°48	16° 6	15°18	19°12	10°16	27°55	0°16	28°28	0° 5	28°57	5° 3	2° 5	M22
T 23	16 2 4	1°43'12	3 ₾ 53	9°17	17° 3	15°49	19°21	10°22	27°52	0°15	28°29	0°R 5	28°54	5°10	2° 7	T 23
W24	16 6 0	2°40'47	16° 3	10°49	18° 0	16°20	19°30	10°27	27°50	0°13	28°30	0° 4	28°51	5°17	2°10	W24
T 25	16 9 57	3°38'21	28°29	12°23	18°57	16°51	19°38	10°33	27°48	0°12	28°31	0° 0	28°47	5°23	2°12	T 25
F 26	16 13 54	4°35'53	11 M _13	14° 0	19°52	17°22	19°47	10°38	27°46	0°10	28°31	29 米 55	28°44	5°30	2°14	F 26
S 27	16 17 50	5°33'25	24°18	15°39	20°48	17°54	19°55	10°43	27°44	0° 9	28°32	29°46	28°41	5°37	2°16	S 27
S 28	16 21 47	6°30'55	7 √ 41	17°20	21°43	18°25	20° 3	10°49	27°42	0° 8	28°33	29°36	28°38	5°43	2°18	S 28
M29	16 25 43	7°28'24	21°22	19° 4	22°37	18°57	20°11	10°54	27°39	0° 6	28°34	29°26	28°35	5°50	2°20	M29
T 30	16 29 40	8°25'52	5 조 18	20°50	23°30	19°29	20°18	10°59	27°37	<u>0°</u> 5	28°34	29°15	28°32	5°57	2°22	T 30
W31	16 33 36	9∏23′20	19 る 23	22 8 38	249523	20Ω 0	20) (26	11 ° 4	27 × 35	0중 3	28 米 35	29 米 6	28 米 28	6Mp 3	2 Y 23	W31

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	decl	decl lat	decl la	at decl la	t decl	lat	decl	lat	decl	lat	decl	lat	decl la	t	decl lat	decl	decl	decl	decl l	at
M 1 T 2		27 s 3 4 s 5 28 31 5			2n47 20n57 2 49 20 49	1n59 1 57	6s34 6 30	1 s 0 1 1	1n12 1 15	-	23 s38 23 38				15 s15 15 s51 15 15 15 51	0n31 0 28	0n 1 0 0	12n43 12 40	3n27 3 29	3n16 3 16
W 3 T 4	15 35 15 53	26 15 4 4	8 4 49	2 45 26 18 2	2 50 20 41 2 52 20 32	1 56 1 55	6 26 6 22	1 1 1 1	1 17 1 20	2 12	23 38 23 38	0 11	22 16	1 11	15 15 15 51 15 14 15 52	0 26 0 25	0s 1 0 2	12 34	3 30 3 31	3 16 3 16
F 5 S 6		22 38 4 1 17 41 3 2			2 53 20 24 2 54 20 16	1 54 1 53	6 18 6 14	1 1	1 22 1 24		23 38 23 38		-		15 14 15 52 15 14 15 52	0 24 0 24	0 4 0 5		3 32 3 33	3 16 3 16
S 7 M 8 T 9 W10	16 44 17 0 17 17 17 33	11 44 2 1 5 9 1 1n42 0n1 8 28 1 3	2 5 32 5 5 48	3 6 26 23 2 3 9 26 23 2	2 55 20 7 2 56 19 59 2 57 19 50 2 58 19 41	1 52 1 51 1 49 1 48	6 10 6 6 6 2 5 59	1 2 1 2 1 2 1 2	1 27 1 29 1 32 1 34	2 12 2 12	23 38 23 38 23 38 23 38	0 11 0 11	22 16 22 16	1 11 1 11	15 14 15 52 15 14 15 53 15 13 15 53 15 13 15 53	0 24 0 25 0 25 0 24	0 6 0 7 0 9 0 10	12 21 12 18	3 35 3 36 3 37 3 38	3 16 3 16 3 16 3 16
T 11 F 12 S 13	18 4 18 19	20 12 3 3 24 29 4 2	9 6 46 4 7 8	3 14 26 18 2 3 15 26 16 3		1 47 1 46 1 45	5 55 5 51 5 47	1 2 1 3 1 3	1 36 1 39 1 41	2 13 2 13	23 38 23 38 23 38	0 11 0 11	22 16 22 16	1 12 1 12	15 13 15 54	0 23 0 21 0 18	0 11 0 12 0 14	12 5	3 39 3 40 3 41	3 16 3 16 3 16
S 14 M15 T 16 W17 T 18 F 19 S 20	19 2 19 16 19 29 19 43	28 31 5 28 8 5 26 19 4 4 23 18 4 1 19 19 3 3	5 7 58 2 8 25 4 8 53 4 9 22 2 9 52		3 0 18 56 3 0 18 46 3 0 18 37	1 44 1 43 1 42 1 41 1 40 1 39 1 38	5 44 5 40 5 37 5 33 5 30 5 26 5 23	1 3 1 3 1 4 1 4 1 4 1 4	1 43 1 45 1 48 1 50 1 52 1 54 1 56	2 13 2 14 2 14 2 14 2 14	23 38 23 38 23 38 23 38 23 38 23 38 23 38	0 11 0 11 0 11 0 11 0 11	22 16 22 16 22 16 22 16 22 16 22 16	1 12 1 12 1 12 1 12 1 12	15 13 15 55	0 14 0 11 0 8 0 5 0 3 0 2 0 2	0 19 0 20 0 21	11 59 11 56 11 53	3 42 3 44 3 45 3 46 3 47 3 48 3 49	3 16 3 17 3 17 3 17 3 17 3 17 3 17 3 17
S 21 M22 T 23 W24 T 25 F 26 S 27	20 8 20 20 20 32 20 43 20 54 21 5 21 15	3 53 0 4 1s51 0s2 7 37 1 2 13 13 2 2 18 23 3 2	4 11 29 1 0 12 3 1 4 12 38 1 5 13 13 1 1 13 49 1	2 48 25 25 2 2 42 25 17 2 2 35 25 8 2 2 28 24 59 2 2 21 24 49 2	2 58 17 57 2 57 17 47 2 56 17 37 2 55 17 27 2 53 17 16 2 52 17 6 2 50 16 55	1 37 1 36 1 35 1 34 1 33 1 32 1 31	5 20 5 16 5 13 5 10 5 7 5 4 5 1	1 5 1 5 1 5 1 5 1 6 1 6	1 58 2 0 2 2 2 4 2 6 2 8 2 10	2 15 2 15 2 15 2 15 2 15 2 15	23 38 23 38 23 38 23 38 23 38 23 38 23 38 23 38	0 11 0 11 0 11 0 11 0 11	22 16 22 16 22 16 22 16 22 16 22 16	1 12 1 12 1 12 1 12 1 12 1 12	15 12 15 57 15 12 15 57 15 12 15 57 15 12 15 58 15 12 15 58 15 12 15 58 15 12 15 59	0 2 0 2 0 2 0 2 0 0 0 s 2 0 5	0 25 0 26 0 28 0 29 0 30	11 40 11 37 11 33 11 30 11 27 11 24 11 21	3 51 3 52 3 53 3 53	3 17 3 17 3 17 3 17 3 17 3 17 3 18
M29 T 30	21 25 21 35 21 44 21n53	28 10 4 5 28 22 5	9 15 39 1 16 16	1 55 24 18 2 1 46 24 6 2	2 48 16 45 2 46 16 34 2 44 16 23 2n41 16n12	1 30 1 29 1 28 1n27	4 58 4 55 4 52 4 s49	1 6 1 7 1 7 1s 7	2 12 2 14 2 16 2n17	2 16 2 16	23 38 23 38 23 38 23 s38	0 11 0 11	22 16 22 16	1 12 1 12	15 12 15 59 15 12 15 59 15 12 16 0 15 12 16 0	0 14	0 34 0 35	11 17 11 14 11 11 11n 8	3 57 3 58	3 18 3 18 3 18 3n18

Julian Day Number = 2385921.5, Delta T = 16.53 sec Ecliptic obliquity = $23^{\circ}27'55$, Nutation = $-0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}13'54$, Lahiri = $21^{\circ}20'54$

JUNE 1820 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)Å(¥	Р	ß	Ω	Ç	ę,	Day
T 1	16 37 33	10П20'46	3≈34	24829	25916	20€32	20) (33	11 Υ 9	27°R33	0°R 2	28) 36	29°R 0	28 米 25	6 m 10	2 Υ 25	T 1
F 2	16 41 29	11°18'12	17°46	26°22	26° 8	21° 5	20°41	11°14	27 × 30	0 중 0	28°36	28 米 55	28°22	6°17	2°27	F 2
S 3	16 45 26	12°15'37	1) 58	28°17	26°59	21°37	20°48	11°19	27°28	29 х 59	28°37	28°53	28°19	6°23	2°29	S 3
S 4	16 49 23	13°13'01	16° 6	0 Ⅱ 15	27°49	22° 9	20°55	11°24	27°26	29°57	28°37	28°D53	28°16	6°30	2°30	S 4
M 5	16 53 19	14°10'25	0Υ11	2°14	28°39	22°41	21° 2	11°29	27°23	29°56	28°38	28°R53	28°13	6°37	2°32	M 5
T 6	16 57 16	15° 7'48	14°11	4°16	29°28	23°14	21° 9	11°33	27°21	29°54	28°38	28°53	28° 9	6°43	2°34	T 6
W 7	17 1 12	16° 5'11	28° 4	6°20	0Ω16	23°47	21°15	11°38	27°19	29°53	28°39	28°50	28° 6	6°50	2°35	W 7
T 8	17 5 9	17° 2'33	11851	8°25	1° 4	24°19	21°22	11°42	27°16	29°51	28°39	28°45	28° 3	6°57	2°37	T 8
F 9	17 9 5	17°59'55	25°28	10°32	1°51	24°52	21°28	11°47	27°14	29°49	28°40	28°37	28° 0	7° 3	2°38	F 9
S 10	17 13 2	18°57'16	8 Ⅱ 55	12°40	2°37	25°25	21°34	11°51	27°11	29°48	28°40	28°26	27°57	7°10	2°40	S 10
S 11	17 16 59	19°54'36	22° 7	14°50	3°22	25°58	21°40	11°55	27° 9	29°46	28°41	28°14	27°53	7°17	2°41	S 11
M12	17 20 55	20°51'56	599 4	17° 1	4° 6	26°31	21°46	12° 0	27° 7	29°45	28°41	28° 1	27°50	7°23	2°42	M12
T 13	17 24 52	21°49'15	17°45	19°12	4°49	27° 4	21°51	12° 4	27° 4	29°43	28°41	27°49	27°47	7°30	2°43	T 13
W14	17 28 48	22°46'34	oΩ 9	21°24	5°31	27°38	21°57	12° 8	27° 2	29°41	28°42	27°39	27°44	7°36	2°45	W14
T 15	17 32 45	23°43'51	12°20	23°36	6°12	28°11	22° 2	12°12	26°59	29°40	28°42	27°31	27°41	7°43	2°46	T 15
F 16	17 36 41	24°41'08	24°18	25°47	6°52	28°45	22° 7	12°16	26°57	29°38	28°42	27°26	27°38	7°50	2°47	F 16
S 17	17 40 38	25°38'24	6Mp 9	27°59	7°31	29°18	22°12	12°19	26°54	29°37	28°43	27°24	27°34	7°56	2°48	S 17
S 18	17 44 34	26°35'39	17°58	099 9	8° 9	29°52	22°17	12°23	26°52	29°35	28°43	27°23	27°31	8° 3	2°49	S 18
M19	17 48 31	27°32'53	29°48	2°19	8°46	0 m) 26	22°22	12°27	26°49	29°33	28°43	27°22	27°28	8°10	2°50	M19
T 20	17 52 28	28°30'07	11 ≏ 47	4°28	9°21	1° 0	22°26	12°30	26°47	29°32	28°43	27°22	27°25	8°16	2°51	T 20
W21	17 56 24	29°27'20	23°59	6°35	9°55	1°34	22°30	12°34	26°45	29°30	28°44	27°21	27°22	8°23	2°51	W21
T 22	18 0 21	0924'33	6M28	8°41	10°28	2° 8	22°34	12°37	26°42	29°29	28°44	27°17	27°19	8°30	2°52	T 22
F 23	18 4 17	1°21'45	19°20	10°46	11° 0	2°42	22°38	12°40	26°40	29°27	28°44	27°11	27°15	8°36	2°53	F 23
S 24	18 8 14	2°18'57	2 ₹ 35	12°48	11°30	3°16	22°42	12°43	26°37	29°25	28°44	27° 2	27°12	8°43	2°54	S 24
S 25	18 12 10	3°16'08	16°15	14°49	11°58	3°50	22°45	12°47	26°35	29°24	28°44	26°52	27° 9	8°50	2°54	S 25
M26	18 16 7	4°13'19	0 궁 17	16°48	12°25	4°25	22°49	12°50	26°32	29°22	28°44	26°40	27° 6	8°56	2°55	M26
T 27	18 20 3	5°10'30	14°37	18°45	12°50	4°59	22°52	12°52	26°30	29°20	28°44	26°29	27° 3	9° 3	2°55	T 27
W28	18 24 0	6° 7'40	29° 8	20°40	13°14	5°34	22°55	12°55	26°28	29°19	28°44	26°19	27° 0	9°10	2°56	W28
T 29	18 27 57	7° 4'51	13 ≈ 43	22°33	13°36	6° 9	22°58	12°58	26°25	29°17	28°R44	26°12	26°56	9°16	2°56	T 29
F 30	18 31 53	89 2'01	28 ≈ 17	249523	13 N 56	6 m 43	23 米 0	13 ° 1	26 × ⁷ 23	29 х 16	28) 44	26 ∺ 7	26 ∺ 53	9 ₯ 23	2 Y 56	F 30

Day	0	D		ğ	i	ç)	С	7	2	ļ.	ŧ	l)	ł(,	(Р	Ŋ	U	Ç	ķ	
	decl	decl la	ıt	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
T 1 F 2 S 3	22n 1 22 10 22 17	18 41	3 20	17n30 18 7 18 43	1 17	23n42 23 30 23 17	2n39 2 36 2 33	15 50	1n26 1 25 1 24	4 s 4 7 4 4 4 4 4 4 2	1 8	2n19 2 21 2 23	2 17	23 s38 23 38 23 38	0 11	22 s16 22 16 22 16	1n12 1 12 1 12		0 0 s24 1 0 26 1 0 26	0 s38 0 39 0 40		4n 0 4 0 4 1	3n18 3 18 3 18
S 4 M 5 T 6 W 7 T 8	22 25 22 32 22 38 22 44 22 50	0n11 6 50 13 6	0n 7 1 20	19 19 19 54 20 28 21 1 21 32	0 34	22 50 22 36 22 22	2 26 2 22	15 27 15 16 15 4 14 52 14 40	1 23 1 22 1 21 1 20 1 19	4 39 4 37 4 34 4 32 4 29	1 8 1 9 1 9 1 9	2 24 2 26 2 28 2 29 2 31	2 18 2 18 2 18	23 38 23 38 23 38 23 38 23 38	0 11 0 11 0 11	22 16 22 16 22 16 22 16 22 16	1 12 1 12 1 12 1 12 1 12	15 13 16 15 13 16	1 0 27 2 0 27 2 0 27 2 0 28 3 0 30	0 43 0 44 0 45	10 55 10 52 10 48 10 45 10 42	4 2 4 3 4 3 4 4 4 5	3 18 3 18 3 19 3 19 3 19
F 9 S 10	22 55	23 14	4 12		0 1	21 53 21 38	2 10		1 18 1 17	4 27 4 25	1 10 1 10	2 32 2 34	2 18	23 38 23 38	0 12	22 16 22 16	1 12	15 13 16	3 0 33 4 0 37	0 48	10 39 10 35	4 5 4 6	3 19 3 19
S 11 M12 T 13 W14 T 15 F 16 S 17	23 9 23 13 23 16 23 19 23 22	28 20 26 58 24 17 20 33 16 2	4 58 4 43 4 14 3 34 2 46	24 17	0 31 0 41 0 50 0 59 1 7	20 51 20 36 20 20	1 55 1 50 1 44 1 38	13 40 13 28 13 15 13 3	1 17 1 16 1 15 1 14 1 13 1 12 1 11		1 10 1 10 1 11 1 11 1 11 1 12 1 12	2 35 2 37 2 38 2 39 2 41 2 42 2 43	2 19 2 19 2 20 2 20 2 20 2 20	23 38 23 38 23 38 23 37 23 37 23 37 23 37	0 12 0 12 0 12 0 12 0 12	22 16 22 16 22 16 22 16 22 16 22 16 22 16 22 16	1 12 1 12 1 12 1 12 1 12	15 14 16 15 14 16 15 15 16 15 15 16	4 0 42 4 0 47 5 0 52 5 0 56 5 0 59 6 1 1 6 1 2	0 52 0 53 0 54 0 55 0 57	10 32 10 29 10 26 10 22 10 19 10 16 10 12	4 7 4 7 4 8 4 8 4 9 4 10 4 10	3 19 3 19 3 19 3 19 3 20 3 20 3 20
S 18 M19 T 20 W21 T 22 F 23 S 24	23 27	0s 7 5 49 11 25 16 42 21 24	0s13 1 16 2 16 3 11	24 50 24 56 24 58 24 58 24 55 24 49 24 41	1 22 1 29 1 35 1 40 1 44 1 48 1 51	19 15 18 59 18 42 18 26		12 25 12 12 11 59 11 46 11 33	1 10 1 9 1 9 1 8 1 7 1 6 1 5	4 9 4 7 4 6 4 4 4 3	1 12 1 13 1 13 1 13 1 14	2 44 2 46 2 47 2 48 2 49 2 50 2 51	2 21 2 21 2 21 2 22 2 22	23 37 23 37 23 37 23 37 23 37 23 37 23 37	0 12 0 12 0 12 0 12 0 12	22 16 22 16 22 16 22 16 22 16 22 16 22 16 22 16	1 12 1 12 1 12 1 12 1 12	15 15 16 15 16 16 15 16 16 15 16 16 15 17 16	6 1 3 7 1 3 7 1 3 8 1 3 8 1 5 8 1 7 9 1 11	0 59 1 0 1 2 1 3 1 4 1 6 1 7	10 6 10 3	4 11 4 11 4 12 4 12 4 12 4 13 4 13	3 20 3 20 3 20 3 20 3 20 3 21 3 21
S 25 M26 T 27 W28 T 29 F 30	23 24 23 22 23 19 23 17	28 28 27 24 24 29 19 59	5 0 4 46 4 13 3 24	24 30 24 18 24 3 23 46 23 27 23n 7	1 54 1 55 1 55 1 54	17 5 16 49	0 25 0 16 0 6 0s 3 0 13 0s24	10 53 10 40 10 26	1 4 1 3 1 3 1 2 1 1 1n 0	4 1 4 0 3 59 3 58 3 57 3 s56	1 14 1 15 1 15 1 15 1 15 1 s16	2 52 2 53 2 54 2 55 2 55 2 n56	2 23 2 23 2 23 2 24	23 37 23 37 23 37 23 37 23 37 23 s37	0 12 0 12 0 12 0 12	22 16 22 16 22 16 22 16 22 16 22 16 22 s16	1 12 1 12 1 12 1 12	15 17 16 15 18 16 1	1 28 1 1 31	1 8 1 9 1 11 1 12 1 13 1 s14	9 46 9 43 9 40 9 36 9 33 9n30	4 14 4 14 4 14 4 14 4 15 4n15	3 21 3 21 3 21 3 21 3 21 3 21 3 n21

Julian Day Number = 2385952.5, Delta T = 16.51 sec Ecliptic obliquity = 23°27'54, Nutation = -0°00'00, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 22°13'58, Lahiri = 21°20'58

JULY 1820 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ð	4	ħ)∤(并	В	₽.	v	Ç	ķ	Day
S 1	18 35 50	8959'12	12) 43	269512	14 Ω 14	7 m)18	23 米 3	13 ° 3	26°R20	29°R14	28°R44	26°R 5	26 米 50	9 m 30	2 Y 57	S 1
S 2	18 39 46	9°56'23	27° 0	27°59	14°31	7°53	23° 5	13° 6	26 × 18	29 × 12	28) 44	26°D 5	26°47	9°36	2°57	S 2
M 3	18 43 43	10°53'34	11 ° 4	29°44	14°45	8°28	23° 7	13° 8	26°16	29°11	28°44	26°R 5	26°44	9°43	2°57	M 3
T 4	18 47 39	11°50'46	24°56	1 Ω 26	14°58	9° 3	23° 9	13°10	26°13	29° 9	28°44	26) 4	26°40	9°50	2°57	T 4
W 5	18 51 36	12°47'58	8 8 35	3° 7	15° 8	9°38	23°11	13°12	26°11	29° 8	28°44	26° 2	26°37	9°56	2°57	W 5
T 6	18 55 32	13°45'11	22° 2	4°45	15°16	10°13	23°12	13°14	26° 9	29° 6	28°44	25°57	26°34	10° 3	2°R57	T 6
F 7	18 59 29	14°42'23	5 Ⅱ 18	6°22	15°23	10°49	23°13	13°16	26° 7	29° 5	28°44	25°50	26°31	10° 9	2°57	F 7
S 8	19 3 26	15°39'37	18°22	7°56	15°26	11°24	23°14	13°18	26° 4	29° 3	28°43	25°40	26°28	10°16	2°57	S 8
S 9	19 7 22	16°36'50	19913	9°28	15°R28	11°59	23°15	13°20	26° 2	29° 2	28°43	25°29	26°25	10°23	2°57	S 9
M10	19 11 19	17°34'04	13°52	10°58	15°28	12°35	23°16	13°22	26° 0	29° 0	28°43	25°17	26°21	10°29	2°57	M10
T 11	19 15 15	18°31'18	26°18	12°26	15°25	13°11	23°17	13°23	25°58	28°59	28°43	25° 6	26°18	10°36	2°57	T 11
W12	19 19 12	19°28'33	8 Ω 32	13°52	15°19	13°46	23°17	13°25	25°55	28°57	28°42	24°56	26°15	10°43	2°57	W12
T 13	19 23 8	20°25'47	20°35	15°16	15°12	14°22	23°R17	13°26	25°53	28°56	28°42	24°49	26°12	10°49	2°56	T 13
F 14	19 27 5	21°23'02	2 m 29	16°37	15° 2	14°58	23°17	13°27	25°51	28°54	28°42	24°44	26° 9	10°56	2°56	F 14
S 15	19 31 2	22°20'17	14°18	17°56	14°49	15°34	23°17	13°28	25°49	28°53	28°41	24°41	26° 6	11° 3	2°55	S 15
S 16	19 34 58	23°17'32	26° 5	19°13	14°34	16°10	23°16	13°29	25°47	28°51	28°41	24°D41	26° 2	11° 9	2°55	S 16
M17	19 38 55	24°14'47	7 ≏ 54	20°28	14°17	16°46	23°15	13°30	25°45	28°50	28°41	24°41	25°59	11°16	2°54	M17
T 18	19 42 51	25°12'03	19°52	21°40	13°58	17°22	23°15	13°31	25°43	28°48	28°40	24°R42	25°56	11°23	2°54	T 18
W19	19 46 48	26° 9'19	2M 2	22°49	13°36	17°58	23°14	13°32	25°41	28°47	28°40	24°42	25°53	11°29	2°53	W19
T 20	19 50 44	27° 6'35	14°31	23°56	13°12	18°34	23°12	13°33	25°39	28°46	28°39	24°40	25°50	11°36	2°52	T 20
F 21	19 54 41	28° 3'51	27°24	25° 1	12°46	19°11	23°11	13°33	25°37	28°44	28°39	24°37	25°46	11°43	2°52	F 21
S 22	19 58 37	29° 1'08	10 ∡ 742	26° 2	12°18	19°47	23° 9	13°34	25°35	28°43	28°38	24°31	25°43	11°49	2°51	S 22
S 23	20 2 34	29°58'26	24°28	27° 1	11°48	20°24	23° 7	13°34	25°33	28°41	28°38	24°24	25°40	11°56	2°50	S 23
M24	20 6 31	0 Ω 55'43	8 조 40	27°57	11°17	21° 0	23° 5	13°34	25°31	28°40	28°37	24°16	25°37	12° 3	2°49	M24
T 25	20 10 27	1°53'02	23°14	28°50	10°44	21°37	23° 3	13°34	25°29	28°39	28°37	24° 8	25°34	12° 9	2°48	T 25
W26	20 14 24	2°50'21	8 ≈ 4	29°39	10°10	22°13	23° 1	13°R34	25°28	28°38	28°36	24° 1	25°31	12°16	2°47	W26
T 27	20 18 20	3°47'41	23° 2	0 m 26	9°34	22°50	22°58	13°34	25°26	28°36	28°36	23°55	25°27	12°23	2°46	T 27
F 28	20 22 17	4°45'01	7) €57	1° 8	8°58	23°27	22°55	13°34	25°24	28°35	28°35	23°52	25°24	12°29	2°45	F 28
S 29	20 26 13	5°42'23	22°44	1°47	8°21	24° 4	22°52	13°34	25°23	28°34	28°34	23°D51	25°21	12°36	2°44	S 29
S 30	20 30 10	6°39'46	7 Υ 17	2°22	7°44	24°41	22°49	13°33	25°21	28°33	28°34	23°52	25°18	12°42	2°42	S 30
M31	20 34 6	7 Ω 37'10	21 Y 31	2 M 53	7 Ω 7	25 m 18	22) 46	13 Y 33	25 × 19	28 × 32	28 米 33	23 米 53	25 米 15	12 m 49	2 Υ 41	M31

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S 1	23n10	7 s52	1s10	22n45	1n51	16n 2	0s34	9n45	0n59	3 s 5 6	1 s16	2n57	2 s24	23 s37	0s12	22 s16	1n12	15 s 19	16s11	1 s33	1 s 1 6	9n27	4n15	3n21
S 2	23 6	1 7	0n 5	22 21	1 48	15 47	0 45	9 32	0 58	3 55	1 16	2 58	2 24	23 37	0 12	22 16	1 12	15 19	16 12	1 34	1 17	9 23	4 15	3 22
M 3	23 1			21 56	1 45		0 56	9 18	0 58	3 54	1 17	2 58		23 36		22 16		15 20		1 34	1 18	9 20	4 16	3 22
T 4	22 56			21 30	1 41	15 17	1 8	9 4	0 57	3 54	1 17	2 59		23 36		22 16			-	1 34	1 19	9 17	4 16	
W 5 T 6	-		3 25 4 11	21 3 20 34	1 36 1 31		1 19 1 31	8 50 8 36	0 56 0 55	3 54 3 53	1 17 1 18	2 59		23 36 23 36		22 16 22 16			16 13 16 13	1 35	1 21 1 22	9 13 9 10	4 16 4 16	3 22 3 22
F 7			4 43		1 26		1 44	8 22	0 54	3 53	1 18	3 0		23 36		22 16		15 21	16 14	1 40	1 22	9 10	4 16	3 22
S 8				19 35	1 20		1 56	8 7	0 54	3 53	1 18	3 1		23 36		22 16			-	-	1 24	9 3	4 16	-
S 9	22 26	28 28	5 1	19 5	1 13	14 9	2 9	7 53	0 53	3 53	1 19	3 1	2 26	23 36	0 12	22 16	1 11	15 22	16 14	1 48	1 26	9 0	4 16	3 22
M10	22 19			18 33	1 6		2 22	7 39	0 52	3 53	1 19	3 2	2 27			22 16		15 23		1 53	1 27	8 57	4 16	3 23
T 11			-	18 2	0 59		2 36	7 24	0 51	3 53	1 19	3 2	2 27			22 16				1 57	1 28	8 53	4 16	3 23
W12 T 13	_			17 30 16 57	0 51		2 49	7 10	0 50	3 53	1 19	3 2		23 36 23 36		22 16 22 16		15 24		2 1	1 30 1 31	8 50	4 16	3 23
F 14	21 46		-	16 24	0 42	13 23 13 13	3 3 3 17	6 55 6 41	0 50 0 49	3 53 3 54	1 20 1 20	3 3 3		23 36		22 16		-			1 31	8 47 8 44	4 16 4 16	3 23 3 23
S 15	21 37			15 52	0 24		3 31	6 26	0 48	3 54		3 3		23 36		22 16		15 25			1 33	8 40	4 16	3 23
S 16	21 27	1 27	0s 7	15 19	0 15	12 54	3 45	6 11	0 47	3 55	1 21	3 3	2 28	23 36	0 12	22 16	1 11	15 25	16 17	2 7	1 35	8 37	4 16	3 23
M17	21 17		-	14 46	0 5		3 59	5 57	0 47	3 55	1 21	3 3	2 29			22 16				2 7	1 36	8 34	4 16	3 23
T 18	21 7			14 13		12 37	4 13	5 42	0 46	3 56	1 21	3 3	2 29			22 16				2 6	1 37	8 30	4 16	3 23
W19 T 20	20 56			13 41 13 8	0 16 0 27		4 27 4 41	5 27 5 12	0 45 0 44	3 56 3 57	1 22 1 22	3 3 3		23 35 23 35		22 16 22 16		15 27 15 27		2 6 2 7	1 38 1 40	8 27 8 24	4 16 4 15	3 24 3 24
F 21	20 34			12 36	0 38		4 54	4 57	0 43	3 58	1 22	3 3		23 35		22 16		15 28		2 9	1 41	8 20	4 15	3 24
S 22			4 58		0 49		5 8	4 42	0 43	3 59	1 22	3 3		23 35		22 16		15 28		2 11	1 42	8 17	4 15	3 24
S 23	20 11	28 27	5 6	11 34	1 1	12 8	5 21	4 27	0 42	4 0	1 23	3 3	2 30	23 35	0 12	22 16	1 11	15 29	16 19	2 14	1 43	8 14	4 15	3 24
M24	19 58	28 7	4 57	11 4	1 13	12 4	5 34	4 12	0 41	4 1	1 23	3 3	2 30	23 35	0 12	22 16	1 11	15 29	16 19	2 17	1 45	8 10	4 14	3 24
T 25	19 46			10 34	1 25		5 46	3 57	0 40	4 2	1 23	3 3		23 35		22 16				2 20	1 46	8 7	4 14	3 24
W26			3 41	10 6	1 37		5 58	3 42	0 40	4 3	1 24	3 2		23 35		22 16				2 23	1 47	8 4	4 14	3 24
T 27 F 28	19 19 19 6		2 38 1 25		1 49 2 1	11 56 11 55	6 9 6 20	3 26 3 11	0 39 0 38	4 5 4 6		3 2 3 2		23 35 23 35		22 16 22 16				2 25 2 26	1 48 1 50	8 0 7 57	4 14 4 13	3 24 3 24
S 29	18 52		0 6			11 54	6 30	2 56	0 38	4 8	1 24	3 2		23 35		22 17		15 32		2 27	1 51	7 54	4 13	3 24
S 30	18 38	4n 0	1n12	8 22	2 26	11 54	6 40	2 41	0 37	4 9	1 25	3 1	2 32	23 35	0 12	22 17	1 11	15 32	16 21	2 26	1 52	7 50	4 12	3 25
M31	18n23	10n37	2n24	7n59	2 s 3 9	11n55	6 s 4 9	2n25	0n36	4s11	1 s25	3n 1	2 s32	23 s35	0s12	22 s17	1n11	15 s33	16 s22	$2\mathrm{s}26$	1 s54	7n47	4n12	3n25

Julian Day Number = 2385982.5, Delta T = 16.49 sec Ecliptic obliquity = 23°27'54, Nutation = 0°00'02, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}14'02$, Lahiri = $21^{\circ}21'02$

AUGUST 1820 00:00 UT

Day	Sid.t	\odot	D	ğ	φ	♂	4	ħ)ਮੂ(卉	Р	r	Ω	Ç	Š	Day
T 1	20 38 3	8 Ω 34'35	5 8 26	3 m) 20	6°R29	25 m 55	22°R42	13°R32	25°R18	28°R30	28°R32	23°R54	25) 11	12 Mp 56	2°R40	T 1
W 2	20 42 0	9°32'01	19° 1	3°43	5 Ω 52	26°32	22) 39	13 Y 32	25 × 16	28 × ⁷ 29	28 米 32	23) 54	25° 8	13° 2	2 Υ 39	W 2
T 3	20 45 56	10°29'29	2 I I19	4° 0	5°16	27° 9	22°35	13°31	25°15	28°28	28°31	23°51	25° 5	13° 9	2°37	T 3
F 4	20 49 53	11°26'58	15°20	4°13	4°40	27°47	22°31	13°30	25°13	28°27	28°30	23°47	25° 2	13°16	2°36	F 4
S 5	20 53 49	12°24'28	28° 7	4°22	4° 5	28°24	22°26	13°29	25°12	28°26	28°29	23°42	24°59	13°22	2°34	S 5
S 6	20 57 46	13°22'00	109540	4°R24	3°32	29° 2	22°22	13°28	25°11	28°25	28°29	23°35	24°56	13°29	2°33	S 6
M 7	21 1 42	14°19'33	23° 2	4°22	3° 0	29°39	22°17	13°27	25° 9	28°24	28°28	23°28	24°52	13°36	2°31	M 7
T 8	21 5 39	15°17'07	5 Ω 14	4°14	2°29	0 ₽ 17	22°13	13°25	25° 8	28°23	28°27	23°21	24°49	13°42	2°29	T 8
W 9	21 9 35	16°14'42	17°16	4° 1	2° 0	0°54	22° 8	13°24	25° 7	28°22	28°26	23°16	24°46	13°49	2°28	W 9
T 10	21 13 32	17°12'18	29°11	3°43	1°33	1°32	22° 2	13°23	25° 5	28°21	28°25	23°12	24°43	13°56	2°26	T 10
F 11	21 17 29	18° 9'55	11 Mp 1	3°19	1° 8	2°10	21°57	13°21	25° 4	28°20	28°25	23° 9	24°40	14° 2	2°24	F 11
S 12	21 21 25	19° 7'34	22°47	2°49	0°45	2°48	21°52	13°19	25° 3	28°19	28°24	23°D 8	24°37	14° 9	2°22	S 12
S 13	21 25 22	20° 5'13	4 ॒ 34	2°15	0°25	3°26	21°46	13°17	25° 2	28°18	28°23	23° 9	24°33	14°16	2°21	S 13
M14	21 29 18	21° 2'54	16°24	1°36	0° 6	4° 4	21°41	13°16	25° 1	28°18	28°22	23°10	24°30	14°22	2°19	M14
T 15	21 33 15	22° 0'36	28°22	0°53	29950	4°42	21°35	13°14	25° 0	28°17	28°21	23°12	24°27	14°29	2°17	T 15
W16	21 37 11	22°58'19	10 M .32	0° 6	29°36	5°20	21°29	13°12	24°59	28°16	28°20	23°13	24°24	14°35	2°15	W16
T 17	21 41 8	23°56'03	22°59	29 Ω 17	29°25	5°58	21°23	13° 9	24°58	28°15	28°19	23°R14	24°21	14°42	2°13	T 17
F 18	21 45 4	24°53'48	5 ∡ 748	28°25	29°15	6°36	21°16	13° 7	24°57	28°15	28°18	23°14	24°17	14°49	2°11	F 18
S 19	21 49 1	25°51'34	19° 2	27°33	29° 9	7°15	21°10	13° 5	24°57	28°14	28°17	23°12	24°14	14°55	2° 9	S 19
S 20	21 52 58	26°49'22	2 ප් 44	26°40	29° 4	7°53	21° 3	13° 2	24°56	28°13	28°16	23° 9	24°11	15° 2	2° 7	S 20
M21	21 56 54	27°47'10	16°54	25°48	29°D 2	8°31	20°57	13° 0	24°55	28°13	28°15	23° 6	24° 8	15° 9	2° 5	M21
T 22	22 0 51	28°45'00	1≈29	24°58	29° 3	9°10	20°50	12°57	24°55	28°12	28°14	23° 2	24° 5	15°15	2° 2	T 22
W23	22 4 47	29°42'52	16°24	24°12	29° 6	9°49	20°43	12°55	24°54	28°11	28°13	22°59	24° 2	15°22	2° 0	W23
T 24	22 8 44	0 Mp 40'44	1 ★ 32	23°29	29°11	10°27	20°36	12°52	24°53	28°11	28°12	22°57	23°58	15°29	1°58	T 24
F 25	22 12 40	1°38'38	16°44	22°52	29°18	11° 6	20°29	12°49	24°53	28°10	28°11	22°D56	23°55	15°35	1°56	F 25
S 26	22 16 37	2°36'34	1 Υ 48	22°21	29°27	11°45	20°22	12°46	24°53	28°10	28°10	22°56	23°52	15°42	1°53	S 26
S 27	22 20 33	3°34'31	16°38	21°56	29°39	12°24	20°15	12°43	24°52	28° 9	28° 9	22°57	23°49	15°49	1°51	S 27
M28	22 24 30	4°32'31	1 8 8	21°39	29°52	13° 2	20° 7	12°40	24°52	28° 9	28° 8	22°59	23°46	15°55	1°49	M28
T 29	22 28 27	5°30'32	15°14	21°30	0 Ω 8	13°41	20° 0	12°37	24°51	28° 9	28° 7	23° 0	23°43	16° 2	1°46	T 29
W30	22 32 23	6°28'35	28°55	21°D29	0°25	14°20	19°52	12°33	24°51	28° 8	28° 6	23° 0	23°39	16° 9	1°44	W30
T 31	22 36 20	7 Mp 26'41	12 II 12	21 Q 36	0 Ω 45	15 ♀ 0	19 米 45	12 Y 30	24 × 751	28 ≯ 8	28 米 5	23°R 1	23 米 36	16 M p15	1 ° 41	T 31

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T 1 W 2 T 3 F 4 S 5	17 38 17 22	27 44 5 6	7 19 3 1 7 1 3 1 6 45 3 2	5 12 0 7 11 7 12 3 7 16	2n10 0n35 1 54 0 34 1 39 0 34 1 23 0 33 1 8 0 32	4s12 1s25 4 14 1 26 4 16 1 26 4 18 1 26 4 20 1 26	3 0 2 33 2 59 2 33 2 59 2 34	23 35 0 12 23 35 0 12 23 35 0 12	22 17 1 11 22 17 1 11 22 17 1 11	15 s33 16 s22 15 34 16 22 15 35 16 23 15 35 16 23 15 36 16 23	2 26 2 27 2 28	1 56 1 57 1 59	7n43 7 40 7 37 7 33 7 30	4n12 3n25 4 11 3 25 4 11 3 25 4 10 3 25 4 10 3 25
S 6 M 7 T 8 W 9 T 10	16 16 15 59 15 42	25 56 4 30 22 43 3 51 18 35 3 3 13 45 2 7	6 12 3 55 6 6 4 9 6 2 4 18 6 2 4 20	9 12 13 7 29 9 12 18 7 31 8 12 22 7 33 6 12 27 7 34	0 52 0 31 0 36 0 31 0 21 0 30 0 5 0 29 0 s10 0 29	4 28 1 27 4 30 1 28	2 57 2 34 2 56 2 35 2 55 2 35 2 54 2 35	23 34 0 12 23 34 0 12 23 34 0 12 23 34 0 12	22 17 1 11 22 17 1 11 22 17 1 11 22 17 1 11	15 37 16 24 15 38 16 24 15 39 16 24	2 36 2 38 2 41 2 42	2 2 3 2 4 3 2 5 3 2 6 3	7 27 7 23 7 20 7 17 7 13	4 9 3 25 4 9 3 25 4 8 3 25 4 7 3 26 4 7 3 26
F 11 S 12 S 13 M14 T 15 W16 T 17	13 52 13 33		6 18 4 44 6 29 4 44 6 43 4 44 7 0 4 44 7 20 4 44	8 12 37 7 34 2 12 43 7 33 4 12 48 7 31 5 12 54 7 28 5 12 59 7 25 2 13 5 7 22	0 26 0 28 0 42 0 27 0 58 0 26 1 13 0 26 1 29 0 25 1 45 0 24 2 1 0 23	4 42 1 29 4 45 1 29 4 47 1 29	2 52 2 36 2 52 2 36 2 51 2 36 2 50 2 36 2 49 2 37 2 47 2 37	23 34 0 12 23 34 0 12	22 17 1 10 22 17 1 10	15 40 16 25 15 41 16 25 15 41 16 26 15 42 16 26 15 43 16 26	2 44 2 43 2 43 2 42 2 42 2 41	2 9 2 10 2 11 2 12 12 14 0 2 15 0 0	7 3 7 0 6 56 6 53 6 50	4 6 3 26 4 5 3 26 4 5 3 26 4 4 3 26 4 3 3 26 4 3 3 26 4 2 3 26
F 18 S 19 S 20 M21 T 22 W23	12 55 12 35	23 51 4 7	8 6 4 3 8 31 4 2 8 58 4 1 9 26 4	1 13 17 7 13 3 13 22 7 9 2 13 28 7 3 1 13 33 6 58	2 17 0 23 2 32 0 22 2 48 0 21 3 4 0 21 3 20 0 20 3 36 0 19		2 45 2 37 2 44 2 38 2 43 2 38 2 42 2 38	23 34 0 12 23 34 0 12 23 34 0 12 23 34 0 12	22 17 1 10	15 44 16 27 15 44 16 27 15 45 16 27 15 45 16 27	2 42 2 43 2 45 2 46	2 17 0 2 19 0 2 20 0 2 21 0	6 46 6 43 6 40 6 36 6 33 6 29	4 1 3 26 4 0 3 26 4 0 3 26 3 59 3 26 3 58 3 26 3 57 3 26
T 24 F 25 S 26	11 15 10 54 10 33	12 44 1 55 5 46 0 34 1n28 0n49	10 22 3 33 10 49 3 10 11 15 2 59	2 13 44 6 45 6 13 49 6 39 9 13 53 6 32	3 52 0 19 4 7 0 18 4 23 0 17	5 7 1 31 5 10 1 31 5 13 1 31	2 39 2 38 2 38 2 39 2 37 2 39	23 34 0 12 23 34 0 12 23 34 0 12	22 17 1 10 22 17 1 10 22 17 1 10	15 47 16 28 15 47 16 28 15 48 16 28	2 48 2 48 2 48	2 24 6 2 25 6 2 26 6	6 26 6 23 6 19	3 56 3 26 3 55 3 26 3 54 3 26
S 27 M28 T 29 W30 T 31	9 30 9 9	14 56 3 16 20 24 4 10 24 38 4 49	12 24 2 4 12 42 1 4	3 14 2 6 18 4 14 6 6 11 5 14 10 6 3	4 39 0 16 4 55 0 16 5 11 0 15 5 26 0 14 5 s42 0n14	5 19 1 31	2 34 2 39 2 32 2 40 2 31 2 40	23 34 0 12 23 34 0 12 23 34 0 12	22 17 1 10		2 47 2 47 2 47	2 29 2 30 2 31	6 16 6 12 6 9 6 6 6n 2	3 54 3 26 3 53 3 26 3 52 3 26 3 51 3 26 3n50 3n26

Julian Day Number = 2386013.5, Delta T = 16.46 sec Ecliptic obliquity = 23°27'54, Nutation = 0°00'02, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}14'06$, Lahiri = $21^{\circ}21'07$

SEPTEMBER 1820 00:00 UT

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F 1	22 40 16	8 m 24'48	25 II 8	21252	1 Q 6	15 Ω 39	19°R37	12°R27	24°R51	28°R 8	28°R 4	23°R 0	23 米 33	16 m 22	1°R39	F 1
S 2	22 44 13	9°22'57	79545	22°17	1°29	16°18	19 ∺ 29	12 Y 23	24 ৴ 51	28 ≯ 7	28 ∺ 2	22) 59	23°30	16°28	1 Y 36	S 2
S 3	22 48 9	10°21'08	20° 7	22°49	1°54	16°57	19°22	12°20	24°D51	28° 7	28° 1	22°57	23°27	16°35	1°34	S 3
M 4	22 52 6	11°19'21	2 Ω 17	23°31	2°20	17°37	19°14	12°16	24°51	28° 7	28° 0	22°55	23°23	16°42	1°31	M 4
T 5	22 56 2	12°17'36	14°17	24°20	2°49	18°16	19° 6	12°12	24°51	28° 7	27°59	22°54	23°20	16°48	1°29	T 5
W 6	22 59 59	13°15'53	26°11	25°17	3°18	18°56	18°58	12° 9	24°51	28° 7	27°58	22°52	23°17	16°55	1°26	W 6
T 7	23 3 56	14°14'12	8Mp 0	26°21	3°49	19°35	18°50	12° 5	24°51	28° 7	27°57	22°52	23°14	17° 2	1°24	T 7
F 8	23 7 52	15°12'32	19°47	27°31	4°22	20°15	18°42	12° 1	24°51	28° 6	27°56	22°D51	23°11	17° 8	1°21	F 8
S 9	23 11 49	16°10'55	1 ≏ 35	28°48	4°55	20°54	18°34	11°57	24°51	28° 6	27°54	22°51	23° 8	17°15	1°18	S 9
S 10	23 15 45	17° 9'19	13°24	0 Mp 11	5°31	21°34	18°26	11°53	24°52	28°D 6	27°53	22°52	23° 4	17°22	1°16	S 10
M11	23 19 42	18° 7'44	25°19	1°38	6° 7	22°14	18°18	11°49	24°52	28° 6	27°52	22°52	23° 1	17°28	1°13	M11
T 12	23 23 38	19° 6'12	7 ™ 22	3°11	6°45	22°54	18°10	11°45	24°53	28° 6	27°51	22°53	22°58	17°35	1°10	T 12
W13	23 27 35	20° 4'41	19°36	4°47	7°24	23°34	18° 2	11°41	24°53	28° 7	27°50	22°53	22°55	17°42	1° 8	W13
T 14	23 31 31	21° 3'12	2 √ 5	6°26	8° 4	24°14	17°54	11°36	24°54	28° 7	27°49	22°53	22°52	17°48	1° 5	T 14
F 15	23 35 28	22° 1'45	14°52	8° 8	8°45	24°54	17°46	11°32	24°54	28° 7	27°47	22°53	22°49	17°55	1° 2	F 15
S 16	23 39 24	23° 0'19	28° 0	9°53	9°27	25°34	17°38	11°28	24°55	28° 7	27°46	22°53	22°45	18° 1	0°59	S 16
S 17	23 43 21	23°58'55	11 る 33	11°40	10°10	26°14	17°30	11°23	24°55	28° 7	27°45	22°53	22°42	18° 8	0°57	S 17
M18	23 47 18	24°57'33	25°32	13°28	10°54	26°55	17°23	11°19	24°56	28° 8	27°44	22°54	22°39	18°15	0°54	M18
T 19	23 51 14	25°56'12	9 ≈ 55	15°17	11°39	27°35	17°15	11°15	24°57	28° 8	27°43	22°54	22°36	18°21	0°51	T 19
W20	23 55 11	26°54'53	24°41	17° 6	12°25	28°15	17° 7	11°10	24°58	28° 8	27°41	22°54	22°33	18°28	0°48	W20
T 21	23 59 7	27°53'36	9)(44	18°57	13°12	28°56	16°59	11° 6	24°59	28° 9	27°40	22°54	22°29	18°35	0°46	T 21
F 22	0 3 4	28°52'21	24°55	20°47	14° 0	29°36	16°52	11° 1	24°59	28° 9	27°39	22°R55	22°26	18°41	0°43	F 22
S 23	0 7 0	29°51'07	10 ℃ 5	22°38	14°49	0 M .17	16°44	10°57	25° 0	28° 9	27°38	22°54	22°23	18°48	0°40	S 23
S 24	0 10 57	0 ჲ 49'56	25° 6	24°28	15°38	0°58	16°37	10°52	25° 1	28°10	27°37	22°54	22°20	18°55	0°37	S 24
M25	0 14 53	1°48'46	9 8 48	26°18	16°28	1°38	16°29	10°47	25° 3	28°10	27°35	22°53	22°17	19° 1	0°34	M25
T 26	0 18 50	2°47'40	24° 6	28° 8	17°19	2°19	16°22	10°43	25° 4	28°11	27°34	22°52	22°14	19° 8	0°32	T 26
W27	0 22 47	3°46'35	7 Ⅱ 58	29°57	18°11	3° 0	16°14	10°38	25° 5	28°11	27°33	22°51	22°10	19°15	0°29	W27
T 28	0 26 43	4°45'33	21°22	1 ≏ 45	19° 3	3°41	16° 7	10°33	25° 6	28°12	27°32	22°50	22° 7	19°21	0°26	T 28
F 29	0 30 40	5°44'33	49520	3°33	19°56	4°22	16° 0	10°29	25° 7	28°13	27°31	22°D49	22° 4	19°28	0°23	F 29
S 30	0 34 36	6 ₽ 43'35	169556	5 ₽ 20	$20\Omega 50$	5M 3	15 米 53	10 Υ 24	25 × 9	28 × 13	27) 29	22 米 50	22 米 1	19 m 35	o Υ 21	S 30

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	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
F 1 S 2	8n25 8 4	28n39 5n 28 20 5	16 13n 9		14n16 14 19	5 s48 5 40	5 s58 6 14	0n13 0 12	5 s31 5 34	1 s32 1 32	2n28 2 26		23 s34 23 34		22 s18 22 18		15 s 51 16 s 15 52 16		2 s34 2 35	5n59 5 55	3n49 3 48	3n26 3 27
S 3 M 4	-		42 13 24	0 33	14 22	5 32 5 24	6 29	0 12 0 11	5 38 5 41	1 32 1 32	2 25 2 23	2 41 2 41			22 18		15 52 16	29 2 48	2 36	5 52 5 49	3 47 3 46	3 27 3 27
T 5		19 43 3	18 13 25 23 13 20	0 1	14 25	5 16 5 8	7 1 7 16	0 10 0 10	5 44 5 47	1 32 1 32 1 32	2 22 2 20	2 41 2 41	23 34	0 12	22 18	1 9 1 9	15 53 16	29 2 49	2 39	5 45 5 42	3 45 3 44	3 27 3 27 3 27
T 7 F 8	6 13 5 50		22 13 11	0 28	14 27	5 0 4 52	7 32 7 48	0 9 0 8	5 50 5 54	1 32 1 33	2 18 2 17	2 41	23 34 23 34	0 12	22 18 22 18	1 9	15 55 16	30 2 50	2 41	5 39 5 35	3 43 3 42	3 26 3 26
S 9 S 10	5 27 5 5		48 12 43 52 12 24		-	4 44 4 35	8 3 8 19	0 8	5 57	1 33 1 33	2 152 13		23 34 23 34		22 18 22 18	1 9	15 56 16 15 56 16			5 32 5 28	3 41	3 26 3 26
M11 T 12	4 42	12 27 2	-	1 13	-	4 27 4 19	8 34 8 50	0 6 0 6	6 3 6 6	1 33 1 33	2 12 2 10	2 42	23 34 23 34 23 34	0 12	22 18 22 18 22 18			30 2 50	2 46	5 25 5 21	3 38 3 37	3 26 3 26
W13 T 14 F 15	3 33	21 55 4 25 27 4 27 49 5	57 10 37	1 34	14 22	4 11 4 3 3 55	9 5 9 20 9 36	0 5 0 4 0 4	6 9 6 13 6 16	1 33 1 33 1 33	2 8 2 6 2 5	2 42	23 34 23 34 23 34	0 12	22 18 22 18 22 18	1 9 1 9 1 9	15 58 16	30 2 50	2 50	5 18 5 15 5 11	3 36 3 35 3 34	3 26 3 26 3 26
S 16	2 47	28 44 5	17 9 28	1 44	14 16	3 47	9 51	0 3	6 19	1 33	2 3	2 42	23 34	0 12	22 18	1 9	15 59 16	30 2 49	2 53	5 8	3 33	3 26
S 17 M18 T 19	2 24 2 0 1 37	25 27 4	1 8 51 28 8 11 37 7 30			3 31	10 6 10 22 10 37	0 2 0 2 0 1	6 22 6 25 6 28	1 33 1 33 1 33	2 1 1 59 1 57	2 43	23 34 23 34 23 34	0 12	22 18 22 18 22 18	1 9 1 9 1 9	16 0 16	30 2 49	2 55	5 4 5 1 4 58	3 32 3 31 3 29	3 26 3 26 3 26
W20 T 21		15 40 2 9 3 1	31 6 48	1 51	13 59 13 53	3 15		0 0 0s 0	6 31 6 34	1 33	1 55 1 54	2 43	23 34 23 34 23 34	0 12	_	1 9	16 1 16	30 2 49	2 58	4 54 4 51	3 28 3 27	3 26 3 26
F 22 S 23	0 27 0 4	1 51 On 5n27 1				2 59 2 51	11 22 11 37	0 1 0 2	6 37 6 40	1 33 1 33	1 52 1 50		23 34 23 34		22 19 22 19	1 9 1 9				4 47 4 44	3 26 3 25	3 26 3 26
S 24 M25	0 s20 0 43	12 21 2 18 26 3	52 3 3	1 43		2 44 2 36	11 51 12 6	0 2 0 3	6 43 6 46	1 33 1 33	1 48 1 46		23 34 23 34	0 12	22 19 22 19	1 8 1 8	16 3 16 16 4 16			4 41 4 37	3 24 3 22	3 26 3 26
T 26 W27	1 30	26 42 5	38 2 17 7 1 30	1 37	13 9	2 21	12 21 12 36	0 4 0 4	6 49 6 51	1 33	1 44 1 42	2 43	23 34 23 34	0 12		1 8	16 4 16 16 5 16	30 2 51	3 7	4 34 4 30	3 21 3 20	3 26 3 26
T 28 F 29 S 30	-	28 27 5 28 34 5 27n11 4n		1 28	12 51	2 6	12 50 13 5 13 s19	0 5 0 6 0s 6	6 54 6 57 6s59	1 33 1 32 1 s32	1 41 1 39 1n37		23 34 23 34 23 s34	0 12	22 19 22 19 22 s19	1 8 1 8 1n 8	16 5 16 16 6 16 16s 6 16s	30 2 51	3 8 3 9 3 s 10	4 27 4 23 4n20	3 19 3 18 3n17	3 25 3 25 3n25

 $\label{eq:Julian Day Number = 2386044.5, Delta T = 16.44 sec} \\ Ecliptic obliquity = 23°27'55, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 22°14'10, Lahiri = 21°21'11 \\$

OCTOBER 1820 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ) / (¥	В	ß	Ω	Ç	o k	Day
S 1	0 38 33	7 ≗ 42'40	299513	7 <u>₽</u> 7	21\$\Omega44\$	5 M .44	15°R46	10°R19	25 ∡ 10	28 × 14	27°R28	22 米 50	21 米 58	19 m)41	0°R18	S 1
M 2	0 42 29	8°41'47	11 Ω 17	8°52	22°39	6°25	15) (40	10 Y 15	25°11	28°15	27) 27	22°52	21°55	19°48	0 Υ 15	M 2
T 3	0 46 26	9°40'56	23°11	10°37	23°35	7° 7	15°33	10°10	25°13	28°15	27°26	22°53	21°51	19°54	0°12	T 3
W 4	0 50 22	10°40'07	5Mm, 0	12°21	24°31	7°48	15°26	10° 5	25°14	28°16	27°25	22°54	21°48	20° 1	0°10	W 4
T 5	0 54 19	11°39'20	16°47	14° 4	25°27	8°29	15°20	10° 0	25°16	28°17	27°24	22°55	21°45	20° 8	0° 7	T 5
F 6	0 58 16	12°38'36	28°34	15°47	26°25	9°11	15°14	9°56	25°18	28°18	27°22	22°R55	21°42	20°14	0° 4	F 6
S 7	1 2 12	13°37'54	10 ≏ 26	17°28	27°22	9°52	15° 8	9°51	25°19	28°19	27°21	22°54	21°39	20°21	0° 2	S 7
S 8	1 6 9	14°37'14	22°23	19° 9	28°20	10°34	15° 2	9°46	25°21	28°20	27°20	22°52	21°35	20°28	29 米 59	S 8
M 9	1 10 5	15°36'36	4 M .28	20°49	29°19	11°15	14°56	9°42	25°23	28°21	27°19	22°49	21°32	20°34	29°56	M 9
T 10	1 14 2	16°35'59	16°42	22°29	0 m /18	11°57	14°50	9°37	25°24	28°22	27°18	22°45	21°29	20°41	29°54	T 10
W11	1 17 58	17°35'25	29° 7	24° 7	1°18	12°39	14°45	9°32	25°26	28°23	27°17	22°41	21°26	20°48	29°51	W11
T 12	1 21 55	18°34'53	11 ×7 45	25°45	2°18	13°21	14°39	9°28	25°28	28°24	27°16	22°37	21°23	20°54	29°48	T 12
F 13	1 25 51	19°34'23	24°37	27°23	3°18	14° 2	14°34	9°23	25°30	28°25	27°15	22°34	21°20	21° 1	29°46	F 13
S 14	1 29 48	20°33'54	7 궁 46	28°59	4°19	14°44	14°29	9°18	25°32	28°26	27°13	22°32	21°16	21° 8	29°43	S 14
S 15	1 33 45	21°33'27	21°13	0 M _35	5°20	15°26	14°24	9°14	25°34	28°27	27°12	22°D31	21°13	21°14	29°41	S 15
M16	1 37 41	22°33'02	5≈ 0	2°11	6°22	16° 9	14°19	9° 9	25°36	28°28	27°11	22°32	21°10	21°21	29°38	M16
T 17	1 41 38	23°32'39	19°8	3°45	7°24	16°51	14°15	9° 5	25°38	28°29	27°10	22°33	21° 7	21°27	29°36	T 17
W18	1 45 34	24°32'17	3) (35	5°19	8°26	17°33	14°10	9° 0	25°40	28°30	27° 9	22°35	21° 4	21°34	29°33	W18
T 19	1 49 31	25°31'57	18°18	6°53	9°29	18°15	14° 6	8°56	25°43	28°32	27° 8	22°R36	21° 0	21°41	29°31	T 19
F 20	1 53 27	26°31'38	3 Υ 13	8°26	10°32	18°57	14° 2	8°52	25°45	28°33	27° 7	22°35	20°57	21°47	29°29	F 20
S 21	1 57 24	27°31'22	18°13	9°58	11°35	19°40	13°59	8°47	25°47	28°34	27° 6	22°33	20°54	21°54	29°26	S 21
S 22	2 1 20	28°31'07	3 8 8	11°30	12°39	20°22	13°55	8°43	25°49	28°35	27° 5	22°30	20°51	22° 1	29°24	S 22
M23	2 5 17	29°30'55	17°52	13° 1	13°43	21° 5	13°51	8°39	25°52	28°37	27° 4	22°24	20°48	22° 7	29°22	M23
T 24	2 9 14	0 M 30'44	2 Ⅱ 15	14°31	14°47	21°47	13°48	8°34	25°54	28°38	27° 3	22°18	20°45	22°14	29°19	T 24
W25	2 13 10	1°30'36	16°13	16° 2	15°52	22°30	13°45	8°30	25°57	28°40	27° 2	22°12	20°41	22°21	29°17	W25
T 26	2 17 7	2°30'30	29°44	17°31	16°57	23°13	13°42	8°26	25°59	28°41	27° 1	22° 7	20°38	22°27	29°15	T 26
F 27	2 21 3	3°30'26	129547	19° 0	18° 2	23°55	13°40	8°22	26° 2	28°43	27° 0	22° 3	20°35	22°34	29°13	F 27
S 28	2 25 0	4°30'25	25°27	20°28	19° 8	24°38	13°37	8°18	26° 4	28°44	26°59	22° 1	20°32	22°41	29°10	S 28
S 29	2 28 56	5°30'25	7 Ω 45	21°56	20°13	25°21	13°35	8°14	26° 7	28°46	26°59	22°D 1	20°29	22°47	29° 8	S 29
M30	2 32 53	6°30'28	19°48	23°24	21°19	26° 4	13°33	8°10	26° 9	28°47	26°58	22° 1	20°26	22°54	29° 6	M30
T 31	2 36 49	7 M 30'32	1 m /41	24M50	22 Mp 26	26 ™ 47	13 米 31	8 ℃ 7	26 × 12	28 × 749	26 米 57	22 米 3	20 米 22	23 Mg 0	29 ∺ 4	T 31

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S 1 M 2 T 3	3 27	24n30 4n16 20 47 3 31 16 17 2 37		3 12n30 1 s52 1 3 12 19 1 45 1 7 12 8 1 38 1	3 48 0 7		1 33 2 44	23 34 0 12	22 s19 1 n 8 22 19 1 8 22 19 1 8		2 50	3 s12 4n1 3 13 4 1 3 14 4 1	3 3 14 3 25
W 4 T 5 F 6	4 14 4 37 5 0	5 45 0 34 0 6 0s31	4 42 0 56 5 27 0 49	5 11 44 1 24 1 9 11 31 1 18 1	4 44 0 10	7 12 1 32 7 14 1 32	1 28 2 44 1 26 2 44	23 35 0 12 23 35 0 12	22 19 1 8 22 19 1 8 22 19 1 8	16 8 16 30 16 8 16 30	2 49 2 49	3 18 3 5	
S 7 S 8 M 9 T 10 W11 T 12 F 13	6 32 6 55 7 17 7 40	16 18 3 29 20 54 4 14 24 40 4 48 27 18 5 8 28 35 5 14	6 57 0 37 7 40 0 30 8 24 0 23 9 6 0 17 9 49 0 10 10 30 0 3	0 10 49 0 58 1 3 10 34 0 52 1 7 10 19 0 45 1 0 10 4 0 39 1 3 9 47 0 33 1	5 11 0 11 5 25 0 12 5 38 0 13 5 52 0 13 6 5 0 14 6 18 0 14	7 23 1 31 7 25 1 31 7 27 1 31 7 29 1 31	1 22 2 44 1 20 2 44 1 18 2 44 1 17 2 44 1 15 2 44 1 13 2 44	23 35 0 12 23 35 0 12	22 19 1 8 22 19 1 8 22 20 1 8	16 9 16 30 16 10 16 30 16 10 16 30 16 10 16 29 16 11 16 29 16 11 16 29	2 50 2 51 2 53 2 54 2 56 2 57	3 20 3 5 3 22 3 4 3 23 3 4 3 24 3 4 3 25 3 3 3 27 3 3	9 3 6 3 24 6 3 5 3 24 2 3 4 3 24 9 3 2 3 24 5 3 1 3 24
S 14 S 15 M16 T 17 W18 T 19 F 20 S 21	8 25 8 47 9 9	22 47 3 52 17 51 2 53 11 48 1 42 4 59 0 23 2n10 0n58	11 51 0 11 12 31 0 17 13 10 0 24 13 48 0 31 14 25 0 38	9 14 0 21 1 7 8 57 0 16 1 4 8 39 0 10 1 1 8 21 0 4 1 3 8 2 0n 1 1 5 7 44 0 6 1	6 44 0 16 6 57 0 16 7 9 0 17 7 22 0 17 7 34 0 18 7 47 0 19	7 32 1 30 7 34 1 30 7 35 1 30 7 37 1 30 7 38 1 30 7 40 1 30	1 9 2 43 1 8 2 43 1 6 2 43 1 4 2 43 1 3 2 43 1 1 2 43	23 35 0 12 23 35 0 12 23 35 0 12 23 35 0 12 23 36 0 12 23 36 0 12	22 20 1 7	16 12 16 29 16 12 16 29 16 12 16 29	2 58 2 58 2 57 2 57 2 57 2 57 2 57	3 28 3 3 3 29 3 2 3 30 3 2 3 32 3 2 3 33 3 3 1 3 34 3 1 3 35 3 1 3 37 3	9 2 59 3 23 5 2 58 3 23 2 2 57 3 23 8 2 56 3 23 5 2 55 3 23
S 22 M23 T 24 W25 T 26 F 27 S 28	11 19 11 40 12 1 12 21 12 42	21 16 4 16 25 24 4 52 27 52 5 9 28 36 5 8 27 40 4 51	16 13 0 58 16 47 1 2 17 20 1 11 17 53 1 17 18 25 1 23 18 55 1 29 19 25 1 33	1 6 45 0 22 1 1 6 25 0 27 1 7 6 4 0 31 1 3 5 43 0 36 1 9 5 22 0 41 1	8 23 0 20 8 34 0 21 8 46 0 22 8 57 0 22 9 8 0 23	7 43 1 29 7 45 1 29 7 46 1 29 7 46 1 28 7 47 1 28	0 56 2 43 0 55 2 43 0 53 2 43 0 52 2 43 0 50 2 42	23 36 0 12 23 36 0 12 23 36 0 12 23 36 0 12 23 36 0 12	22 20 1 7 22 20 1 7	16 14 16 27 16 14 16 27 16 14 16 27	3 1 3 3 3 6 3 8 3 9	3 38 3 3 39 3 3 40 2 5 3 42 2 5 3 43 2 5 3 44 2 4 3 45 2 4	4 2 48 3 22 1 2 47 3 22 7 2 46 3 22
S 29 M30 T 31	13 42	17 31 2 46	19 54 1 41 20 22 1 47 20 s49 1 s52	7 4 16 0 54 1	9 41 0 25	7 49 1 28	0 46 2 42	23 36 0 12	22 21 1 7	16 15 16 26 16 15 16 26 16 15 16 s26	3 10	3 47 2 4 3 48 2 3 3 s49 2n3	7 2 43 3 21

Julian Day Number = 2386074.5, Delta T = 16.42 sec Ecliptic obliquity = 23°27'55, Nutation = $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}14'15$, Lahiri = $21^{\circ}21'15$

NOVEMBER 1820 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)∤(¥	Р	v	Ω	Ç	ę,	Day
W 1	2 40 46	8MJ30'39	13 Mp 28	26M16	23 m/32	27 M 30	13°R29	8°R 3	26 × 15	28 × 750	26°R56	22) 4	20) 19	23 m) 7	29°R 2	W 1
T 2	2 44 43	9°30'48	25°15	27°42	24°39	28°13	13 ∺ 28	7 Ƴ 59	26°17	28°52	26 米 55	22°R 4	20°16	23°14	29₩ 0	T 2
F 3	2 48 39	10°30'59	7 ♀ 5	29° 6	25°46	28°56	13°27	7°56	26°20	28°53	26°54	22° 3	20°13	23°20	28°58	F 3
S 4	2 52 36	11°31'12	19° 2	0 ₮ 30	26°53	29°39	13°26	7°52	26°23	28°55	26°53	21°59	20°10	23°27	28°57	S 4
S 5	2 56 32	12°31'26	1 M .10	1°54	28° 1	0 ∡ 23	13°25	7°49	26°26	28°57	26°53	21°53	20° 6	23°34	28°55	S 5
M 6	3 0 29	13°31'43	13°28	3°16	29° 9	1° 6	13°24	7°45	26°29	28°59	26°52	21°45	20° 3	23°40	28°53	M 6
T 7	3 4 25	14°32'01	25°59	4°37	0 ჲ 16	1°50	13°24	7°42	26°32	29° 0	26°51	21°36	20° 0	23°47	28°51	T 7
W 8	3 8 22	15°32'21	8 √ 43	5°57	1°25	2°33	13°23	7°39	26°34	29° 2	26°50	21°25	19°57	23°54	28°49	W 8
T 9	3 12 18	16°32'43	21°39	7°16	2°33	3°17	13°D23	7°36	26°37	29° 4	26°50	21°16	19°54	24° 0	28°48	T 9
F 10	3 16 15	17°33'06	4 ⋜ 47	8°34	3°41	4° 0	13°24	7°33	26°40	29° 6	26°49	21° 7	19°51	24° 7	28°46	F 10
S 11	3 20 12	18°33'31	18° 7	9°50	4°50	4°44	13°24	7°30	26°43	29° 7	26°48	21° 1	19°47	24°14	28°45	S 11
S 12	3 24 8	19°33'57	1≈39	11° 5	5°59	5°28	13°25	7°27	26°47	29° 9	26°48	20°57	19°44	24°20	28°43	S 12
M13	3 28 5	20°34'24	15°23	12°18	7° 8	6°11	13°25	7°24	26°50	29°11	26°47	20°D55	19°41	24°27	28°42	M13
T 14	3 32 1	21°34'53	29°20	13°29	8°17	6°55	13°26	7°21	26°53	29°13	26°46	20°55	19°38	24°34	28°40	T 14
W15	3 35 58	22°35'23	13 ∺ 29	14°37	9°26	7°39	13°28	7°19	26°56	29°15	26°46	20°R56	19°35	24°40	28°39	W15
T 16	3 39 54	23°35'54	27°50	15°43	10°36	8°23	13°29	7°16	26°59	29°17	26°45	20°56	19°32	24°47	28°38	T 16
F 17	3 43 51	24°36'26	12 Y 20	16°46	11°46	9° 7	13°31	7°14	27° 2	29°19	26°45	20°54	19°28	24°53	28°36	F 17
S 18	3 47 47	25°37'00	26°56	17°45	12°55	9°51	13°33	7°11	27° 5	29°21	26°44	20°50	19°25	25° 0	28°35	S 18
S 19	3 51 44	26°37'35	11831	18°41	14° 5	10°35	13°35	7° 9	27° 9	29°23	26°44	20°43	19°22	25° 7	28°34	S 19
M20	3 55 41	27°38'11	25°58	19°32	15°16	11°19	13°37	7° 7	27°12	29°25	26°43	20°33	19°19	25°13	28°33	M20
T 21	3 59 37	28°38'49	10 Ⅱ 12	20°18	16°26	12° 4	13°39	7° 5	27°15	29°27	26°43	20°22	19°16	25°20	28°32	T 21
W22	4 3 34	29°39'29	24° 6	20°59	17°36	12°48	13°42	7° 3	27°18	29°29	26°42	20°11	19°12	25°27	28°31	W22
T 23	4 7 30	0 ₮ 40'10	7936	21°33	18°47	13°32	13°45	7° 1	27°22	29°31	26°42	20° 0	19° 9	25°33	28°30	T 23
F 24	4 11 27	1°40'52	20°42	22° 1	19°58	14°17	13°48	6°59	27°25	29°33	26°41	19°51	19° 6	25°40	28°29	F 24
S 25	4 15 23	2°41'36	3 Ω 23	22°21	21° 8	15° 1	13°51	6°58	27°28	29°35	26°41	19°45	19° 3	25°47	28°28	S 25
S 26	4 19 20	3°42'21	15°44	22°32	22°19	15°45	13°54	6°56	27°32	29°37	26°41	19°41	19° 0	25°53	28°27	S 26
M27	4 23 16	4°43'08	27°49	22°R33	23°30	16°30	13°58	6°55	27°35	29°39	26°40	19°40	18°57	26° 0	28°27	M27
T 28	4 27 13	5°43'57	9 m 42	22°25	24°42	17°15	14° 2	6°53	27°39	29°41	26°40	19°D40	18°53	26° 7	28°26	T 28
W29	4 31 10	6°44'46	21°30	22° 6	25°53	17°59	14° 6	6°52	27°42	29°43	26°40	19°R40	18°50	26°13	28°25	W29
T 30	4 35 6	7 . ₹45'38	3 ≏ 18	21 × ⁷ 36	27 ♀ 4	18 ×7 44	14 米 10	6 Ƴ 51	27 ×7 45	29 х 45	26 米 40	19) (39	18) (47	26Mp20	28 米 25	T 30

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S 5 M 6 T 7 W 8	15 37 15 55 16 13 16 31	14 56 3 19 43 4 23 44 4 26 41 4	15 22 47 1 23 7 36 23 26 58 23 44	2 16 2 20 2 23 2 27	1 58 1 34 1 10 0 46	1 17 20 1 20 20 1 23 21 1 27 21	43 0 28 52 0 29 1 0 29 11 0 30	7 51 7 51 7 51 7 51	1 26 1 26 1 26 1 25	0 38 0 37 0 36 0 35	2 41 2 41 2 41 2 41	23 37 23 37 23 37 23 37	0 12 0 12 0 12 0 12	22 21 22 21 22 21 22 21 22 21	1 7 1 7 1 7 1 7	16 16 16 2 16 16 16 2 16 16 16 2 16 16 16 2	5 3 13 4 3 16 4 3 20 4 3 24	3 55 3 57 3 58 3 59	2 16 2 13 2 10 2 6	2 37 3 2 36 3 2 35 3 2 35 3	3 20 3 20 3 19 3 19
T 9 F 10 S 11	17 22	28 19 4 26 44 4	5 24 0 57 24 15 32 24 29	2 30 2 32 2 34	0 21 0s 3 0 28	1 30 21 1 33 21 1 35 21	29 0 31 37 0 31	7 51 7 50		0 34 0 33 0 32	2 40 2 40	23 37 23 37 23 37	0 12 0 12	22 21 22 21 22 21	1 7 1 7	16 16 16 2 16 16 16 2 16 16 16 2	3 3 31 3 34		2 3 1 59 1 56	2 33 3 2 32 3	3 19 3 19 3 19
S 12 M13 T 14 W15 T 16 F 17	17 55 18 11 18 26 18 42 18 56	19 5 2 13 29 1 7 7 0 0 18 0r 6n35 1	52 24 42 58 24 53 53 25 2 40 25 11 137 25 17 52 25 22	2 36 2 37 2 37 2 37 2 36 2 35	0 53 1 17 1 42 2 8 2 33 2 58	1 38 21 1 41 21 1 43 22 1 46 22 1 48 22 1 50 22	54 0 32 2 0 33 10 0 34 17 0 34 25 0 35	7 49 7 49 7 48 7 47 7 46	1 24 1 24 1 24 1 24 1 23	0 31 0 30 0 29 0 28 0 27 0 26	2 40 2 39 2 39 2 39 2 39 2 39	23 37 23 38 23 38 23 38 23 38 23 38	0 12 0 12 0 12 0 12 0 12 0 12	22 21 22 21 22 21 22 21 22 21 22 21 22 21	1 6 1 6 1 6 1 6 1 6	16 16 16 2 16 16 16 2 16 16 16 2 16 16 16 2	3 3 36 2 3 36 2 3 36 2 3 36 1 3 37	4 5 4 7 4 8 4 9 4 10	1 52 1 49 1 45 1 42 1 39 1 35	2 31 3 2 30 3 2 29 3 2 28 3 2 28 3	3 18 3 18 3 18 3 18 3 17 3 17
S 18 S 19 M20 T 21 W22 T 23 F 24	19 25 19 39 19 53	19 2 3 23 43 4 26 55 4 28 21 5 28 3 4	59 25 26 55 25 28 35 25 28 58 25 27 2 25 23 48 25 18 20 25 12	2 32 2 29 2 25 2 20 2 14 2 7 1 58	3 23 3 49 4 14 4 40 5 5 5 31 5 56	1 52 22 1 54 22 1 56 22 1 57 22 1 59 22 2 0 23 2 2 23	39 0 36 46 0 36 52 0 37 58 0 37 4 0 38	7 44 7 43 7 42 7 41	1 23	0 26 0 25 0 24 0 24 0 23 0 23 0 22	2 38 2 38 2 38 2 38 2 38	23 38 23 38 23 38 23 38 23 38 23 38 23 38	0 12 0 12 0 12 0 12 0 12	22 22 22 22 22 22 22 22 22 22 22 22 22 22	1 6 1 6 1 6 1 6 1 6	16 15 16 2	1 3 41 0 3 45 0 3 49 0 3 54 0 3 58	4 12 4 13 4 14 4 15 4 17 4 18 4 19	1 32 1 28 1 25 1 21 1 18 1 14 1 11	2 26 3 2 26 3 2 25 3 2 24 3 2 24 3	3 17 3 17 3 16 3 16 3 16 3 16
S 25 S 26 M27 T 28 W29	20 43	22 59 3 18 50 2 14 1 1 8 45 0 3 14 0s	40 25 3 50 24 52 53 24 40 53 24 25 \$10 24 8 \$12 23 \$50	1 49 1 37 1 25 1 10 0 55	6 21 6 47 7 12 7 37 8 2 8 s28	2 3 23 2 4 23 2 5 23 2 6 23 2 7 23 2n 7 23	16 0 39 21 0 39 26 0 40 31 0 40 36 0 41	7 37 7 35 7 33	1 21 1 21 1 21 1 21 1 20	0 22 0 21 0 21 0 21 0 20 0n20	2 37 2 37 2 37 2 36 2 36	23 38 23 38 23 38 23 39 23 39 23 s39	0 12 0 12 0 12 0 12 0 12	22 22 22 22 22 22 22 22 22 22 22 22 22 s22	1 6 1 6 1 6 1 6 1 6	16 15 16 1 16 15 16 1 16 14 16 1 16 14 16 1	9 4 4 9 4 5 8 4 6 8 4 6 8 4 6	4 20 4 22 4 23 4 24 4 25	1 8 1 4 1 1 0 57 0 54 0n50	2 23 3 2 22 3 2 22 3 2 21 3 2 21 3	3 15 3 15 3 15 3 15 3 14 3 14

Julian Day Number = 2386105.5, Delta T = 16.39 sec Ecliptic obliquity = $23^{\circ}27'55$, Nutation = $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}14'19$, Lahiri = $21^{\circ}21'19$

DECEMBER 1820 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(卉	Р	n	v	Ç	Ŷ,	Day
F 1	4 39 3	8 ∡ 746'30	15 ₽ 10	20°R54	28 ≏ 16	19 × ⁷ 29	14) 15	6°R50	27 ∡7 49	29 х 47	26°R39	19°R36	18) (44	26Mp26	28°R24	F 1
S 2	4 42 59	9°47'24	27°13	20 ∡ 2	29°28	20°14	14°19	6 Ƴ 49	27°52	29°50	26 ∺ 39	19 ∺ 31	18°41	26°33	28 米 24	S 2
S 3	4 46 56	10°48'19	9 M .29	19° 0	0 M .39	20°58	14°24	6°48	27°56	29°52	26°39	19°23	18°38	26°40	28°23	S 3
M 4	4 50 52	11°49'16	22° 0	17°50	1°51	21°43	14°29	6°48	27°59	29°54	26°39	19°12	18°34	26°46	28°23	M 4
T 5	4 54 49	12°50'14	4 √ 49	16°32	3° 3	22°28	14°34	6°47	28° 3	29°56	26°39	18°59	18°31	26°53	28°23	T 5
W 6	4 58 45	13°51'12	17°53	15°11	4°15	23°13	14°39	6°47	28° 6	29°58	26°38	18°45	18°28	27° 0	28°22	W 6
T 7	5 2 42	14°52'12	1 궁 13	13°48	5°27	23°59	14°45	6°46	28°10	0ਰ 1	26°38	18°32	18°25	27° 6	28°22	T 7
F 8	5 6 39	15°53'12	14°46	12°26	6°40	24°44	14°50	6°46	28°14	0° 3	26°38	18°20	18°22	27°13	28°22	F 8
S 9	5 10 35	16°54'14	28°28	11° 8	7°52	25°29	14°56	6°46	28°17	0° 5	26°38	18°11	18°18	27°20	28°22	S 9
S 10	5 14 32	17°55'15	12≈17	9°57	9° 4	26°14	15° 2	6°D46	28°21	0° 7	26°38	18° 5	18°15	27°26	28°D22	S 10
M11	5 18 28	18°56'18	26°12	8°54	10°17	26°59	15° 8	6°46	28°24	0° 9	26°D38	18° 2	18°12	27°33	28°22	M11
T 12	5 22 25	19°57'20	10) (12	8° 1	11°29	27°45	15°15	6°46	28°28	0°12	26°38	18° 1	18° 9	27°40	28°22	T 12
W13	5 26 21	20°58'23	24°15	7°19	12°42	28°30	15°21	6°46	28°31	0°14	26°38	18° 1	18° 6	27°46	28°22	W13
T 14	5 30 18	21°59'27	8 Υ 21	6°48	13°54	29°16	15°28	6°47	28°35	0°16	26°38	18° 0	18° 3	27°53	28°23	T 14
F 15	5 34 15	23° 0'31	22°30	6°27	15° 7	0ਰ 1	15°35	6°47	28°39	0°18	26°38	17°58	17°59	28° 0	28°23	F 15
S 16	5 38 11	24° 1'35	6 8 39	6°D18	16°20	0°47	15°42	6°48	28°42	0°21	26°38	17°53	17°56	28° 6	28°23	S 16
S 17	5 42 8	25° 2'39	20°46	6°18	17°33	1°32	15°49	6°49	28°46	0°23	26°39	17°45	17°53	28°13	28°24	S 17
M18	5 46 4	26° 3'44	4 Ⅱ 48	6°29	18°46	2°18	15°57	6°49	28°50	0°25	26°39	17°34	17°50	28°19	28°24	M18
T 19	5 50 1	27° 4'50	18°38	6°47	19°59	3° 3	16° 4	6°50	28°53	0°27	26°39	17°22	17°47	28°26	28°25	T 19
W20	5 53 57	28° 5'56	29514	7°14	21°12	3°49	16°12	6°51	28°57	0°30	26°39	17° 9	17°44	28°33	28°25	W20
T 21	5 57 54	2 <u>9°</u> 7'02	15°32	7°48	22°25	4°35	16°20	6°53	29° 0	0°32	26°39	16°56	17°40	28°39	28°26	T 21
F 22	6 1 50	0중 8'09	28°30	8°28	23°38	5°21	16°28	6°54	29° 4	0°34	26°40	16°46	17°37	28°46	28°26	F 22
S 23	6 5 47	1° 9'16	11 Ω 9	9°13	24°51	6° 6	16°36	6°55	29° 8	0°37	26°40	16°38	17°34	28°53	28°27	S 23
S 24	6 9 44	2°10'24	23°29	10° 4	26° 5	6°52	16°44	6°57	29°11	0°39	26°40	16°33	17°31	28°59	28°28	S 24
M25	6 13 40	3°11'32	5 m 34	10°59	27°18	7°38	16°52	6°58	29°15	0°41	26°41	16°31	17°28	29° 6	28°29	M25
T 26	6 17 37	4°12'41	17°28	11°58	28°31	8°24	17° 1	7° 0	29°18	0°43	26°41	16°D30	17°24	29°13	28°30	T 26
W27	6 21 33	5°13'50	29°16	13° 1	29°45	9°10	17°10	7° 2	29°22	0°46	26°41	16°31	17°21	29°19	28°31	W27
T 28	6 25 30	6°15'00	11 ♀ 4	14° 6	0 ∡ 758	9°56	17°18	7° 4	29°26	0°48	26°42	16°R31	17°18	29°26	28°32	T 28
F 29	6 29 26	7°16'10	22°58	15°14	2°12	10°42	17°27	7° 6	29°29	0°50	26°42	16°29	17°15	29°33	28°33	F 29
S 30	6 33 23	8°17'20	5 M 2	16°25	3°26	11°28	17°37	7° 8	29°33	0°52	26°43	16°26	17°12	29°39	28°34	S 30
S 31	6 37 19	9 ප 18'31	17 M 21	17 ∡ ³38	4 ₹ 39	12 る 15	17) 46	7 Υ 10	29 х 36	0 궁 55	26) 43	16 ∺ 20	17 米 9	29 Mp 46	28 米 35	S 31

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S 3 M 4 T 5 W 6	22 22	22 35 4 27 25 53 4 51	22 41 0n2 22 15 0 4 21 47 1 1 21 19 1 2	0 10 7 2 9 23 0 10 31 2 9 23	55 0 43		0 20 2 35 0 20 2 35	23 39 0 12 23 39 0 12	22 22 1 6 22 22 1 6 22 22 1 6 22 22 1 6	16 13 16 15	4 17 4 4 22 4	30 0 40 31 0 37 33 0 33 34 0 30	2 19 3 13 2 18 3 13
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S 10 M11 T 12 W13 T 14	22 55 23 0 23 5 23 9 23 13	14 34 1 53 8 23 0 41 1 47 0n33	19 36 2 2 19 16 2 3 19 0 2 4 18 47 2 4 18 38 2 5	4 12 53 2 8 24 2 13 16 2 8 24 8 13 39 2 7 24	12 0 46 14 0 47 15 0 47	7 3 1 18 7 1 1 17 6 58 1 17	0 21 2 33 0 21 2 33 0 21 2 33	23 39 0 12 23 39 0 12 23 39 0 12	22 22 1 6 22 22 1 6	16 11 16 13 16 11 16 13 16 10 16 13	4 44 4 4 45 4 4 45 4	39 0 16 40 0 12 41 0 9 43 0 6	2 17 3 11 2 16 3 11 2 16 3 11
F 15 S 16	23 17 23 20	11 25 2 51 17 19 3 47	18 33 2 5 18 31 2 5	4 14 23 2 5 24 4 14 45 2 5 24	16 0 48 16 0 49	6 52 1 17 6 49 1 17	0 22 2 32 0 23 2 32	23 40 0 12 23 40 0 12	22 22 1 6 22 22 1 6	16 10 16 12 16 9 16 12	4 46 4 4 48 4	45 0s 1 46 0 5	2 16 3 10 2 16 3 10
S 17 M18 T 19 W20 T 21	23 24 23 26 23 27 23 28	25 55 4 53 27 58 5 0 28 17 4 50 26 56 4 24		0 15 28 2 3 24 6 15 48 2 1 24 1 16 9 2 0 24 6 16 29 1 59 24	16 0 49 16 0 50 15 0 50 14 0 51	6 43 1 16 6 40 1 16 6 37 1 16 6 34 1 15	0 24 2 31 0 24 2 31 0 25 2 31 0 26 2 31	23 40 0 12 23 40 0 12 23 40 0 12 23 40 0 12	22 22 1 6 22 22 1 6 22 22 1 6	16 9 16 11 16 8 16 11 16 8 16 10 16 7 16 10	4 55 4 5 0 4 5 5 4 5 10 4	48 0 8 49 0 12 50 0 15 51 0 19 53 0 22	2 16 3 10 2 16 3 9 2 16 3 9 2 16 3 9
F 22 S 23 S 24		20 16 2 56		0 16 48 1 58 24 3 17 7 1 56 24 5 17 26 1 55 24			0 27 2 30	23 40 0 12	22 22 1 6 22 22 1 6 22 22 1 6	16 6 16 9	5 17 4	54 0 25 55 0 29 56 0 32	2 16 3 9
M25 T 26 W27	23 26 23 24 23 22	4 53 0s 5 0s44 1 7	20 16 2 2 20 32 1 5		7 0 52 4 0 53 2 0 53	6 13 1 14	0 30 2 29 0 31 2 29	23 40 0 12	22 22 1 6 22 22 1 6	16 5 16 8 16 5 16 8	5 20 4 5 20 5		2 16 3 8 2 16 3 8
		11 44 3 1 16 48 3 48	21 5 1 3 21 20 1 2	5 18 54 1 46 23 6 19 10 1 44 23	56 0 54 52 0 54	6 6 1 14 6 2 1 14	0 33 2 29 0 34 2 28	23 40 0 12 23 40 0 12	22 22 1 6 22 22 1 6 22 22 1 6	16 4 16 7 16 3 16 7	5 20 5 5 20 5 5 22 5	3 0 50 4 0 53	2 17 3 7 2 17 3 7
331	23S 8	21 s17 4 s26	21 s36 1n1	8 19 s 25 1 n 42 23 s	48 0s55	5 s 5 8 1 s 1 4	0n35 2s28	23 s40 0 s12	22 s22 1n 6	16s 3 16s 6	3 s24 3	s 5 0s56	2n17 3n 7

Julian Day Number = 2386135.5, Delta T = 16.37 sec Ecliptic obliquity = $23^{\circ}27'54$, Nutation = $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $22^{\circ}14'23$, Lahiri = $21^{\circ}21'23$