

# Astrodienst Ephemeris Tables for the year 1890

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 1890 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)/(	并	Р	r	ಬ	Ç	o k	Day
W 1	6 42 23	10 <b>る</b> 34'55	13 <b>8</b> 14	24 <b>궁</b> 20	28 <b>×</b> 757	29 <b>₽</b> 59	17 <b>る</b> 50	3°R38	26 <b>₽</b> 18	2°R12	5°R20	399 2	2932	179528	19°R49	W 1
T 2	6 46 19	11°36'05	25°29	25°55	0 <b>궁</b> 12	0 <b>M</b> .33	18° 4	3 Mp 36	26°20	2 <b>I</b> I11	5 <b>Ⅱ</b> 19	3° 3	2°29	17°35	199544	T 2
F 3	6 50 16	12°37'14	7 <b>Ⅲ</b> 33	27°29	1°27	1° 7	18°18	3°34	26°21	2°10	5°18	3° 4	2°26	17°42	19°40	F 3
S 4	6 54 13	13°38'22	19°30	29° 3	2°43	1°40	18°32	3°32	26°23	2° 9	5°17	3° 4	2°23	17°48	19°36	S 4
S 5	6 58 9	14°39'31	19921	0≈36	3°58	2°14	18°46	3°29	26°24	2° 8	5°17	3°R 5	2°20	17°55	19°32	S 5
M 6	7 2 6	15°40'39	13° 9	2° 7	5°14	2°47	19° 0	3°27	26°26	2° 6	5°16	3° 4	2°16	18° 2	19°27	M 6
T 7	7 6 2	16°41'48	24°57	3°36	6°29	3°21	19°14	3°24	26°27	2° 5	5°15	3° 4	2°13	18° 8	19°23	T 7
W 8	7 9 59	17°42'56	6Ω47	5° 4	7°45	3°54	19°28	3°22	26°28	2° 4	5°14	3° 2	2°10	18°15	19°19	W 8
T 9	7 13 55	18°44'03	18°40	6°29	9° 0	4°27	19°42	3°19	26°29	2° 3	5°13	2°59	2° 7	18°22	19°14	T 9
F 10	7 17 52	19°45'11	0 Mp 40	7°51	10°15	5° 0	19°56	3°16	26°31	2° 2	5°13	2°57	2° 4	18°28	19°10	F 10
S 11	7 21 49	20°46'18	12°47	9°10	11°31	5°33	20°10	3°14	26°32	2° 1	5°12	2°54	2° 1	18°35	19° 6	S 11
S 12	7 25 45	21°47'26	25° 6	10°25	12°46	6° 6	20°24	3°11	26°33	2° 0	5°11	2°52	1°57	18°42	19° 2	S 12
M13	7 29 42	22°48'33	7 <b>≙</b> 40	11°35	14° 2	6°39	20°38	3°8	26°34	1°59	5°10	2°50	1°54	18°48	18°57	M13
T 14	7 33 38	23°49'40	20°32	12°40	15°17	7°12	20°52	3° 4	26°35	1°58	5°10	2°D49	1°51	18°55	18°53	T 14
W15	7 37 35	24°50'46	3 <b>M</b> .46	13°39	16°32	7°44	21° 6	3° 1	26°36	1°57	5° 9	2°49	1°48	19° 2	18°49	W15
T 16	7 41 31	25°51'53	17°23	14°31	17°48	8°17	21°20	2°58	26°37	1°57	5°8	2°50	1°45	19°8	18°44	T 16
F 17	7 45 28	26°52'59	1 <b>√</b> 26	15°14	19° 3	8°49	21°34	2°55	26°37	1°56	5° 8	2°52	1°42	19°15	18°40	F 17
S 18	7 49 24	27°54'05	15°54	15°49	20°19	9°22	21°48	2°51	26°38	1°55	5° 7	2°53	1°38	19°22	18°36	S 18
S 19	7 53 21	28°55'11	0 <b>궁</b> 44	16°14	21°34	9°54	22° 2	2°48	26°39	1°54	5° 6	2°R54	1°35	19°28	18°32	S 19
M20	7 57 18	29°56'16	15°50	16°29	22°49	10°26	22°16	2°44	26°39	1°53	5° 6	2°53	1°32	19°35	18°27	M20
T 21	8 1 14	0≈57'21	1≈ 4	16°R33	24° 5	10°58	22°30	2°40	26°40	1°53	5° 5	2°51	1°29	19°42	18°23	T 21
W22	8 5 1 1	1°58'25	16°15	16°25	25°20	11°30	22°44	2°37	26°41	1°52	5° 5	2°48	1°26	19°48	18°19	W22
T 23	8 9 7	2°59'28	1 <b>) (</b> 15	16° 6	26°36	12° 2	22°58	2°33	26°41	1°51	5° 4	2°44	1°22	19°55	18°15	T 23
F 24	8 13 4	4° 0'30	15°53	15°36	27°51	12°34	23°12	2°29	26°41	1°51	5° 3	2°39	1°19	20° 1	18°11	F 24
S 25	8 17 0	5° 1'30	0 <b>Υ</b> 6	14°54	29° 6	13° 5	23°26	2°25	26°42	1°50	5° 3	2°35	1°16	20° 8	18° 7	S 25
S 26	8 20 57	6° 2'30	13°49	14° 3	0≈22	13°37	23°40	2°21	26°42	1°50	5° 2	2°31	1°13	20°15	18° 3	S 26
M27	8 24 53	7° 3'28	27° 4	13° 3	1°37	14° 8	23°54	2°17	26°42	1°49	5° 2	2°29	1°10	20°21	17°59	M27
T 28	8 28 50	8° 4'26	9 <b>8</b> 53	11°57	2°52	14°39	24° 8	2°13	26°42	1°49	5° 2	2°D29	1° 7	20°28	17°55	T 28
W29	8 32 47	9° 5'22	22°20	10°46	4° 8	15°10	24°22	2° 8	26°43	1°48	5° 1	2°29	1° 3	20°35	17°51	W29
T 30	8 36 43	10° 6'17	4 <b>Ⅱ</b> 30	9°32	5°23	15°41	24°35	2° 4	26°43	1°48	5° 1	2°31	1° 0	20°41	17°47	T 30
F 31	8 40 40	11≈ 7'10	16∏28	8≈17	6≈38	16ML12	24 <b>궁</b> 49	2 M) 0	26°R43	1 <b>Ⅱ</b> 47	5 <b>I</b> I 0	2933	0957	209548	179543	F 31

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W 1 T 2 F 3	23 s 2 22 57 22 51	16 0 3 14	23 s 19 22 59 22 38	2s 5 23 s23 2 3 23 26 2 0 23 28	0 2 10 1	9 1 26	22 s27 22 25 22 24	0s11 0 11		1n34 1 35 1 35	9 s37 9 37 9 38	0n35 0 35 0 35	18n58 18 58 18 57	1 s41 1 41	9 21 12 2	23n25 23 25 23 25 23 25	23 26	23 38	14 29	7 s35 7 35 7 35
S 4			22 15				22 24	0 12		1 35	9 38		18 57	1 41 1 41		23 25				7 35
S 5 M 6 T 7 W 8 T 9	22 32 22 25 22 17 22 9	23 44 0n56 23 6 1 58 21 26 2 56 18 49 3 47		1 45 23 29 1 39 23 28 1 32 23 27 1 24 23 24	0 8 11 0 11 11 1 0 13 11 2 0 15 11 4	6 1 26 7 1 26 9 1 26 0 1 26	22 16 22 14 22 12	0 12 0 12 0 12 0 12	11 45 11 46 11 47	1 35 1 35 1 36 1 36 1 36	9 39 9 39 9 40 9 40 9 41	0 35 0 35 0 35 0 35	18 57 18 57 18 56 18 56	1 41 1 41 1 41 1 41 1 41	9 21 12 1 9 21 12 1 9 21 12 1 9 21 12 1	23 25 23 25	23 26 23 26 23 26 23 26	23 38 23 38 23 37 23 37	14 31 14 32 14 32 14 33	7 36 7 36 7 36 7 36 7 36
F 10 S 11	22 0 21 51			1 16 23 21 1 6 23 17	0 18 11 5 0 20 12	1 1 26 2 1 26	22 10 22 8		11 48 11 50	1 36 1 37	9 41 9 41	0 35 0 35	18 56 18 56	1 41 1 41		23 25 23 25				7 36 7 36
S 12 M13 T 14 W15 T 16 F 17 S 18	21 41 21 31 21 21 21 10 20 59 20 48 20 36	13 26 3 45 17 46 2 45	18 1 17 31 17 1 16 32	0 55 23 13 0 44 23 8 0 31 23 2 0 17 22 55 0 3 22 48 0n13 22 40 0 29 22 31	0 25 12 2 0 27 12 3 0 29 12 4 0 32 12 5	4 1 26 5 1 25 5 1 25 6 1 25 6 1 25	22 4 22 2	0 12 0 12 0 13 0 13 0 13 0 13 0 13	11 52 11 54 11 55 11 56	1 37 1 37 1 37 1 37 1 38 1 38 1 38	9 42 9 42 9 42 9 43 9 43 9 43 9 44	0 35 0 35 0 35 0 36 0 36	18 56 18 56 18 55 18 55 18 55	1 41 1 40 1 40 1 40 1 40 1 40 1 40	9 21 12 0 9 22 12 0 9 22 11 59		23 26 23 26 23 26 23 27 23 27	23 37 23 37 23 37 23 37 23 37	14 35 14 35 14 36 14 37 14 37	7 36 7 36 7 36 7 36 7 36 7 36 7 36
S 19 M20 T 21 W22 T 23 F 24 S 25	20 11 19 57	23 41 1 s 1 1 22 21 2 29 19 24 3 3 6 15 12 4 27 10 10 5 0	14 20 14 9	0 46 22 21 1 4 22 11 1 22 22 0 1 40 21 49 1 58 21 37 2 15 21 24 2 32 21 10	0 45 13 5 0 47 14 0 49 14 1	7 1 25 7 1 25 7 1 24 7 1 24 7 1 24	21 52 21 50 21 48 21 45 21 43 21 41 21 39	0 13 0 13 0 13 0 13 0 13 0 14 0 14	12 2 12 4 12 5 12 7	1 38 1 38 1 39 1 39 1 39 1 39 1 39	9 44 9 44 9 44 9 44 9 45 9 45	0 36	18 55 18 55 18 55 18 55 18 55	1 40 1 40 1 40 1 40 1 40 1 40 1 40	9 23 11 58 9 23 11 58 9 23 11 58	23 25 3 23 25 3 23 25 3 23 26 4 23 26	23 27 23 27 23 27 23 27 23 27	23 36 23 36 23 36 23 36 23 36	14 39 14 40 14 41 14 41 14 42	7 36 7 36 7 36 7 35 7 35 7 35 7 35 7 35
S 26 M27 T 28 W29 T 30 F 31		6 0 4 45 10 51 4 9 15 6 3 22 18 38 2 27	14 7 14 17	3 2 20 42 3 14 20 26 3 23 20 10 3 31 19 54	0 54 14 4 0 56 14 5 0 58 15 1 0 15 1	6 1 23 5 1 23 4 1 23 3 1 23	21 36 21 34 21 32 21 29 21 27 21 s25	0 14 0 14 0 14 0 14	12 15 12 16	1 39 1 40 1 40 1 40 1 40 1 n40	9 45 9 45 9 45 9 45 9 45 9 845	0 36 0 36 0 36 0 36	18 54 18 54 18 54 18 54	1 40 1 40 1 40 1 40 1 40 1 s40	9 23 11 57 9 24 11 56 9 24 11 56 9 24 11 56 9 24 11 56 9n24 11 55	23 26 23 26 23 26 23 26 23 26	23 27 23 27 23 27 23 27	23 35 23 35 23 35 23 35	14 44 14 45 14 45 14 46	7 35 7 35 7 34 7 34 7 34 7 s34

Julian Day Number = 2411368.5, Delta T = -3.90 sec Ecliptic obliquity =  $23^{\circ}27'12$ , Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'15$ , Lahiri =  $22^{\circ}19'15$ 

00:00 UT FEBRUARY 1890

Day	Sid.t	0	)	ğ	φ	♂	4	ħ	)∤(	并	Р	n	Ω	Ç	ę,	Day
S 1	8 44 36	12≈ 8'02	28 <b>П</b> 18	7°R 5	7≈54	16M43	25 <b>궁</b> 3	1°R55	26°R43	1°R47	5°R 0	2°R34	0954	20955	17°R39	S 1
S 2	8 48 33	13° 8'53	1095 5	5≈55	9° 9	17°13	25°17	1 <b>m</b> 51	26 <b>₽</b> 43	1 <b>Ⅱ</b> 47	5 <b>I</b> 0	2934	0°51	21° 1	17935	S 2
M 3	8 52 29	14° 9'43	21°52	4°51	10°24	17°44	25°30	1°46	26°42	1°46	4°59	2°31	0°48	21° 8	17°32	M 3
T 4	8 56 26	15°10'31	3 <b>Ω</b> 43	3°53	11°40	18°14	25°44	1°42	26°42	1°46	4°59	2°27	0°44	21°15	17°28	T 4
W 5	9 0 22	16°11'19	15°38	3° 3	12°55	18°44	25°58	1°37	26°42	1°46	4°59	2°21	0°41	21°21	17°25	W 5
T 6	9 4 19	17°12'04	27°40	2°20	14°10	19°14	26°11	1°33	26°42	1°46	4°58	2°13	0°38	21°28	17°21	T 6
F 7	9 8 16	18°12'49	9 <b>m</b> /50	1°46	15°25	19°44	26°25	1°28	26°41	1°46	4°58	2° 4	0°35	21°35	17°18	F 7
S 8	9 12 12	19°13'32	22°10	1°19	16°41	20°14	26°39	1°24	26°41	1°45	4°58	1°55	0°32	21°41	17°14	S 8
S 9	9 16 9	20°14'14	4 <u>₽</u> 40	1° 1	17°56	20°43	26°52	1°19	26°40	1°45	4°58	1°47	0°28	21°48	17°11	S 9
M10	9 20 5	21°14'55	17°22	0°51	19°11	21°12	27° 6	1°14	26°40	1°45	4°58	1°40	0°25	21°55	17° 7	M10
T 11	9 24 2	22°15'35	OM 18	0°D48	20°26	21°42	27°19	1° 9	26°39	1°D45	4°57	1°35	0°22	22° 1	17° 4	T 11
W12	9 27 58	23°16'14	13°29	0°53	21°41	22°11	27°32	1° 5	26°38	1°45	4°57	1°33	0°19	22° 8	17° 1	W12
T 13	9 31 55	24°16'52	26°59	1° 4	22°57	22°40	27°46	1° 0	26°38	1°45	4°57	1°D32	0°16	22°15	16°58	T 13
F 14	9 35 51	25°17'28	10 <b>∡</b> 748	1°22	24°12	23° 8	27°59	0°55	26°37	1°45	4°57	1°33	0°13	22°21	16°55	F 14
S 15	9 39 48	26°18'04	24°58	1°45	25°27	23°37	28°12	0°50	26°36	1°46	4°57	1°R34	0° 9	22°28	16°52	S 15
S 16	9 43 45	27°18'38	9 <b>궁</b> 28	2°14	26°42	24° 5	28°26	0°45	26°35	1°46	4°57	1°34	0° 6	22°35	16°49	S 16
M17	9 47 41	28°19'11	24°15	2°47	27°57	24°33	28°39	0°40	26°34	1°46	4°D57	1°32	0° 3	22°41	16°46	M17
T 18	9 51 38	29°19'43	9≈13	3°25	29°12	25° 1	28°52	0°36	26°34	1°46	4°57	1°27	29∏59	22°48	16°44	T 18
W19	9 55 34	0 <b>∺</b> 20'13	24°15	4° 8	0 <b>∺</b> 28	25°29	29° 5	0°31	26°33	1°46	4°57	1°20	29°57	22°55	16°41	W19
T 20	9 59 31	1°20'41	9 <b>米</b> 10	4°54	1°43	25°56	29°18	0°26	26°31	1°47	4°57	1°11	29°54	23° 1	16°39	T 20
F 21	10 3 27	2°21'08	23°51	5°44	2°58	26°24	29°31	0°21	26°30	1°47	4°57	1° 1	29°50	23° 8	16°36	F 21
S 22	10 7 24	3°21'33	8 <b>Υ</b> 8	6°37	4°13	26°51	29°44	0°16	26°29	1°47	4°57	0°51	29°47	23°14	16°34	S 22
S 23	10 11 20	4°21'56	21°59	7°33	5°28	27°18	29°57	0°11	26°28	1°48	4°57	0°43	29°44	23°21	16°31	S 23
M24	10 15 17	5°22'17	5 <b>8</b> 21	8°32	6°43	27°44	0≈ 9	0° 7	26°27	1°48	4°57	0°36	29°41	23°28	16°29	M24
T 25	10 19 13	6°22'36	18°16	9°34	7°58	28°11	0°22	0° 2	26°25	1°49	4°58	0°32	29°38	23°34	16°27	T 25
W26	10 23 10	7°22'53	0 <b>Ⅱ</b> 46	10°38	9°13	28°37	0°35	29 <b>Ω</b> 57	26°24	1°49	4°58	0°31	29°34	23°41	16°25	W26
T 27	10 27 7	8°23'09	12°58	11°45	10°28	29° 3	0°47	29°52	26°23	1°50	4°58	0°D31	29°31	23°48	16°23	T 27
F 28	10 31 3	9 <b>∺</b> 23'22	24 <b>II</b> 56	12≈53	11 <b>) (</b> 43	29M29	1≈ 0	29 <b>Ω</b> 47	26 <b>₽</b> 21	1 <b>Ⅱ</b> 50	4 <b>Ⅱ</b> 58	0°R31	29∏28	23954	169921	F 28

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S 1	17 s10	23n 3 0s23	14s59 3	3n38 19s19	1s 3 15s3	1 1n22	21 s22	0 s14	12n22	1n40	9 s45	0n36	18n54 1 s 39	9n24 11s55	23n26	23n27	23n34	14n48	7 s33
S 2				3 39 19 1	1 5 15 4		21 20		12 23	1 41	9 45								7 33
M 3		23 22 1 43		3 36 18 42	1 6 15 4		21 17		12 25	1 41	9 45								7 33
T 4 W 5	16 18 16 0	21 56 2 41 19 32 3 32		3 32 18 23	1 8 15 5		21 15 21 13	0 15 0 15	-	1 41	9 45 9 44	0 36							7 32 7 32
T 6		19 32 3 32	-	3 26 18 3 3 19 17 43	1 9 16 1 10 16 1	-	21 13	0 15	-	1 41 1 41	9 44	0 36	18 54 1 39 18 54 1 39					-	7 32
F 7	15 23	12 17 4 45	-	3 10 17 22	1 12 16 2				12 30	1 41	9 44	0 36	18 54 1 39						7 31
S 8	15 4			3 0 17 1	1 13 16 3				12 34	1 41	9 44	0 36		9 26 11 53					
S 9	14 45	2 51 5	17 11 2	2 49 16 39	1 14 16 3	9 1 20	21 3	0 15	12 36	1 41	9 44	0 36	18 55 1 39	9 26 11 53	23 27	23 27	23 32	14 54	7 31
M10	14 26	2s16 4 56	17 24 2	2 38 16 16	1 15 16 4	7 1 20	21 0	0 15	12 37	1 42	9 44	0 36	18 55 1 39	9 27 11 53	23 27	23 27	23 32	14 54	7 30
T 11	14 6	7 22 4 30	17 37 2	2 26 15 54	1 17 16 5		20 58	0 16	12 39	1 42	9 43	0 36	18 55 1 39	9 27 11 52	23 27	23 27	23 32	14 55	7 30
W12	13 46	12 15 3 49		2 14 15 31			20 55	0 16		1 42	9 43	0 36							
T 13		16 39 2 55		2 2 15 7	1 19 17 1		20 53	0 16	_	1 42	9 43								7 29
F 14 S 15		20 17 1 49 22 46 0 35		1 50 14 43 1 37 14 18	1 20 17 1 1 20 17 2	-	20 50 20 48	0 16 0 16	-	1 42 1 42	9 42 9 42								7 29 7 28
S 16 M17	12 25 12 4		-	1 25 13 54 1 13 13 28	1 21 17 3	-	20 45 20 43	0 16 0 16	-	1 42 1 42	9 42 9 41	0 36			23 27 23 27				7 28 7 27
,	11 43			1 13 13 28	1 22 17 4		20 43	0 16		1 42	9 41	0 36			23 27				7 27
	-	17 16 4 3		0 49 12 37	1 23 17 5		20 37	0 16	-	1 43	9 41	0 36							7 26
T 20	11 0	12 30 4 42	18 26 (	0 38 12 11	1 24 18	1 1 16	20 35	0 17	12 56	1 43	9 40	0 36	18 55 1 38	9 29 11 50	23 27	23 27	23 29	15 2	7 26
F 21	10 39	7 4 5 2	18 25 (	0 27 11 44	1 24 18	8 1 16	20 32	0 17	12 57	1 43	9 40	0 36	18 56 1 38	9 30 11 50	23 27	23 27	23 29	15 3	7 25
S 22	10 17	1 23 5 2	18 22 (	0 16 11 17	1 25 18 1	5 1 15	20 30	0 17	12 59	1 43	9 39	0 36	18 56 1 38	9 30 11 49	23 27	23 27	23 28	15 4	7 25
S 23	9 55	4n11 4 44	18 18 (	0 6 10 50	1 25 18 2	1 1 15	20 27	0 17	13 1	1 43	9 39	0 36	18 56 1 38	9 30 11 49	23 27	23 27	23 28	15 5	7 24
M24	9 33	9 22 4 1		0s 5 10 23	1 26 18 2	-	20 24	0 17	13 3	1 43	9 39								7 24
T 25		13 59 3 25		0 14 9 55	1 26 18 3		20 22	0 17	_	1 43	9 38		18 56 1 38		23 27				7 23
W26 T 27	8 48	17 51 2 32 20 51 1 32		0 24 9 27 0 33 8 59	1 26 18 4 1 26 18 4		20 19 20 17	0 17 0 17		1 43 1 43	9 38 9 37	0 37	18 56 1 38 18 56 1 38		23 27 23 27				7 23 7 22
F 28				0 33 8 39 0s42 8s30	1 26 18 4 1 s26 18 s5		20 17 20 s14		13 8 13n10	1 43 1n43	9 37 9 s 3 6								-

Julian Day Number = 2411399.5, Delta T = -3.91 sec Ecliptic obliquity =  $23^{\circ}27'13$ , Nutation = -0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'19$ , Lahiri =  $22^{\circ}19'20$ 

MARCH 1890 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	<del>,</del>	Р	n	v	Ç	ę,	Day
S 1	10 35 0	10 <b>)</b> €23'33	6945	14≈ 4	12 <b>米</b> 58	29 <b>M</b> .54	1≈12	29°R43	26°R20	1 <b>II</b> 51	4 <b>Ⅱ</b> 58	0°R31	29Ⅲ25	2499 1	16°R19	S 1
S 2	10 38 56	11°23'42	18°32	15°17	14°13	0 <b>∡</b> 19	1°25	29 <b>Q</b> 38	26 <b>₽</b> 18	1°52	4°59	0929	29°22	24° 8	16918	S 2
M 3	10 42 53	12°23'49	$0\Omega 20$	16°31	15°28	0°44	1°37	29°33	26°17	1°52	4°59	0°25	29°19	24°14	16°16	M 3
T 4	10 46 49	13°23'54	12°14	17°47	16°43	1° 9	1°49	29°29	26°15	1°53	4°59	0°19	29°15	24°21	16°14	T 4
W 5	10 50 46	14°23'57	24°16	19° 5	17°58	1°34	2° 2	29°24	26°13	1°54	5° 0	0° 9	29°12	24°28	16°13	W 5
T 6	10 54 42	15°23'58	6 <b>m</b> 29	20°24	19°13	1°58	2°14	29°19	26°12	1°55	5° 0	29 <b>Ⅱ</b> 57	29° 9	24°34	16°12	T 6
F 7	10 58 39	16°23'57	18°54	21°45	20°27	2°22	2°26	29°15	26°10	1°55	5° 0	29°44	29° 6	24°41	16°10	F 7
S 8	11 2 36	17°23'54	1 <b>≏</b> 30	23° 8	21°42	2°45	2°38	29°10	26° 8	1°56	5° 1	29°31	29° 3	24°48	16° 9	S 8
S 9	11 632	18°23'49	14°18	24°32	22°57	3° 9	2°49	29° 6	26° 6	1°57	5° 1	29°18	28°59	24°54	16° 8	S 9
M10	11 10 29	19°23'43	27°18	25°57	24°12	3°32	3° 1	29° 2	26° 4	1°58	5° 2	29° 8	28°56	25° 1	16° 7	M10
T 11	11 14 25	20°23'35	10 <b>M</b> 29	27°24	25°27	3°54	3°13	28°57	26° 3	1°59	5° 2	29° 0	28°53	25° 8	16° 6	T 11
W12	11 18 22	21°23'25	23°51	28°52	26°41	4°17	3°25	28°53	26° 1	2° 0	5° 2	28°55	28°50	25°14	16° 6	W12
T 13	11 22 18	22°23'13	7 <b>.₹</b> 25	0 <b>∺</b> 21	27°56	4°39	3°36	28°49	25°59	2° 1	5° 3	28°52	28°47	25°21	16° 5	T 13
F 14	11 26 15	23°23'00	21°11	1°52	29°11	5° 1	3°48	28°44	25°57	2° 2	5° 3	28°52	28°44	25°28	16° 4	F 14
S 15	11 30 11	24°22'45	5 <b>ਰ</b> 11	3°23	0 <b>Υ</b> 26	5°22	3°59	28°40	25°55	2° 3	5° 4	28°52	28°40	25°34	16° 4	S 15
S 16	11 34 8	25°22'28	19°24	4°57	1°40	5°43	4°10	28°36	25°53	2° 4	5° 5	28°51	28°37	25°41	16° 3	S 16
M17	11 38 5	26°22'10	3≈49	6°31	2°55	6° 4	4°22	28°32	25°50	2° 5	5° 5	28°48	28°34	25°48	16° 3	M17
T 18	11 42 1	27°21'50	18°23	8° 7	4°10	6°24	4°33	28°28	25°48	2° 6	5° 6	28°42	28°31	25°54	16° 3	T 18
W19	11 45 58	28°21'28	3 <b>)</b> 1	9°44	5°24	6°44	4°44	28°24	25°46	2° 8	5° 6	28°34	28°28	26° 1	16° 3	W19
T 20	11 49 54	29°21'04	17°35	11°22	6°39	7° 4	4°55	28°21	25°44	2° 9	5° 7	28°23	28°25	26° 8	16°D 3	T 20
F 21	11 53 51	0 <b>Υ</b> 20'38	2 <b>Υ</b> 0	13° 2	7°54	7°23	5° 6	28°17	25°42	2°10	5° 8	28°11	28°21	26°14	16° 3	F 21
S 22	11 57 47	1°20'10	16° 7	14°42	9° 8	7°42	5°16	28°13	25°40	2°11	5° 8	27°58	28°18	26°21	16° 3	S 22
S 23	12 1 44	2°19'40	29°52	16°25	10°23	8° 0	5°27	28°10	25°37	2°13	5° 9	27°48	28°15	26°28	16° 3	S 23
M24	12 5 40	3°19'08	13 <b>8</b> 13	18° 8	11°37	8°18	5°37	28° 6	25°35	2°14	5°10	27°39	28°12	26°34	16° 4	M24
T 25	12 9 37	4°18'34	26° 9	19°53	12°52	8°36	5°48	28° 3	25°33	2°15	5°10	27°33	28° 9	26°41	16° 4	T 25
W26	12 13 34	5°17'57	8∏42	21°39	14° 6	8°53	5°58	27°59	25°30	2°17	5°11	27°30	28° 5	26°48	16° 5	W26
T 27	12 17 30	6°17'18	20°56	23°26	15°21	9°10	6° 8	27°56	25°28	2°18	5°12	27°29	28° 2	26°54	16° 6	T 27
F 28	12 21 27	7°16'37	2957	25°15	16°35	9°26	6°19	27°53	25°26	2°19	5°13	27°29	27°59	27° 1	16° 6	F 28
S 29	12 25 23	8°15'53	14°48	27° 5	17°50	9°42	6°29	27°50	25°23	2°21	5°14	27°29	27°56	27° 8	16° 7	S 29
S 30	12 29 20	9°15'08	26°36	28°56	19° 4	9°57	6°38	27°47	25°21	2°22	5°14	27°28	27°53	27°14	16° 8	S 30
M31	12 33 16	10 <b>Υ</b> 14'19	8 <b>Ω</b> 27	0 <b>Ƴ</b> 49	20 <b>Υ</b> 18	10 <b>才</b> 12	6≈48	$27\Omega44$	25 <b>≏</b> 18	2∏24	5 <b>Ⅱ</b> 15	27 <b>Ⅱ</b> 24	27 <b>II</b> 50	279521	1695 9	M31

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S 1	7 s41	23n50	0n33	17 s25	0s50	8 s 1	1 s26	18 s59	1n11	20s11	0 s18	13n11	1n43	9 s36	0n37	18n57	1 s38	9n32 11s	47 23n27	23n27	23n26	15n 9 7s21
S 2 M 3 T 4 W 5 T 6	6 55	20 22 17 17	1 34 2 31 3 22 4 5 4 36	17 12 16 57 16 41 16 23 16 4	0 58 1 6 1 13 1 20 1 27	7 32 7 3 6 34 6 5 5 35	1 26	19 10 19 16		20 6		13 15 13 16 13 18	1 43 1 43 1 43 1 43 1 43	9 35 9 35 9 34 9 34 9 33	0 37 0 37 0 37 0 37 0 37	18 57 18 58	1 38 1 38 1 38 1 38 1 37	9 32 11 9 33 11 9 33 11 9 33 11 9 34 11	47 23 27 46 23 27 46 23 27	23 27 23 27 23 27	23 25 23 25 23 24	15 11 7 20 15 11 7 20 15 12 7 19
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S 9 M10 T 11 W12 T 13 F 14 S 15		6 23 11 24 15 56 19 44 22 29	4 50 4 26 3 46 2 54 1 51 0 41 0 s33	15 0 14 36 14 10 13 44 13 16 12 46 12 16	1 44 1 50 1 54 1 58 2 2 2 6 2 9	4 5 3 35 3 5 2 34 2 4 1 33 1 3	1 24 1 23 1 23 1 22 1 21 1 21 1 20	19 43 19 48 19 53 19 58 20 3 20 8 20 12	1 5 1 5 1 4 1 3 1 2	19 51 19 48 19 45 19 43 19 40 19 38 19 35	0 19 0 19 0 19 0 19 0 19	13 28 13 29 13 31 13 32	1 43 1 43 1 43 1 43 1 43 1 43	9 31 9 30 9 30 9 29 9 28 9 27 9 27	0 37 0 37 0 37 0 37 0 37 0 37 0 37	18 59 18 59 18 59 18 59 19 0		9 35 11 9 35 11 9 35 11 9 36 11 9 36 11 9 36 11 9 37 11	45 23 27 44 23 27 44 23 27 44 23 27 44 23 27	23 27 23 27 23 27 23 27 23 27 23 27	23 22 23 22 23 21 23 21 23 20	15 16 7 16 15 17 7 15 15 17 7 15 15 18 7 14 15 19 7 13
S 16 M17 T 18 W19 T 20 F 21 S 22	1 27 1 3	22 7 18 58 14 37 9 26 3 47	1 46 2 53 3 50 4 31 4 55 5 0 4 46	11 44 11 11 10 37 10 2 9 25 8 47 8 8	2 11 2 13 2 15 2 16 2 17 2 18 2 17	0 32 0 2 0n29 1 0 1 30 2 1 2 31	1 18 1 17 1 16 1 14 1 13	20 26	0 59 0 59 0 58 0 57 0 56	19 33 19 30 19 28 19 25 19 23 19 20 19 18	0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 21	13 36 13 38 13 39 13 40 13 42	1 43 1 43 1 43 1 43 1 43 1 43	9 26 9 25 9 24 9 24 9 23 9 22 9 21	0 37 0 37 0 37 0 37 0 37 0 37 0 37	19 1 19 1 19 1 19 1 19 2	1 37 1 37 1 37 1 37 1 37 1 37 1 37	9 37 11 9 38 11 9 38 11 9 38 11 9 39 11 9 39 11 9 39 11	43 23 27 43 23 27 42 23 27 42 23 27 42 23 26	23 27 23 27 23 27 23 27 23 27	23 19 23 19 23 18 23 18 23 17	15 21 7 12 15 21 7 11 15 22 7 10 15 23 7 10 15 23 7 9
S 23 M24 T 25 W26 T 27 F 28 S 29	2 53 3 17	12 27 16 45 20 9 22 34 23 54 24 8	4 15 3 31 2 38 1 38 0 35 0n29 1 31 2 28	7 28 6 47 6 4 5 20 4 36 3 50 3 3 2 15	2 17 2 16 2 14 2 12 2 10 2 7 2 3 1 59	3 2 3 32 4 3 4 33 5 3 5 33 6 3	1 9 1 8 1 6 1 5 1 3	20 54 20 58 21 2 21 6 21 9	0 52 0 51 0 50 0 49 0 48 0 46	19 6 19 3	0 21 0 22	13 45 13 46 13 48 13 49 13 50 13 51	1 43 1 43 1 43 1 43 1 43 1 43 1 43	9 20 9 19 9 19 9 18 9 17 9 16 9 15	0 37 0 37 0 37 0 37 0 37 0 37		1 37 1 36 1 36 1 36 1 36 1 36 1 36	9 40 11 9 40 11 9 40 11 9 41 11 9 42 11 9 42 11 9 42 11	41 23 26 41 23 26 40 23 26 40 23 26 40 23 26 40 23 26 40 23 26	23 26 23 26 23 26 23 26 23 26 23 26	23 15 23 15 23 14 23 14 23 13 23 13	15 25 7 7 15 26 7 6 15 26 7 6 15 27 7 5 15 27 7 4 15 28 7 4
M31			3n19	1 s26	1 s55			21 s16				13 32 13n53	1 43 1n43			19 5 19n 5	1 s36					

Julian Day Number = 2411427.5, Delta T = -3.92 sec Ecliptic obliquity =  $23^{\circ}27'13$ , Nutation =  $-0^{\circ}00'16$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'23$ , Lahiri =  $22^{\circ}19'23$ 

APRIL 1890 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	卉	Р	ß	Ω	Ç	Ŷ,	Day
T 1	12 37 13	11 <b>Y</b> 13'29	20Ω24	2 <b>Υ</b> 44	21 <b>Y</b> 33	10 <b>∡</b> 126	6≈58	27°R41	25°R16	2Д25	5 <b>Ⅱ</b> 16	27°R19	27∐46	279528	16911	T 1
W 2	12 41 9	12°12'36	2 <b>m</b> 32	4°39	22°47	10°40	7° 7	27 <b>Ω</b> 38	25 <b>≏</b> 13	2°27	5°17	27 <b>I</b> I0	27°43	27°34	16°12	W 2
T 3	12 45 6	13°11'41	14°54	6°36	24° 1	10°53	7°17	27°35	25°11	2°29	5°18	27° 0	27°40	27°41	16°13	T 3
F 4	12 49 3	14°10'44	27°32	8°34	25°15	11° 6	7°26	27°33	25° 8	2°30	5°19	26°47	27°37	27°48	16°15	F 4
S 5	12 52 59	15° 9'45	10 <b>≏</b> 25	10°34	26°30	11°18	7°35	27°30	25° 6	2°32	5°20	26°35	27°34	27°54	16°16	S 5
S 6	12 56 56	16° 8'43	23°34	12°34	27°44	11°30	7°44	27°28	25° 3	2°33	5°21	26°23	27°31	28° 1	16°18	S 6
M 7	13 0 52	17° 7'40	6 <b>M</b> 57	14°36	28°58	11°41	7°53	27°26	25° 1	2°35	5°22	26°14	27°27	28° 8	16°19	M 7
T 8	13 4 49	18° 6'34	20°30	16°39	0812	11°52	8° 2	27°24	24°58	2°37	5°22	26° 6	27°24	28°14	16°21	T 8
W 9	13 8 45	19° 5'27	4 <b>₹</b> 14	18°43	1°26	12° 2	8°11	27°21	24°56	2°39	5°23	26° 2	27°21	28°21	16°23	W 9
T 10	13 12 42	20° 4'19	18° 5	20°48	2°40	12°11	8°19	27°19	24°53	2°40	5°24	26° 0	27°18	28°28	16°25	T 10
F 11	13 16 38	21° 3'08	2る 2	22°54	3°55	12°20	8°28	27°18	24°51	2°42	5°25	26°D 0	27°15	28°34	16°27	F 11
S 12	13 20 35	22° 1'56	16° 5	25° 0	5° 9	12°28	8°36	27°16	24°48	2°44	5°26	26°R 1	27°11	28°41	16°30	S 12
S 13	13 24 32	23° 0'42	0≈12	27° 7	6°23	12°36	8°44	27°14	24°46	2°46	5°28	26° 1	27° 8	28°48	16°32	S 13
M14	13 28 28	23°59'26	14°23	29°13	7°37	12°42	8°52	27°12	24°43	2°47	5°29	25°59	27° 5	28°54	16°34	M14
T 15	13 32 25	24°58'09	28°36	1819	8°51	12°49	9° 0	27°11	24°40	2°49	5°30	25°55	27° 2	29° 1	16°37	T 15
W16	13 36 21	25°56'50	12 <b>) (</b> 48	3°25	10° 5	12°54	9° 8	27° 9	24°38	2°51	5°31	25°48	26°59	29° 8	16°39	W16
T 17	13 40 18	26°55'29	26°55	5°30	11°19	12°59	9°16	27° 8	24°35	2°53	5°32	25°40	26°56	29°14	16°42	T 17
F 18	13 44 14	27°54'06	10 <b>Y</b> 53	7°34	12°33	13° 3	9°23	27° 7	24°33	2°55	5°33	25°30	26°52	29°21	16°45	F 18
S 19	13 48 11	28°52'42	24°38	9°37	13°46	13° 7	9°31	27° 6	24°30	2°57	5°34	25°21	26°49	29°28	16°47	S 19
S 20	13 52 7	29°51'16	8 <b>8</b> 6	11°38	15° 0	13°10	9°38	27° 5	24°28	2°59	5°35	25°12	26°46	29°34	16°50	S 20
M21	13 56 4	0 <b>8</b> 49'47	21°14	13°36	16°14	13°12	9°45	27° 4	24°25	3° 1	5°36	25° 6	26°43	29°41	16°53	M21
T 22	14 0 0	1°48'17	4 <b>II</b> 2	15°33	17°28	13°13	9°52	27° 3	24°22	3° 3	5°37	25° 1	26°40	29°48	16°56	T 22
W23	14 3 57	2°46'45	16°32	17°27	18°42	13°R14	9°58	27° 3	24°20	3° 5	5°39	24°59	26°36	29°54	16°59	W23
T 24	14 7 54	3°45'11	28°45	19°17	19°55	13°14	10° 5	27° 2	24°17	3° 7	5°40	24°D59	26°33	0 <b>Ω</b> 1	17° 3	T 24
F 25	14 11 50	4°43'34	109546	21° 5	21° 9	13°13	10°12	27° 2	24°15	3° 9	5°41	25° 0	26°30	0° 8	17° 6	F 25
S 26	14 15 47	5°41'56	22°39	22°49	22°23	13°11	10°18	27° 1	24°12	3°11	5°42	25° 1	26°27	0°14	17° 9	S 26
S 27	14 19 43	6°40'15	4 <b>Ω</b> 28	24°30	23°37	13° 9	10°24	27° 1	24°10	3°13	5°43	25°R 2	26°24	0°21	17°13	S 27
M28	14 23 40	7°38'33	16°20	26° 6	24°50	13° 6	10°30	27° 1	24° 7	3°15	5°45	25° 1	26°21	0°28	17°16	M28
T 29	14 27 36	8°36'48	28°19	27°39	26° 4	13° 2	10°36	27°D 1	24° 5	3°17	5°46	24°59	26°17	0°34	17°20	T 29
W30	14 31 33	9 <b>8</b> 35'01	10 <b>m</b> 31	29 <b>8</b> 8	27817	12 <b>×</b> 758	10≈41	27 <b>Ω</b> 1	24 <b>♀</b> 2	3 <b>Ⅱ</b> 19	5 <b>Ⅱ</b> 47	24 <b>Ⅱ</b> 55	26Ⅱ14	0 <b>Ω</b> 41	179524	W30

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T 1	4n27	18n31	4n 2	0s36	1 s50	7n32	0s56	21 s20	0n42	18 s 5 4	0 s22	13n54	1n43	9 s12	0n37	19n 5	1 s36	9n43 11s3	9 23n26	23n26	23n11	15n29	7 s 2
W 2	4 50	14 50	4 34	0n15	1 44	8 2		21 23	0 41	18 52	0 22		1 43	9 12	0 37	19 6	1 36	9 43 11 3					7 1
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M 7	6 44	10 13	3 50	4 42	1 9	10 25	0 44	21 39	0 33	18 41	0 23		1 42	9 7	0 37	19 7	1 36	9 45 11 3	8 23 24	23 26	23 7	15 32	6 58
T 8	7 6	15 3	2 57	5 37	1 1	10 54	0 42	21 42	0 32	18 39	0 23	13 59	1 42	9 6	0 37	19 8	1 36	9 46 11 3	7 23 24	23 26	23 7	15 33	6 57
W 9	7 29	19 9	1 53	6 32	0 52	11 21		21 45	0 30	18 37	0 23	14 0	1 42	9 5	0 37	19 8	1 36	9 46 11 3				15 33	6 57
T 10		-	0 42	7 28	0 42			21 48	0 28		0 24		1 42	9 4	0 37		1 36	9 46 11 3				15 33	6 56
F 11	8 13		0 s32	8 24				21 51	0 27		0 24		1 42	9 3			1 36	9 47 11 3				15 34	6 56
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S 13	8 57	22 55	2 52	10 16	0 12	13 10	0 31	21 57	0 23	18 28	0 24	14 2	1 42	9 1	0 37	19 10	1 36	9 48 11 3	6 23 24	23 25	23 4	15 35	6 54
M14	9 19	20 10	3 48	11 11	0 2	13 36	0 29	21 59	0 21	18 27	0 24	14 3	1 42	9 0	0 37	19 10	1 36	9 48 11 3	6 23 24	23 25	23 3	15 35	6 54
T 15	9 40	16 12	4 31	12 5	0n 9	14 2	0 27	22 2	0 19	18 25	0 25	14 3	1 42	8 59	0 37	19 10	1 35	9 48 11 3	6 23 23	23 25	23 2	15 35	6 53
W16	10 2	11 19	4 57	12 59	0 20	14 28	0 24	22 5	0 17	18 23	0 25	14 3	1 42	8 59	0 37	19 11	1 35	9 49 11 3	6 23 23	23 25	23 2	15 36	6 52
T 17	10 23	5 53	5 4	13 51	0 31	14 53	0 22	22 7	0 15	18 21	0 25		1 42	8 58	0 37	19 11	1 35	9 49 11 3	6 23 23	23 25	23 1	15 36	6 52
F 18	10 44	0 12	4 54	14 43	0 42	15 18		22 10	0 13	18 19	0 25		1 42	8 57	0 37	19 12	1 35	9 49 11 3				15 36	6 51
S 19	11 5	5n25	4 26	15 32	0 53	15 43	0 17	22 12	0 11	18 17	0 25	14 4	1 42	8 56	0 37	19 12	1 35	9 50 11 3	5 23 22	23 25	23 0	15 36	6 51
S 20	11 26	10 41	3 44	16 20	1 4	16 7	0 14	22 15	0 9	18 16	0 25	14 5	1 41	8 55	0 37	19 12	1 35	9 50 11 3	5 23 22	23 25	22 59	15 37	6 50
M21	11 46	15 20	2 51	17 7	1 14	16 31		22 17	0 6	18 14	0 26	14 5	1 41	8 54	0 37	19 13	1 35	9 50 11 3	5 23 22	23 25	22 58	15 37	6 49
T 22	12 7	19 10	1 50	17 51	1 24	16 54	0 10	22 20	0 4	18 12	0 26	14 5	1 41	8 53	0 37	19 13	1 35	9 51 11 3					6 49
W23	12 27	22 1	0 45	18 33	1 34		0 7		0 2	-	0 26		1 41	8 52	0 37	19 14	1 35	9 51 11 3					6 48
T 24	12 47	23 47		19 13	1 43	17 40	0 5	-	0 s 1	18 9	0 26	14 5	1 41	8 51	0 37	-	1 35	9 52 11 3					6 48
F 25		-		19 50	1 51	18 2	0 2	-	0 3		0 26	-	1 41	8 50			1 35	9 52 11 3					6 47
S 26	13 26	23 55	2 24	20 25	1 59	18 23	0n 1	22 29	0 5	18 6	0 27	14 5	1 41	8 49	0 37	19 15	1 35	9 52 11 3	4 23 22	23 24	22 55	15 38	6 46
S 27	13 45	22 20	3 17	20 57	2 7	18 44	0 3	22 31	0 8	18 4	0 27	14 5	1 41	8 48	0 37	19 15	1 35	9 53 11 3	4 23 22	23 24	22 54	15 38	6 46
M28	14 4	19 47	4 2	21 27	2 13	19 5	0 6	22 34	0 11	18 3	0 27	14 5	1 41	8 47	0 37	19 16	1 35	9 53 11 3	4 23 22	23 24	22 53	15 38	6 45
T 29	14 23	16 23	4 36	21 54	2 19	19 25	0 8	22 36	0 13	18 2	0 27	14 5	1 41	8 47	0 37	19 16	1 35	9 53 11 3	4 23 22	23 24	22 52	15 38	6 45
W30	14n41	12n15	4n59	22n19	2n24	19n44	0n11	$22\mathrm{s}38$	0s16	18s 0	0 s27	14n 5	1n40	8 s46	0n37	19n17	1 s35	9n54 11s3	3 23n21	23n24	22n52	15n38	6 s44

Julian Day Number = 2411458.5, Delta T = -3.94 sec Ecliptic obliquity =  $23^{\circ}27'14$ , Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'27$ , Lahiri =  $22^{\circ}19'28$ 

MAY 1890 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ب(	¥	Р	₽.	v	Ç	ķ0	Day
T 1	14 35 29	10833'12	22 <b>m</b> 57	0Д33	28831	12°R52	10≈47	27 <b>Ω</b> 1	24°R 0	3 <b>Ц</b> 21	5 <b>Ⅱ</b> 48	24°R49	26∐11	0Ω48	179528	T 1
F 2	14 39 26	11°31'22	5 <b>≏</b> 43	1°53	29°45	12 <b>×</b> 746	10°52	27° 1	23 <u><b>2</b></u> 58	3°23	5°50	24∏42	26° 8	0°54	17°31	F 2
S 3	14 43 23	12°29'29	18°49	3°10	0耳58	12°40	10°57	27° 2	23°55	3°25	5°51	24°35	26° 5	1° 1	17°35	S 3
S 4	14 47 19	13°27'35	2 <b>M</b> _14	4°22	2°12	12°32	11° 2	27° 2	23°53	3°27	5°52	24°28	26° 2	1° 8	17°39	S 4
M 5	14 51 16	14°25'39	15°57	5°29	3°25	12°24	11° 7	27° 3	23°50	3°30	5°53	24°23	25°58	1°14	17°44	M 5
T 6	14 55 12	15°23'41	29°56	6°32	4°38	12°15	11°12	27° 4	23°48	3°32	5°55	24°19	25°55	1°21	17°48	T 6
W 7	14 59 9	16°21'42	14 <b>×7</b> 5	7°30	5°52	12° 5	11°16	27° 5	23°46	3°34	5°56	24°17	25°52	1°28	17°52	W 7
T 8	15 3 5	17°19'41	28°21	8°24	7° 5	11°54	11°21	27° 5	23°43	3°36	5°57	24°D16	25°49	1°34	17°56	T 8
F 9	15 7 2	18°17'39	12340	9°13	8°18	11°43	11°25	27° 6	23°41	3°38	5°59	24°17	25°46	1°41	18° 1	F 9
S 10	15 10 58	19°15'36	26°58	9°57	9°32	11°31	11°29	27° 8	23°39	3°40	6° 0	24°19	25°42	1°48	18° 5	S 10
S 11	15 14 55	20°13'31	11≈13	10°36	10°45	11°18	11°33	27° 9	23°37	3°43	6° 1	24°20	25°39	1°54	18°10	S 11
M12	15 18 52	21°11'25	25°23	11°11	11°58	11° 5	11°36	27°10	23°35	3°45	6° 3	24°R20	25°36	2° 1	18°14	M12
T 13	15 22 48	22° 9'18	9 <b>)</b> 25	11°40	13°11	10°51	11°40	27°12	23°32	3°47	6° 4	24°19	25°33	2° 8	18°19	T 13
W14	15 26 45	23° 7'10	23°18	12° 5	14°25	10°36	11°43	27°13	23°30	3°49	6° 5	24°16	25°30	2°14	18°24	W14
T 15	15 30 41	24° 5'00	7Υ 2	12°25	15°38	10°21	11°46	27°15	23°28	3°51	6° 7	24°13	25°27	2°21	18°28	T 15
F 16	15 34 38	25° 2'49	20°33	12°39	16°51	10° 5	11°49	27°17	23°26	3°54	6° 8	24° 8	25°23	2°28	18°33	F 16
S 17	15 38 34	26° 0'37	3 <b>8</b> 52	12°49	18° 4	9°48	11°52	27°18	23°24	3°56	6° 9	24° 4	25°20	2°34	18°38	S 17
S 18	15 42 31	26°58'24	16°56	12°54	19°17	9°31	11°54	27°20	23°22	3°58	6°11	24° 0	25°17	2°41	18°43	S 18
M19	15 46 27	27°56'09	29°45	12°R54	20°30	9°14	11°57	27°23	23°20	4° 0	6°12	23°57	25°14	2°48	18°48	M19
T 20	15 50 24	28°53'53	12 <b>I</b> I19	12°50	21°43	8°56	11°59	27°25	23°18	4° 3	6°13	23°55	25°11	2°54	18°53	T 20
W21	15 54 21	29°51'36	24°38	12°41	22°56	8°37	12° 1	27°27	23°16	4° 5	6°15	23°D55	25° 8	3° 1	18°58	W21
T 22	15 58 17	0 <b>Ⅱ</b> 49'17	69346	12°27	24° 9	8°18	12° 2	27°29	23°14	4° 7	6°16	23°55	25° 4	3° 8	19° 4	T 22
F 23	16 2 14	1°46'57	18°44	12°10	25°22	7°59	12° 4	27°32	23°13	4° 9	6°17	23°56	25° 1	3°14	19° 9	F 23
S 24	16 6 10	2°44'35	0 <b>Ω</b> 36	11°49	26°35	7°40	12° 5	27°34	23°11	4°12	6°19	23°58	24°58	3°21	19°14	S 24
S 25	16 10 7	3°42'12	12°26	11°25	27°48	7°20	12° 7	27°37	23° 9	4°14	6°20	24° 0	24°55	3°28	19°20	S 25
M26	16 14 3	4°39'48	24°18	10°58	29° 1	7° 0	12° 8	27°40	23° 7	4°16	6°21	24° 1	24°52	3°34	19°25	M26
T 27	16 18 0	5°37'22	6mp17	10°28	09913	6°39	12° 9	27°43	23° 6	4°18	6°23	24°R 1	24°48	3°41	19°31	T 27
W28	16 21 56	6°34'55	18°28	9°57	1°26	6°19	12° 9	27°46	23° 4	4°21	6°24	24° 0	24°45	3°48	19°36	W28
T 29	16 25 53	7°32'26	0₽55	9°24	2°39	5°58	12°10	27°49	23° 2	4°23	6°26	23°59	24°42	3°54	19°42	T 29
F 30	16 29 50	8°29'56	13°42	8°51	3°52	5°38	12°10	27°52	23° 1	4°25	6°27	23°58	24°39	4° 1	19°47	F 30
S 31	16 33 46	9∏27'24	26 <b>₽</b> 52	8 <b>Ⅱ</b> 17	59 4	5 <b>∡</b> 17	12°R10	27 <b>£</b> 55	22 <b>£</b> 59	4 <b>Ⅱ</b> 27	6Ⅱ28	23П56	24Ⅲ36	4 <b>N</b> 8	19953	S 31

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T 1 F 2	15n 0 15 18	7n31 5	in 9 22n4 3 23			0n13 22 s4		17 s 5 9 17 5 8	0 s28 0 28		1n40 1 40	8 s45 8 44	0n37 0 37					23n24 23 24			6 s44 6 43
S 3	15 36		42 23 1			0 10 22 4		17 56	0 28	-	1 40	8 43						23 24			6 42
S 4	15 53		5 23 3			0 21 22	-	17 55	0 28		1 40	8 42						23 24			6 42
M 5	-	13 33 3 18 3 2	13 23 4 8 23 5			0 24 22 4 0 26 22 4		17 54 17 53	0 28 0 29		1 40 1 40	8 41 8 41	0 37					23 24 23 23			6 41
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S 11 M12	17 49 18 4		48 24 1 34 24 1		-	0 39 22 3		17 48 17 47	0 30		1 39 1 39	8 36 8 36		19 21 1 3 19 22 1 3				23 23 23 23			6 38 6 38
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W14	18 34					0 46 23	0 0 58		0 30	-	1 39	8 34	0 36					23 23			6 37
T 15 F 16	18 48 19 2	1 52 5 3n42 4	5 24 40 23 5			0 49 23 0 51 23	1 1 1 2 1 4	-,	0 30 0 31		1 39 1 39	8 33 8 33	0 36					23 23 23 22			6 36
S 17	19 16		1 23 4			0 51 23		17 43	0 31		1 39	8 32		19 23 1 3				23 22			6 35
S 18	19 30	13 53 3	9 23 2	1 8	23 57	0 56 23	4 1 11	17 44	0 31	13 57	1 39	8 31	0 36	19 24 1 3	5 9 59	11 31	23 19	23 22	22 37	15 37	6 35
M19			-			0 58 23		17 43	0 31		1 38	8 30	0 36					23 22			6 35
T 20 W21		21 14 1 23 25 0	3 23 n 4 22 4			1 0 23 1 3 23	5 1 18	17 43 17 42	0 31 0 32		1 38 1 38	8 30 8 29	0 36					23 22 23 22			6 34
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F 23	20 32	-	-		24 29	1 7 23	6 1 28		0 32		1 38	8 28	0 36					23 22			6 33
S 24	20 43	23 6 3	9 21 4	0 25	24 34	1 9 23	6 1 31	17 42	0 32	13 51	1 38	8 27	0 36	19 27 1 3	5 10 1	11 31	23 19	23 21	22 32	15 36	6 32
S 25	20 54		57 21 2			1 11 23		17 42		13 50	1 38	8 27						23 21			6 32
M26 T 27				-		1 13 23 1 15 23	6 1 37 5 1 41		0 33 0 33		1 38 1 38	8 26 8 25		19 28 1 3 19 28 1 3				23 21 23 21			6 32 6 31
	21 25		14 20 2			1 17 23	5 1 44			13 47	1 38	8 25						23 21			6 31
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	21 44		57 19 4		-	1 21 23		17 42	0 34		1 37	8 24	0 36		-	-		23 21	-		6 30
331	21n53	6s14 4	n25 19n1	2 S 2 S	24n44	1n23 23 s	<i>3</i> 1 S 5 4	17 s42	US34	13n44	1n37	8 s23	Un36	19n30 1 s3	5 10n 3	11831	23n19	23n21	22n25	15n33	6 s 3 0

Julian Day Number = 2411488.5, Delta T = -3.95 sec Ecliptic obliquity =  $23^{\circ}27'14$ , Nutation = -0°00'18, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'31$ , Lahiri =  $22^{\circ}19'32$ 

JUNE 1890 00:00 UT

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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Day	Sid.t	0	D	Ϋ́	φ	ď	4	ħ	)∤(	并	Р	n	v	Ç	ę,	Day
T 3	S 1	16 37 43	10 <b>Ⅲ</b> 24'52	10M25		69917	4°R57	12°R10		22°R58	4 <b>Ⅱ</b> 30	6Д30	23°R54	24∏33	4 <b>Ω</b> 14	199559	S 1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	M 2	16 41 39	11°22'18	24°21	7 <b>Ⅱ</b> 11	7°29	4 <b>₹</b> 36	12≈10			4°32		23 <b>Ⅱ</b> 52	24°29		20° 5	M 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T 3	16 45 36	12°19'43	8 <b>₮</b> 38	6°41	8°42	4°16	12° 9	28° 5	22°55	4°34	6°32	23°51	24°26	4°28	20°10	T 3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	W 4	16 49 32	13°17'08	-	6°12	9°55	3°56	12° 8	28° 9	22°54	4°36	6°34	23°D51	24°23	4°34	20°16	W 4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T 5	16 53 29	14°14'32	7 <b>云</b> 52	5°45	11° 7	3°36	12° 8	28°12	22°52	4°39	6°35	23°51	24°20	4°41	20°22	T 5
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	F 6	16 57 26	15°11'54	22°37	5°22	12°19	3°16	12° 7	28°16	22°51	4°41	6°36	23°52	24°17	4°48	20°28	F 6
M 9	S 7	17 1 22	16° 9'17	7 <b>≈</b> 18	5° 2	13°32	2°56	12° 5	28°20	22°50	4°43	6°38	23°53	24°14	4°55	20°34	S 7
T10					-						-					20°40	S 8
Wil	-	-, ,					-									20°46	M 9
T12 17 21 5 20°55'59 17°26 4°21 19°33 1°25 11°56 28°40 22°45 4°54 6°45 23°53 23°58 5°28 21° F13 17 25 1 21°53'18 0837 4°26 20°45 1° 8 11°54 28°45 22°44 4°56 6°46 23°53 23°54 5°35 21°18 11 17 28 58 22°50'37 13°34 4°36 21°58 0°52 11°51 28°49 22°43 4°58 6°47 23°53 23°51 5°41 21°18 11 17 28 58 22°50'37 13°34 4°36 21°58 0°52 11°51 28°49 22°43 4°58 6°47 23°53 23°51 5°41 21°18 11 17 28 58 22°50'37 13°34 4°36 21°58 0°52 11°51 28°49 22°43 4°58 6°47 23°53 23°51 5°41 21°18 11 17 28 58 22°51 23°47'56 26°16 4°50 23°10 0°36 11°49 28°54 22°42 5° 0 6°48 23°D53 23°48 5°48 21°28 11°18 11 18°40 11 1					-	-, ,		-								20°53	T 10
F 13						-				-	-				-	20°59	W11
S 14       17 28 58       22°50'37       13°34       4°36       21°58       0°52       11°51       28°49       22°43       4°58       6°47       23°53       23°51       5°41       21°18         S 15       17 32 55       23°47'56       26°16       4°50       23°10       0°36       11°49       28°54       22°42       5° 0       6°48       23°D53       23°48       5°48       21°2         M16       17 36 51       24°45'14       8Ш45       5° 9       24°22       0°21       11°46       28°58       22°41       5° 3       6°50       23°53       23°45       5°55       21°3         T17       17 40 48       25°42'32       21° 3       5°32       25°34       0° 6       11°42       29° 3       22°40       5° 5       6°51       23°853       23°42       6° 1       21°3         W18       17 44 44       26°39'49       3©11       6° 0       26°46       29M52       11°39       29° 8       22°40       5° 7       6°52       23°53       23°39       6° 8       21°2         F 20       17 52 37       28°34'21       27° 5       7° 8       29°10       29°27       11°32       29°17       22°39       5°11       6°55	1					-,	-				-					21° 5	T 12
S 15	_			_	_						4°56	6°46				21°11	F 13
Mi6	S 14	17 28 58	22°50'37	13°34	4°36	21°58	0°52	11°51	28°49	22°43	4°58	6°47	23°53	23°51	5°41	21°18	S 14
T17 17 40 48 25°42'32 21° 3 5°32 25°34 0° 6 11°42 29° 3 22°40 5° 5 6°51 23°R53 23°42 6° 1 21°3 W18 17 44 44 26°39'49 3©11 6° 0 26°46 29M.52 11°39 29° 8 22°40 5° 7 6°52 23°53 23°39 6° 8 21°4 T19 17 48 41 27°37'05 15°11 6°32 27°58 29°39 11°36 29°12 22°39 5° 9 6°54 23°53 23°35 6°15 21°5 F20 17 52 37 28°34'21 27° 5 7° 8 29°10 29°27 11°32 29°17 22°39 5° 11 6°55 23°52 23°32 6°21 21°5 S21 17 56 34 29°31'37 8\$\Omega\$55 7°49 0\$\Omega\$22 29°15 11°28 29°22 22°38 5°13 6°56 23°52 23°29 6°28 22° S22 18 0 30 0\$\Omega\$28'52 20°44 8°35 1°33 29° 5 11°24 29°27 22°38 5°15 6°58 23°51 23°26 6°35 22° M23 18 4 27 1°26'06 2\$\Omega\$37 9°24 2°45 28°55 11°20 29°32 22°37 5°17 6°59 23°50 23°23 6°41 22°17 12°18 8 24 2°23'20 14°35 10°18 3°57 28°45 11°16 29°38 22°37 5°19 7° 0 23°49 23°20 6°48 22° W25 18 12 20 3°20'33 26°45 11°15 5° 9 28°37 11°11 29°43 22°36 5°21 7° 1 23°49 23°16 6°55 22° T26 18 16 17 4°17'46 9\$\Omega\$9 12°17 6°20 28°30 11° 7 29°48 22°36 5°23 7° 3 23°D49 23°10 7° 8 22°2 5°28 18 24 10 6°12'10 4\$\Omega\$15 14°32 8°43 28°17 10°57 29°59 22°36 5°27 7° 5 23°50 23° 7 7°15 22°4	S 15	17 32 55	23°47'56	26°16	4°50	23°10	0°36	11°49	28°54	22°42	5° 0	6°48	23°D53	23°48	5°48	21°24	S 15
W18   17 44 44   26°3949   3©11   6° 0   26°46   29¶L52   11°39   29° 8   22°40   5° 7   6°52   23°53   23°39   6° 8   21°4   17 19   17 48 41   27°37'05   15°11   6°32   27°58   29°39   11°36   29°12   22°39   5° 9   6°54   23°53   23°35   6°15   21°55   21°55   21°55   23°54   22°55   23°52   23°32   6°21   21°55   23°54   22°31'37   8055   7°49   0022   29°15   11°28   29°22   22°38   5°13   6°56   23°52   23°29   6°28   22°   22°   22°   22°   23°   2	M16	17 36 51	24°45'14	8 <b>Ⅱ</b> 45	5° 9	24°22	0°21	11°46	28°58	22°41	5° 3	6°50	23°53	23°45	5°55	21°30	M16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T 17	17 40 48	25°42'32	21° 3	5°32	25°34	0° 6	11°42	29° 3	22°40	5° 5	6°51	23°R53	23°42	6° 1	21°37	T 17
F 20	W18	17 44 44	26°39'49	39911	6° 0	26°46	29M52	11°39	29° 8	22°40	5° 7	6°52	23°53	23°39	6° 8	21°43	W18
S 21       17 56 34       29°31'37       8\$\textstyle{Q}55\$       7°49       0\$\textstyle{Q}22\$       29°15       11°28       29°22       22°38       5°13       6°56       23°52       23°29       6°28       22°         S 22       18 0 30       0\$\textstyle{Q}28'52\$       20°44       8°35       1°33       29° 5       11°24       29°27       22°38       5°15       6°58       23°51       23°26       6°35       22°         M23       18 4 27       1°26'06       2\$\textstyle{q}37\$       9°24       2°45       28°55       11°20       29°32       22°37       5°17       6°59       23°50       23°23       6°41       22°1         T 24       18 8 24       2°23'20       14°35       10°18       3°57       28°45       11°16       29°38       22°37       5°19       7° 0       23°49       23°20       6°48       22°2         W25       18 12 20       3°20'33       26°45       11°15       5° 9       28°37       11°11       29°43       22°36       5°21       7° 1       23°49       23°16       6°55       22°2         T 26       18 16 17       4°17'46       9       9       12°17       6°20       28°30       11° 7       29°48	T 19	17 48 41	27°37'05			27°58	29°39	11°36	29°12	22°39	5° 9	6°54	23°53	23°35	6°15	21°50	T 19
S 22       18 0 30       0 228'52       20°44       8°35       1°33       29° 5       11°24       29°27       22°38       5°15       6°58       23°51       23°26       6°35       22°         M23       18 4 27       1°26'06       2 10 37       9°24       2°45       28°55       11°20       29°32       22°37       5°17       6°59       23°50       23°23       6°41       22°1         T 24       18 8 24       2°23'20       14°35       10°18       3°57       28°45       11°16       29°38       22°37       5°19       7° 0       23°49       23°20       6°48       22°2         W25       18 12 20       3°20'33       26°45       11°15       5° 9       28°37       11°11       29°43       22°36       5°21       7° 1       23°49       23°16       6°55       22°2         T 26       18 16 17       4°17'46       9 9       9       12°17       6°20       28°30       11° 7       29°48       22°36       5°23       7° 3       23°49       23°13       7° 1       22°3         F 27       18 20 13       5°14'58       21°53       13°23       7°32       28°23       11° 2       29°53       22°36       5°25       7°	F 20	17 52 37	28°34'21	27° 5	7° 8	29°10	29°27	11°32	29°17	22°39	5°11	6°55	23°52	23°32	6°21	21°56	F 20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	S 21	17 56 34	29°31'37	8 <b>Ω</b> 55	7°49	$0\Omega 22$	29°15	11°28	29°22	22°38	5°13	6°56	23°52	23°29	6°28	22° 3	S 21
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F 27   18 20 13   5°14′58   21°53   13°23   7°32   28°23   11° 2   29°53   22°36   5°25   7° 4   23°49   23°10   7° 8   22°28   22°10   23°10		-			-						-	, -				22°29	W25
S 28     18 24 10     6°12'10     4m.59     14°32     8°43     28°17     10°57     29°59     22°36     5°27     7° 5     23°50     23° 7     7°15     22°4								,							, -	22°36	T 26
													,	-		22°42	F 27
S 29 18 28 6 7° 9'21 18°31 15°46 9°55 28°12 10°52 0 m 4 22°36 5°29 7° 6 23°51 23° 4 7°21 22°4	S 28	18 24 10	6°12'10	4 <b>M</b> 59	14°32	8°43	28°17	10°57	29°59	22°36	5°27	7° 5	23°50	23° 7	7°15	22°49	S 28
" =   -   -   -	S 29	18 28 6	7° 9'21	18°31	15°46	9°55	28°12	10°52	0 Mp 4	22°36	5°29	7° 6	23°51	23° 4	7°21	22°56	S 29
M30   18 32 3   85 6'32   2₹29   17Ⅲ 3   11Ω 6   28Ⅲ 8   10≈46   0№10   22至36   5Ⅲ31   7Ⅲ 7   23Ⅲ52   23Ⅲ 0   7Ω28   235	M30	18 32 3	89 6'32	2 <b>,7</b> 29	17 <b>II</b> 3	11 <b>0</b> 6	28 <b>M</b> 8	10≈46	0 <b>m</b> 10	22 <b>≏</b> 36	5 <b>Ⅱ</b> 31	7 <b>Π</b> 7	23 <b>II</b> 52	23 <b>II</b> 0	$7\Omega_{28}$	2399 2	M30

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M 2	22 9	16 21				24 41	1 26			17 43	0 34	_	1 37	8 22		19 31	1 35					22 23		6 29
T 3	22 17	20 23	1 23	18 21	3 8	24 38	1 28	23 1	2 3	17 43	0 35	13 40	1 37	8 22	0 36	19 31	1 35	10 4	11 31	23 19	23 20	22 22	15 32	6 29
W 4	22 24	-	0 4	18 4	3 20	-			2 6		0 35		1 37	8 21	0 36	19 31	1 35					22 21		6 28
T 5		24 30	-	17 49	3 31			22 59	2 9		0 35		1 37	8 21	0 36		1 35					22 20		6 28
F 6	22 38			17 35	3 41					17 44	0 35		1 37	8 20			1 35					22 19		6 28
S 7	22 44	21 58	3 38	17 23	3 50	24 19	1 34	22 57	2 14	17 45	0 35	13 34	1 37	8 20	0 36	19 33	1 35	10 4	11 31	23 19	23 20	22 18	15 30	6 27
S 8	22 50	18 29	4 29	17 13	3 57	24 13	1 35	22 56	2 17	17 45	0 36	13 33	1 36	8 19	0 36	19 33	1 35	10 5	11 31	23 19	23 20	22 17	15 29	6 27
M 9	22 55	13 56	5 2	17 5	4 3	24 6				17 46		13 31	1 36	8 19	0 36	19 33	1 35	10 5	11 31	23 19	23 19	22 16	15 28	6 27
T 10	23 0	8 44				23 58		22 54		17 47		13 30	1 36	8 19		19 34						22 15		6 26
W11	23 4	3 12	5 12	16 54	4 12	23 50		22 53		17 48		13 28	1 36	8 18	0 36	19 34	1 35	10 5	11 31	23 19	23 19	22 14	15 27	6 26
	23 9	2n22	-			23 41		22 52		17 48			1 36	8 18		19 34	1 35					22 13		6 26
1	23 12	7 43	4 14	16 52		23 31				17 49			1 36	8 18	0 36	19 35	1 35					22 12		6 26
S 14	23 16	12 39	3 26	16 54	4 15	23 21	1 42	22 50	2 32	17 50	0 37	13 23	1 36	8 17	0 36	19 35	1 35	10 6	11 31	23 19	23 19	22 11	15 25	6 25
S 15	23 18	16 56	2 27	16 57	4 13	23 10	1 43	22 48	2 35	17 51	0 37	13 22	1 36	8 17	0 35	19 36	1 35	10 6	11 31	23 19	23 19	22 10	15 24	6 25
M16	23 21	20 24	1 23	17 3	4 11	22 58	1 44	22 47	2 37	17 52	0 38	13 20	1 36	8 17	0 35	19 36	1 35	10 6	11 31	23 19	23 18	22 9	15 24	6 25
T 17	23 23	22 53		17 10	4 8			22 46		17 53	0 38		1 36	8 17	0 35	19 36	1 35			23 19			15 23	6 25
	23 25	-		17 19	4 4	-		22 45		17 55			1 36	8 16		19 37	1 35			23 19			15 22	6 24
1	23 26					22 19		22 45		17 56		13 15	1 36	8 16		19 37	1 35			23 19			15 22	6 24
	23 27			17 42				22 44		17 57		13 13	1 35	8 16		19 37				23 19			15 21	6 24
S 21	23 27	21 39	3 45	17 55	3 46	21 50	1 47	22 43	2 47	17 58	0 39	13 11	1 35	8 16	0 35	19 38	1 35	10 7	11 31	23 19	23 18	22 4	15 20	6 24
S 22	23 27	18 47	4 26	18 9	3 38	21 34	1 47	22 42	2 49	18 0	0 39	13 9	1 35	8 16	0 35	19 38	1 35	10 7	11 31	23 19	23 17	22 3	15 19	6 24
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T 24	23 26	10 53	5 13	18 41	3 21		-	22 41	2 52		0 39		1 35	8 16		19 39	1 35		_	23 19			15 17	6 23
W25	23 25	6 8		18 59		20 44		22 41	2 53		0 40	_	1 35	8 15			1 35					22 0		6 23
T 26	23 23	1 3	-			20 27		22 41	2 55				1 35	8 15			1 35					21 59		6 23
F 27	23 21	4s12	-	19 35	2 51			22 40	2 56				1 35	8 15		19 40	1 35					21 57		6 23
S 28	23 19	9 26	3 59	19 54	2 40	19 50	1 48	22 40	2 58	18 8	0 40	12 58	1 35	8 15	0 35	19 40	1 35	10 8	11 32	23 19	23 16	21 56	15 14	6 23
S 29	23 16	14 24	3 3	20 13	2 29	19 30	1 48	22 41	2 59	18 10	0 40	12 56	1 35	8 15	0 35	19 40	1 35	10 8	11 32	23 19	23 16	21 55	15 13	6 22
M30	23n12	18 s47	1n56	20n33	2s17	19n10	1n48	22 s41	3 s 0	18s12	0 s41	12n54	1n35	8 s 1 5	0n35	19n41	1 s35	10n 8	11 s32	23n19	23n16	21n54	15n12	$6\mathrm{s}22$

 $\label{eq:Julian Day Number = 2411519.5, Delta T = -3.96 sec} \\ Ecliptic obliquity = 23°27'13, Nutation = -0°00'18, out-of-bounds declination in red \\ Ayanamsha: Fagan/Bradley = 23°12'36, Lahiri = 22°19'36 \\$ 

JULY 1890 00:00 UT

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T 1	18 35 59	99 3'43	16 <b>₹</b> 53	18 <b>Ⅱ</b> 24	12 <b>Q</b> 18	28°R 4	10°R41	0 <b>m</b> 16	22°D36	5 <b>Ⅱ</b> 33	7П 9	23°R53	22 <b>II</b> 57	7 <b>Ω</b> 35	2399 9	T 1
W 2	18 39 56	10° 0'54	1 <b>云</b> 37	19°49	13°29	28M 2	10≈36	0°21	22 <b>॒</b> 36	5°35	7°10	23 <b>II</b> 53	22°54	7°42	23°16	W 2
T 3	18 43 53	10°58'05	16°37	21°17	14°40	28° 0	10°30	0°27	22°36	5°37	7°11	23°52	22°51	7°48	23°23	T 3
F 4	18 47 49	11°55'15	1≈43	22°49	15°51	27°59	10°24	0°33	22°36	5°39	7°12	23°50	22°48	7°55	23°30	F 4
S 5	18 51 46	12°52'26	16°47	24°25	17° 2	27°D59	10°18	0°39	22°36	5°41	7°13	23°48	22°45	8° 2	23°36	S 5
S 6	18 55 42	13°49'37	1 <b>∺</b> 39	26° 4	18°14	28° 0	10°12	0°45	22°36	5°43	7°14	23°45	22°41	8° 8	23°43	S 6
M 7	18 59 39	14°46'48	16°13	27°47	19°25	28° 1	10° 6	0°51	22°37	5°45	7°16	23°43	22°38	8°15	23°50	M 7
T 8	19 3 35	15°44'00	0 <b>Υ</b> 25	29°32	20°36	28° 4	9°59	0°57	22°37	5°46	7°17	23°42	22°35	8°22	23°57	T 8
W 9	19 7 32	16°41'12	14°13	19921	21°46	28° 7	9°53	1° 3	22°37	5°48	7°18	23°D41	22°32	8°28	24° 4	W 9
T 10	19 11 28	17°38'24	27°36	3°13	22°57	28°11	9°46	1° 9	22°38	5°50	7°19	23°41	22°29	8°35	24°11	T 10
F 11	19 15 25	18°35'37	10838	5° 8	24° 8	28°16	9°40	1°15	22°38	5°52	7°20	23°42	22°26	8°42	24°18	F 11
S 12	19 19 22	19°32'51	23°20	7° 5	25°19	28°22	9°33	1°21	22°39	5°54	7°21	23°44	22°22	8°48	24°25	S 12
S 13	19 23 18	20°30'05	5 <b>Ⅱ</b> 47	9° 5	26°30	28°28	9°26	1°28	22°40	5°55	7°22	23°45	22°19	8°55	24°32	S 13
M14	19 27 15	21°27'20	18° 1	11° 7	27°40	28°35	9°19	1°34	22°40	5°57	7°23	23°R46	22°16	9° 2	24°39	M14
T 15	19 31 11	22°24'35	0ର୍ଚ୍ଚ 6	13°10	28°51	28°43	9°12	1°41	22°41	5°59	7°24	23°46	22°13	9° 8	24°45	T 15
W16	19 35 8	23°21'51	12° 4	15°15	0 Mp 1	28°52	9° 5	1°47	22°42	6° 0	7°25	23°45	22°10	9°15	24°52	W16
T 17	19 39 4	24°19'07	23°57	17°21	1°12	29° 1	8°58	1°54	22°43	6° 2	7°26	23°42	22° 6	9°22	24°59	T 17
F 18	19 43 1	25°16'24	5 <b>Ω</b> 47	19°29	2°22	29°11	8°50	2° 0	22°44	6° 4	7°27	23°38	22° 3	9°29	25° 6	F 18
S 19	19 46 57	26°13'41	17°37	21°36	3°32	29°22	8°43	2° 7	22°44	6° 5	7°28	23°32	22° 0	9°35	25°13	S 19
S 20	19 50 54	27°10'58	29°27	23°44	4°43	29°34	8°35	2°13	22°45	6° 7	7°29	23°26	21°57	9°42	25°20	S 20
M21	19 54 51	28° 8'16	11 <b>m</b> 22	25°52	5°53	29°46	8°28	2°20	22°46	6° 8	7°30	23°21	21°54	9°49	25°27	M21
T 22	19 58 47	29° 5'34	23°23	28° 0	7° 3	29°59	8°20	2°27	22°48	6°10	7°31	23°15	21°51	9°55	25°34	T 22
W23	20 2 44	oΩ 2'52	5 <b>Ω</b> 33	$0\Omega$ 7	8°13	0 <b>х</b> 13	8°13	2°34	22°49	6°11	7°32	23°11	21°47	10° 2	25°41	W23
T 24	20 6 40	1° 0'11	17°56	2°13	9°23	0°27	8° 5	2°40	22°50	6°13	7°33	23° 9	21°44	10° 9	25°48	T 24
F 25	20 10 37	1°57'31	0 <b>M</b> .36	4°19	10°33	0°42	7°57	2°47	22°51	6°14	7°34	23°D 8	21°41	10°15	25°55	F 25
S 26	20 14 33	2°54'50	13°37	6°23	11°42	0°58	7°50	2°54	22°52	6°16	7°34	23° 8	21°38	10°22	26° 2	S 26
S 27	20 18 30	3°52'11	27° 1	8°26	12°52	1°14	7°42	3° 1	22°54	6°17	7°35	23°10	21°35	10°29	26° 9	S 27
M28	20 22 26	4°49'32	10 <b>∡</b> 752	10°28	14° 2	1°31	7°34	3° 8	22°55	6°18	7°36	23°11	21°32	10°35	26°16	M28
T 29	20 26 23	5°46'53	25°11	12°29	15°11	1°49	7°26	3°15	22°57	6°20	7°37	23°R11	21°28	10°42	26°23	T 29
W30	20 30 20	6°44'15	9 <b>궁</b> 54	14°28	16°20	2° 7	7°19	3°22	22°58	6°21	7°38	23°10	21°25	10°49	26°30	W30
T 31	20 34 16	7 <b>Ω</b> 41'38	24 <b>궁</b> 57	$16\Omega_{25}$	17 <b>m</b> 30	2 <b>₹</b> 26	7≈11	3 <b>m</b> 29	23 <b>º</b> 0	6 <b>Ⅱ</b> 22	7 <b>Ⅲ</b> 38	23 <b>II</b> 7	21 <b>II</b> 22	$10\Omega 56$	26937	T 31

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T 1 W 2 T 3 F 4 S 5		24 9 24 27 22 56	0 s43 2 2	20n52 21 11 21 29 21 47 22 5	2s 5 1 53 1 41 1 28 1 16	18 29 18 8 17 46	1 47 1 46 1 46	22 s41 22 42 22 42 22 43 22 44	3 2 3 3 3 4	18 17	0 s41 0 41 0 41 0 41 0 42	12 48 12 46	1n35 1 35 1 35 1 35 1 35	8 s 1 5 8 1 5 8 1 5 8 1 6 8 1 6	0 35 0 35 0 35	19 42	1 s35 1 35 1 35 1 35 1 35	10 8 10 8	11 32 11 32 11 32	23n19 23 19 23 19 23 19 23 19	23 16 23 16 23 15	21 52 21 51 21 50	15 10 15 9 15 8	6 s22 6 22 6 22 6 22 6 22
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		16 3 19 41	<ul><li>2 40</li><li>1 37</li></ul>	23 20 23 26 23 30	0 21	14 37 14 12	1 37 1 36	22 52 22 54 22 55	3 10 3 11	18 32 18 34 18 36	0 43 0 43	-	1 34 1 34 1 34	8 17 8 17 8 17	0 34 0 34	19 44 19 44 19 45	1 35 1 35	10 9 10 9	11 33 11 33	23 18 23 18 23 18	<ul><li>23 14</li><li>23 14</li></ul>	<ul><li>21 40</li><li>21 39</li></ul>	15 0 14 58	6 21 6 21 6 21
T 15 W16 T 17 F 18	21 35 21 26 21 16 21 6	24 2 24 33 23 55 22 13	0n35 1 39 2 38 3 30	23 31 23 30 23 26 23 19 23 10 22 58	0 32 0 42 0 51 1 0 1 8 1 16	13 46 13 20 12 54 12 27 12 0 11 33	1 33 1 31 1 29 1 28	22 58 23 0 23 2 23 4 23 7 23 10	3 11 3 12 3 12 3 12 3 12 3 12	18 40 18 42 18 44	0 43 0 44 0 44 0 44 0 44	12 21 12 19 12 16 12 14	1 34 1 34 1 34 1 34 1 34 1 34	8 18 8 18 8 18 8 19 8 19 8 19	0 34 0 34 0 34 0 34	19 45 19 46	1 35 1 35 1 35 1 35 1 35 1 36	10 9 10 9 10 9 10 9	11 33 11 34 11 34 11 34	23 18 23 18 23 18 23 18 23 18 23 18	23 13 23 13 23 13 23 13	21 36 21 35 21 34 21 33	14 56 14 55 14 54 14 52	6 21 6 21 6 21 6 21 6 21 6 21
S 20 M21 T 22 W23 T 24 F 25 S 26	20 44 20 33 20 21 20 9 19 57 19 44 19 31	11 59 7 23 2 26 2s41 7 50	5 4 5 11 5 4 4 42 4 7	22 43 22 25 22 6 21 43 21 19 20 52 20 23	1 22 1 28 1 33 1 37 1 41 1 43 1 45	11 5 10 37 10 9 9 41 9 13 8 44 8 15	1 21 1 19 1 17 1 15 1 12	23 12 23 15 23 18 23 21 23 24 23 27 23 31	3 13 3 13 3 13		0 44 0 45 0 45 0 45 0 45 0 45 0 45	12 7 12 4 12 2 11 59 11 57	1 34 1 34 1 34 1 34 1 34 1 34	8 20 8 20 8 21 8 21 8 21 8 22 8 22	0 34 0 34 0 34 0 34 0 34	19 47 19 47 19 47	1 36 1 36 1 36 1 36 1 36 1 36	10 9 10 9 10 9 10 9 10 9	11 34 11 35 11 35 11 35 11 35	23 17 23 17 23 17 23 17 23 17 23 17 23 17	23 12 23 12 23 12 23 12 23 12	21 29 21 28 21 26 21 25 21 24	14 49 14 47 14 46 14 45	6 21 6 21 6 21 6 21 6 21 6 21 6 21
S 27 M28 T 29 W30 T 31	19 4 18 50 18 36	21 0 23 33 24 34	1 6 0s11 1 29	19 53 19 20 18 47 18 12 17n35	1 46 1 47 1 47 1 46 1n45	7 46 7 16 6 47 6 17 5n48	1 4 1 1 0 58	23 34 23 38 23 41 23 45 23 s48	3 13		0 46 0 46 0 46	11 52 11 49 11 47 11 44 11n41	1 34 1 34 1 34 1 34 1n34	8 23 8 24 8 24 8 25 8 825	0 34 0 34 0 34	19 48 19 48 19 48 19 48 19n49	1 36 1 36 1 36 1 36 1 s36	10 9 10 9	11 35 11 36 11 36	23 17 23 17 23 17 23 17 23 17 23n17	23 11 23 11 23 11	21 20 21 19 21 17	14 40 14 38 14 37	6 22 6 22 6 22 6 22 6 s22

Julian Day Number = 2411549.5, Delta T = -3.98 sec Ecliptic obliquity =  $23^{\circ}27'13$ , Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'40$ , Lahiri =  $22^{\circ}19'40$ 

AUGUST 1890 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	Р	v	v	Ç	Ŗ	Day
F 1	20 38 13	8 <b>Ω</b> 39'01	10≈12	18 <b>Ω</b> 21	18 <b>m</b> 39	2 <b>√</b> 45	7°R 3	3 Mp 36	23 <u>₽</u> 1	6 <b>Ⅱ</b> 24	7П39	23°R 2	21 <b>I</b> I19	11 <b>Q</b> 2	269543	F 1
S 2	20 42 9	9°36'26	25°28	20°16	19°48	3° 5	6≈55	3°43	23° 3	6°25	7°40	22 <b>II</b> 56	21°16	11° 9	26°50	S 2
S 3	20 46 6	10°33'51	10 <b>)</b> €36	22° 8	20°57	3°25	6°47	3°51	23° 5	6°26	7°41	22°49	21°12	11°16	26°57	S 3
M 4	20 50 2	11°31'17	25°25	24° 0	22° 6	3°46	6°40	3°58	23° 6	6°27	7°41	22°42	21° 9	11°22	27° 4	M 4
T 5	20 53 59	12°28'45	9 <b>Ƴ</b> 48	25°49	23°15	4° 8	6°32	4° 5	23° 8	6°28	7°42	22°37	21° 6	11°29	27°11	T 5
W 6	20 57 55	13°26'14	23°43	27°37	24°24	4°30	6°24	4°12	23°10	6°30	7°43	22°33	21° 3	11°36	27°18	W 6
T 7	21 1 52	14°23'44	7 <b>8</b> 10	29°24	25°32	4°52	6°17	4°20	23°12	6°31	7°43	22°31	21° 0	11°42	27°25	T 7
F 8	21 5 49	15°21'15	20°10	1 <b>m</b> ) 9	26°41	5°15	6° 9	4°27	23°14	6°32	7°44	22°D31	20°57	11°49	27°31	F 8
S 9	21 9 45	16°18'49	2 <b>∏</b> 47	2°52	27°49	5°38	6° 1	4°34	23°16	6°33	7°45	22°32	20°53	11°56	27°38	S 9
S 10	21 13 42	17°16'23	15° 7	4°34	28°58	6° 2	5°54	4°42	23°18	6°34	7°45	22°33	20°50	12° 2	27°45	S 10
M11	21 17 38	18°13'59	27°13	6°15	0 <b>호</b> 6	6°27	5°46	4°49	23°20	6°35	7°46	22°R33	20°47	12° 9	27°52	M11
T 12	21 21 35	19°11'36	99510	7°54	1°14	6°52	5°39	4°56	23°22	6°36	7°46	22°32	20°44	12°16	27°58	T 12
W13	21 25 31	20° 9'15	21° 1	9°31	2°22	7°17	5°32	5° 4	23°24	6°37	7°47	22°28	20°41	12°22	28° 5	W13
T 14	21 29 28	21° 6'55	2 <b>Ω</b> 50	11° 7	3°30	7°43	5°24	5°11	23°26	6°37	7°47	22°22	20°38	12°29	28°12	T 14
F 15	21 33 25	22° 4'36	14°40	12°41	4°38	8° 9	5°17	5°19	23°28	6°38	7°48	22°13	20°34	12°36	28°18	F 15
S 16	21 37 21	23° 2'19	26°32	14°14	5°45	8°35	5°10	5°26	23°31	6°39	7°48	22° 2	20°31	12°43	28°25	S 16
S 17	21 41 18	24° 0'03	8 <b>m</b> 27	15°45	6°53	9° 3	5° 3	5°34	23°33	6°40	7°49	21°51	20°28	12°49	28°31	S 17
M18	21 45 14	24°57'48	20°28	17°15	8° 0	9°30	4°56	5°41	23°35	6°41	7°49	21°39	20°25	12°56	28°38	M18
T 19	21 49 11	25°55'34	2 <b>≏</b> 36	18°44	9° 7	9°58	4°49	5°49	23°38	6°41	7°50	21°28	20°22	13° 3	28°45	T 19
W20	21 53 7	26°53'22	14°52	20°10	10°14	10°26	4°43	5°56	23°40	6°42	7°50	21°20	20°18	13° 9	28°51	W20
T 21	21 57 4	27°51'11	27°19	21°36	11°21	10°55	4°36	6° 4	23°43	6°43	7°50	21°13	20°15	13°16	28°58	T 21
F 22	22 1 0	28°49'01	10 <b>M</b> 0	22°59	12°28	11°24	4°29	6°11	23°45	6°43	7°51	21° 9	20°12	13°23	29° 4	F 22
S 23	22 4 57	29°46'52	22°58	24°21	13°35	11°53	4°23	6°19	23°48	6°44	7°51	21° 8	20° 9	13°29	29°10	S 23
S 24	22 8 53	0 <b>m</b> 44'45	6 <b>√</b> 17	25°42	14°42	12°23	4°17	6°26	23°50	6°45	7°51	21°D 8	20° 6	13°36	29°17	S 24
M25	22 12 50	1°42'39	1 <u>9</u> °58	27° 1	15°48	12°53	4°11	6°34	23°53	6°45	7°52	21°R 8	20° 3	13°43	29°23	M25
T 26	22 16 47	2°40'34	4중 4	28°18	16°54	13°24	4° 5	6°41	23°56	6°46	7°52	21° 8	19°59	13°50	29°29	T 26
W27	22 20 43	3°38'30	18°35	29°33	18° 0	13°54	3°59	6°49	23°58	6°46	7°52	21° 5	19°56	13°56	29°36	W27
T 28	22 24 40	4°36'28	3≈28	0 <b>ჲ</b> 47	19° 6	14°25	3°53	6°56	24° 1	6°47	7°52	21° 0	19°53	14° 3	29°42	T 28
F 29	22 28 36	5°34'27	18°35	1°58	20°12	14°57	3°48	7° 4	24° 4	6°47	7°53	20°53	19°50	14°10	29°48	F 29
S 30	22 32 33	6°32'27	3 <b>)</b> (49	3° 8	21°17	15°29	3°42	7°12	24° 7	6°47	7°53	20°43	19°47	14°16	29°54	S 30
S 31	22 36 29	7 <b>m</b> 30'29	18 <b>∺</b> 58	4 <b>₽</b> 15	22 <b>≏</b> 23	16 <b>∡</b> 1	3 <b>≈</b> 37	7 <b>m</b> 19	24 <b>♀</b> 9	6 <b>Ⅱ</b> 48	7Ⅲ53	20耳33	19 <b>∏</b> 43	14 <b>\O</b> 23	$0\Omega$ 0	S 31

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F 1 S 2	-	21 s20 3 s46 17 19 4 33				19s16 0s46 19 18 0 46	11n39 1n34 11 36 1 34			10n 9 11s36 10 8 11 36	23n16 23n 23 16 23		
S 3 M 4 T 5 W 6 T 7	17 36 17 20 17 4 16 48 16 31	6 31 5 7 0 37 4 54 5n 8 4 24		3 3 47 0 43 1 0 3 17 0 39 1 5 2 47 0 36 1	24 3 3 12 24 7 3 12 24 11 3 11	19 22 0 47 19 24 0 47 19 26 0 47	11 28 1 34	8 28 0 34 8 29 0 34	19 49 1 36 19 49 1 36 19 50 1 36	10 8 11 37 10 8 11 37 10 8 11 37	23 16 23 23 15 23 23 15 23 23 15 23 23 15 23	10 21 11	14 30 6 23 14 29 6 23 14 27 6 23
F 8 S 9	16 15 15 57		12 14 1 14 11 31 1 9				11 20 1 34 11 18 1 34				23 15 23 23 15 23		14 24 6 23 14 23 6 23
S 10 M11 T 12 W13 T 14 F 15 S 16	15 22 15 5 14 46 14 28 14 10	23 50 0n25 24 36 1 28 24 13 2 26	8 40 0 43 7 57 0 35 7 14 0 28	0 14 0 17 0 0 17 0 0 13 0 0 18 0 18 0 10 1 1 1 1 1 1 1 1 1 1 1	24 31 3 10 24 34 3 9 24 38 3 9 24 42 3 8 24 46 3 8	19 36 0 47 19 38 0 47 19 40 0 47 19 42 0 47 19 44 0 48	11 10 1 34 11 7 1 34 11 4 1 34	8 33 0 33 8 34 0 33 8 35 0 33 8 36 0 33 8 36 0 33	19 50 1 36 19 50 1 37 19 50 1 37 19 51 1 37 19 51 1 37	10 8 11 38 10 8 11 38 10 7 11 38 10 7 11 39 10 7 11 39	23 15 23 23 15 23 23 15 23 23 14 23 23 14 23 23 14 23 23 13 23	8 21 1 8 21 0 8 20 59 7 20 57	14 18 6 24 14 17 6 24 14 15 6 24 14 14 6 25
S 17 M18 T 19 W20 T 21 F 22 S 23		8 25 5 3 3 31 4 57 1 s 35 4 38	5 6 0 4 4 24 0s 4 3 42 0 13 3 0 0 21 2 19 0 30	3 21 0 11 2 3 51 0 16 3 4 22 0 20 2 4 52 0 25 2 0 5 23 0 29	25 12 3 4	19 49 0 48 19 51 0 48 19 52 0 48 19 54 0 48 19 56 0 48	10 53 1 34 10 51 1 34 10 48 1 34 10 45 1 34 10 42 1 34	8 39 0 33 8 40 0 33 8 41 0 33 8 42 0 33 8 43 0 33	19 51 1 37 19 51 1 37 19 51 1 37 19 51 1 37	10 7 11 39 10 7 11 40 10 7 11 40 10 6 11 40 10 6 11 40	23 12 23 23 11 23 23 11 23 23 10 23 23 10 23 23 10 23 23 10 23 23 9 23	7 20 53 6 20 51 6 20 50 6 20 49 6 20 46 5 20 44	14 9 6 25 14 8 6 26 14 6 6 26 14 5 6 26 14 3 6 27
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	11 13 10 52 10 32 10 11 9 50 9 28 9 7 8n45	22 58 0 6 24 32 1s 8 24 29 2 20 22 42 3 24 19 18 4 15 14 35 4 48	0 19 0 57 0 s 20 1 6 0 58 1 15 1 36 1 25 2 13 1 34 2 49 1 43	7 6 53 0 43 1	25 22 3 2 25 25 3 2 25 29 3 1 25 32 3 0 25 35 3 0 25 38 2 59	20 2 0 48 20 3 0 48 20 5 0 48 20 6 0 48 20 7 0 48	10 34 1 34 10 31 1 34 10 29 1 34 10 26 1 35 10 23 1 35	8 46 0 33 8 47 0 33 8 48 0 33 8 49 0 33 8 50 0 33 8 51 0 33	19 51 1 37 19 51 1 37 19 51 1 37 19 51 1 37 19 51 1 37	10 6 11 41 10 6 11 41 10 5 11 41 10 5 11 42 10 5 11 42	23 9 23 23 9 23 23 9 23 23 9 23 23 8 23 23 8 23	5 20 40 4 20 38 4 20 37 4 20 35 4 20 34	13 58 6 27 13 57 6 28 13 55 6 28 13 54 6 28 13 52 6 29 13 50 6 29

 $\label{eq:Julian Day Number = 2411580.5, Delta\ T = -3.99\ sec} \\ Ecliptic obliquity = 23°27'14, Nutation = -0°00'15, out-of-bounds declination in red$ 

SEPTEMBER 1890 00:00 UT

JLI	ILMDLK	1030													00.00	0 01
Day	Sid.t	0	D	ğ	·	♂ <sup>™</sup>	4	ħ	)∤(	¥	Р	S.	v	Ç	& &	Day
M 1	22 40 26	8 m 28'33	<b>3</b> Υ52	5 <b>₽</b> 20	23 <u>₽</u> 28	16 <b>₹</b> 33	3°R32	7 <b>m</b> 27	24 <u>₽</u> 12	6 <b>Ⅱ</b> 48	7 <b>Ⅱ</b> 53	20°R22	19 <b>Ⅱ</b> 40	14€30	0 <b>Ω</b> 6	M 1
T 2	22 44 22	9°26'39	18°23	6°23	24°33	17° 6	3≈27	7°34	24°15	6°48	7°53	20 <b>Ⅱ</b> 13	19°37	14°36	0°12	T 2
W 3	22 48 19	10°24'46	2 <b>8</b> 25	7°24	25°38	17°39	3°22	7°42	24°18	6°48	7°53	20° 6	19°34	14°43	0°18	W 3
T 4	22 52 16	11°22'56	15°57	8°22	26°42	18°12	3°17	7°50	24°21	6°49	7°53	20° 2	19°31	14°50	0°24	T 4
F 5	22 56 12	12°21'07	29° 0	9°17	27°47	18°46	3°13	7°57	24°24	6°49	7°53	20° 0	19°28	14°56	0°30	F 5
S 6	23 0 9	13°19'21	11 <b>Ⅱ</b> 39	10°10	28°51	19°19	3° 8	8° 5	24°27	6°49	7°54	19°59	19°24	15° 3	0°36	S 6
S 7	23 4 5	14°17'36	23°58	10°59	29°55	19°53	3° 4	8°12	24°30	6°49	7°R54	19°59	19°21	15°10	0°42	S 7
M 8	23 8 2	15°15'54	6ණ 2	11°45	0 <b>M</b> .58	20°28	3° 0	8°20	24°33	6°49	7°54	19°59	19°18	15°17	0°47	M 8
T 9	23 11 58	16°14'14	17°57	12°27	2° 2	21° 2	2°57	8°27	24°37	6°49	7°54	19°56	19°15	15°23	0°53	T 9
W10	23 15 55	17°12'36	29°46	13° 6	3° 5	21°37	2°53	8°35	24°40	6°R49	7°53	19°51	19°12	15°30	0°59	W10
T 11	23 19 51	18°11'00	11 <b>Ω</b> 35	13°40	4° 8	22°12	2°49	8°42	24°43	6°49	7°53	19°44	19° 9	15°37	1° 4	T 11
F 12	23 23 48	19° 9'25	23°27	14°10	5°11	22°48	2°46	8°50	24°46	6°49	7°53	19°33	19° 5	15°43	1°10	F 12
S 13	23 27 45	20° 7'53	5 <b>m</b> 23	14°36	6°14	23°23	2°43	8°57	24°49	6°49	7°53	19°20	19° 2	15°50	1°15	S 13
S 14	23 31 41	21° 6'23	17°26	14°56	7°16	23°59	2°40	9° 5	24°53	6°49	7°53	19° 7	18°59	15°57	1°21	S 14
M15	23 35 38	22° 4'54	29°37	15°11	8°18	24°35	2°37	9°12	24°56	6°49	7°53	18°52	18°56	16° 3	1°26	M15
T 16	23 39 34	23° 3'27	11 <b>≏</b> 57	15°20	9°20	25°12	2°35	9°20	24°59	6°48	7°53	18°39	18°53	16°10	1°31	T 16
W17	23 43 31	24° 2'03	24°26	15°R24	10°21	25°48	2°33	9°27	25° 3	6°48	7°53	18°29	18°49	16°17	1°37	W17
T 18	23 47 27	25° 0'40	7 <b>™</b> 6	15°20	11°22	26°25	2°30	9°35	25° 6	6°48	7°52	18°20	18°46	16°24	1°42	T 18
F 19	23 51 24	25°59'18	19°56	15°10	12°23	27° 2	2°28	9°42	25° 9	6°48	7°52	18°15	18°43	16°30	1°47	F 19
S 20	23 55 20	26°57'59	3 <b>₹</b> 0	14°53	13°23	27°39	2°27	9°49	25°13	6°47	7°52	18°13	18°40	16°37	1°52	S 20
S 21	23 59 17	27°56'41	16°20	14°29	14°24	28°16	2°25	9°57	25°16	6°47	7°52	18°D12	18°37	16°44	1°57	S 21
M22	0 3 14	28°55'25	29°56	13°58	15°23	28°54	2°24	10° 4	25°20	6°47	7°51	18°R12	18°34	16°50	2° 2	M22
T 23	0 7 10	29°54'11	13 <b>る</b> 53	13°20	16°23	29°32	2°23	10°11	25°23	6°46	7°51	18°12	18°30	16°57	2° 7	T 23
W24	0 11 7	0 <b>ჲ</b> 52'58	28° 8	12°34	17°22	0 <b>궁</b> 10	2°22	10°19	25°27	6°46	7°51	18° 9	18°27	17° 4	2°11	W24
T 25	0 15 3	1°51'47	12≈42	11°42	18°21	0°48	2°21	10°26	25°30	6°45	7°50	18° 5	18°24	17°11	2°16	T 25
F 26	0 19 0	2°50'38	27°30	10°45	19°19	1°26	2°20	10°33	25°34	6°45	7°50	17°57	18°21	17°17	2°21	F 26
S 27	0 22 56	3°49'30	12 <b>∺</b> 26	9°43	20°17	2° 5	2°20	10°40	25°37	6°44	7°49	17°48	18°18	17°24	2°25	S 27
S 28	0 26 53	4°48'25	27°20	8°37	21°14	2°44	2°D20	10°48	25°41	6°44	7°49	17°37	18°15	17°31	2°30	S 28
M29	0 30 49	5°47'21	12 <b>°</b> 4	7°29	22°11	3°23	2°20	10°55	25°44	6°43	7°49	17°26	18°11	17°37	2°34	M29
T 30	0 34 46	6 <b>₽</b> 46'19	26 <b>Y</b> 29	6 <b>₽</b> 21	23M 8	4る 2	2≈20	11 Mp 2	25 <b>≏</b> 48	6 <b>Ⅱ</b> 42	7 <b>Ⅱ</b> 48	17 <b>Ⅲ</b> 17	18 <b>II</b> 8	17 <b>Ω</b> 44	$2\Omega$ 39	T 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 d	ecl decl	decl lat
M 1	8n24	2s56 4s53	3 s 59 2 s	1 10s19 1s17	25 s43 2 s58	20s10 0s4	8 10n15 1n35	8 s53 0n33	19n51 1s38	10n 5 11s42	23n 6 23ı	3 20n31	13n47 6s30
T 2	8 2	3n 6 4 26	4 32 2 1			20 11 0 4			19 51 1 38				13 46 6 30
W 3	7 40	8 49 3 44	5 4 2 1			20 12 0 4							13 44 6 31
T 4 F 5	7 18 6 56	13 55 2 50 18 11 1 49				20 13 0 4 20 14 0 4						2 20 26	
S 6	6 34	-	6 5 2 3 6 34 2 4			20 14 0 4			19 51 1 38 19 51 1 38			2 20 25 2 20 23	
S 7	-	23 40 0n21	7 1 2 5			20 16 0 4							13 38 6 32
M 8 T 9		24 43 1 24 24 36 2 22	7 26 3 7 50 3 1			20 17 0 4 20 18 0 4						1 20 20	13 36 6 33 13 34 6 33
W10		24 36 2 22 23 14	8 12 3 1			20 18 0 4					_		13 34 6 33
T 11		21 6 3 57	8 32 3 2		-	20 20 0 4					_		13 33 6 34
F 12						20 20 0 4				· ·			13 29 6 34
S 13	-		9 5 3 3			20 21 0 4							13 28 6 35
S 14	3 32	9 33 4 59	9 18 3 4	13 16 12 2 23	26 6 2 47	20 22 0 4	8 9 39 1 36	9 8 0 32	19 51 1 38	10 2 11 45	23 0 23	0 20 11	13 26 6 35
M15	3 9	4 39 4 54	9 29 3 4	17 16 37 2 29	<b>26 7</b> 2 47	20 22 0 4	8 9 36 1 36	9 9 0 32	19 51 1 38	10 2 11 45	22 59 23	0 20 9	13 25 6 36
T 16	2 45	0s30 4 36	9 36 3 5	51 17 2 2 34	26 8 2 46	20 23 0 4	8 9 33 1 36	9 11 0 32	19 51 1 38	10 1 11 46	22 58 22	59 20 8	13 23 6 36
W17	2 22	5 42 4 3	9 40 3 5		26 8 2 45						22 57 22		13 22 6 37
T 18	1 59	10 45 3 19	9 41 3 5			20 24 0 4					22 57 22		13 20 6 37
F 19			9 38 3 5			20 24 0 4					22 56 22		13 18 6 38
S 20	1 12	19 28 1 19	9 31 3 5	57 18 38 2 54	26 8 2 42	20 25 0 4	8 9 23 1 36	9 16 0 32	19 50 1 38	10 0 11 46	22 56 22	58 20 1	13 17 6 38
S 21						20 25 0 4			19 50 1 39		22 56 22		
M22	0 26		9 4 3 5			20 25 0 4					22 56 22		
T 23	-	24 55 2 11	8 45 3 4			20 25 0 4					22 56 22		
W24	0 s21		-			20 26 0 4					22 56 22		
T 25	-	20 56 4 6				20 26 0 4					22 55 22		
F 26 S 27	1 8 1 31	16 46 4 43 11 31 5 0	7 20 3 2 6 44 3	21 20 51 3 25 8 21 11 3 29		20 26 0 4 20 26 0 4					22 54 22 22 54 22		
S 28	1 55	5 36 4 57				20 26 0 4			19 49 1 39				
T 30	2 s41	6n35 3s54				20 20 0 4 20 s26 0 s4			19n49 1 s39		-		
M29 T 30	2 18 2 s41	0n34 4 34	5 23 2 3	38 21 51 3 39	25 58 2 34	20 26 0 4	8 8 59 1 37	9 27 0 32	19 49 1 39	9 58 11 48	22 52 22	56 19 47	13 3 6

 $\label{eq:Julian Day Number = 2411611.5, Delta T = -4.01 sec} \begin{tabular}{ll} Ecliptic obliquity = $23^\circ27'15$, Nutation = -0°00'16, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $23^\circ12'48$, Lahiri = $22^\circ19'49$ \end{tabular}$ 

OCTOBER 1890 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	В	ß	ດ	Ç	ķ	Day
														-		,
W 1	0 38 42	7 <b>£</b> 45′20	10830	5°R14	24M 4	4 <b>정</b> 41	2 <b>≈</b> 20	11 <b>m</b> ) 9	25 <b>£</b> 52	6°R42	7°R48	17°R10	18 <b>I</b> 5	17 <b>Ω</b> 51	2 <b>Ω</b> 43	W 1
T 2	0 42 39	8°44'22	24° 4	4 <u>₽</u> 10	24°59	5°20	2°21	11°16	25°55	6 <b>Ⅱ</b> 41	7 <b>∏</b> 47	17 <b>I</b> 5	18° 2	17°57	2°47	T 2
F 3	0 46 36	9°43'28	7 <b>Ⅱ</b> 10	3°12	25°54	6° 0	2°22	11°23	25°59	6°40	7°47	17° 3	17°59	18° 4	2°51	F 3
S 4	0 50 32	10°42'35	19°53	2°20	26°49	6°39	2°23	11°30	26° 3	6°39	7°46	17°D 3	17°55	18°11	2°56	S 4
S 5	0 54 29	11°41'45	29514	1°36	27°43	7°19	2°24	11°37	26° 6	6°39	7°46	17° 3	17°52	18°18	3° 0	S 5
M 6	0 58 25	12°40'57	14°20	1° 1	28°36	7°59	2°25	11°44	26°10	6°38	7°45	17°R 3	17°49	18°24	3° 3	M 6
T 7	1 2 22	13°40'11	26°16	0°37	29°29	8°39	2°27	11°51	26°14	6°37	7°44	17° 2	17°46	18°31	3° 7	T 7
W 8	1 6 18	14°39'28	8 <b>N</b> 7	0°22	0 <b>∡</b> 121	9°20	2°29	11°57	26°17	6°36	7°44	17° 0	17°43	18°38	3°11	W 8
T 9	1 10 15	15°38'46	19°57	0°D19	1°13	10° 0	2°31	12° 4	26°21	6°35	7°43	16°54	17°40	18°44	3°15	T 9
F 10	1 14 11	16°38'07	1 <b>m</b> 52	0°27	2° 4	10°41	2°33	12°11	26°25	6°34	7°42	16°47	17°36	18°51	3°18	F 10
S 11	1 18 8	17°37'31	13°53	0°45	2°54	11°21	2°35	12°18	26°29	6°33	7°42	16°37	17°33	18°58	3°22	S 11
S 12	1 22 5	18°36'56	26° 5	1°13	3°43	12° 2	2°38	12°24	26°32	6°32	7°41	16°26	17°30	19° 4	3°25	S 12
M13	1 26 1	19°36'24	8 <b>₾</b> 28	1°50	4°32	12°43	2°40	12°31	26°36	6°31	7°40	16°15	17°27	19°11	3°29	M13
T 14	1 29 58	20°35'53	21° 3	2°37	5°20	13°24	2°43	12°37	26°40	6°30	7°40	16° 5	17°24	19°18	3°32	T 14
W15	1 33 54	21°35'25	3 <b>M</b> .50	3°31	6° 7	14° 6	2°46	12°44	26°44	6°29	7°39	15°56	17°20	19°25	3°35	W15
T 16	1 37 51	22°34'59	16°48	4°32	6°53	14°47	2°50	12°50	26°47	6°28	7°38	15°50	17°17	19°31	3°38	T 16
F 17	1 41 47	23°34'35	29°58	5°40	7°39	15°28	2°53	12°57	26°51	6°27	7°37	15°47	17°14	19°38	3°41	F 17
S 18	1 45 44	24°34'12	13 <b>×</b> 19	6°53	8°23	16°10	2°57	13° 3	26°55	6°26	7°37	15°D46	17°11	19°45	3°44	S 18
S 19	1 49 40	25°33'52	26°51	8°11	9° 7	16°52	3° 1	13° 9	26°59	6°25	7°36	15°46	17° 8	19°51	3°47	S 19
M20	1 53 37	26°33'33	10 <b>궁</b> 35	9°34	9°50	17°34	3° 5	13°15	27° 3	6°23	7°35	15°47	17° 5	19°58	3°50	M20
T 21	1 57 34	27°33'16	24°30	10°59	10°31	18°16	3° 9	13°22	27° 6	6°22	7°34	15°R48	17° 1	20° 5	3°52	T 21
W22	2 1 30	28°33'00	8≈37	12°28	11°12	18°58	3°13	13°28	27°10	6°21	7°33	15°47	16°58	20°12	3°55	W22
T 23	2 5 27	29°32'46	22°55	13°59	11°51	19°40	3°18	13°34	27°14	6°20	7°33	15°45	16°55	20°18	3°57	T 23
F 24	2 9 23	0 <b>M</b> 32'34	7 <b>∺</b> 20	15°33	12°29	20°22	3°23	13°40	27°18	6°18	7°32	15°41	16°52	20°25	4° 0	F 24
S 25	2 13 20	1°32'23	21°49	17° 7	13° 6	21° 4	3°28	13°46	27°21	6°17	7°31	15°35	16°49	20°32	4° 2	S 25
S 26	2 17 16	2°32'15	6 <b>Υ</b> 16	18°43	13°42	21°47	3°33	13°52	27°25	6°16	7°30	15°28	16°46	20°38	4° 4	S 26
M27	2 21 13	3°32'07	20°36	20°20	14°16	22°29	3°38	13°57	27°29	6°14	7°29	15°21	16°42	20°45	4° 6	M27
T 28	2 25 9	4°32'02	4842	21°58	14°49	23°12	3°44	14° 3	27°33	6°13	7°28	15°15	16°39	20°52	4° 8	T 28
W29	2 29 6	5°31'59	18°29	23°37	15°20	23°55	3°49	14° 9	27°36	6°12	7°27	15°11	16°36	20°58	4°10	W29
T 30	2 33 3	6°31'58	1 <b>II</b> 55	25°15	15°50	2 <u>4</u> °38	3°55	14°14	27°40	6°10	7°26	15° 8	16°33	21° 5	4°12	T 30
F 31	2 36 59	7 <b>M</b> .31'59	14∏59	26 <b>♀</b> 54	16 <b>×</b> 19	25 <b>る</b> 20	4≈ 1	14 <b>m</b> 20	27 <b>≏</b> 44	6 <b>I</b> 9	7 <b>Ⅱ</b> 25	15°D 7	16 <b>II</b> 30	212112	4 <b>Ω</b> 13	F 31

Day	0	D	ğ	·	♂ <sup>™</sup>	4	ħ	)Å(	卉	В	น เ	J ¢	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl d	ecl decl	decl lat
W 1 T 2 F 3	3 s 5 3 28 3 51	12n 7 3s 1 16 53 1 59 20 40 0 52	3 s 5 6 2 s 3 13 1 4 2 31 1 2	2 22 48 3 53 2	5 51 2 31	20 s26 0 s48 20 26 0 48 20 25 0 48	8n54 1n38 8 51 1 38 8 49 1 38	9 s30 0n32 9 31 0 32 9 33 0 32	19 49 1 39	9n58 11s48 9 57 11 49 9 57 11 49	22 50 22	55 19 42	3 13n 0 6s44 2 12 58 6 45 0 12 57 6 46
S 4	4 15	23 19 0n15	1 51 1	1 23 23 4 2 2	5 46 2 29	20 25 0 48	8 46 1 38	9 34 0 32	19 48 1 39	9 57 11 49	22 49 22	54 19 38	8 12 55 6 46
S 5 M 6 T 7 W 8 T 9 F 10		22 4 3 57 19 8 4 31	0n 6 0n1 0 23 0 3	21 23 56 4 11 2 2 24 12 4 15 2 6 24 27 4 19 2	5 39 2 27 5 36 2 26 5 32 2 25 5 28 2 24	20 25 0 48 20 24 0 48 20 24 0 48 20 24 0 48 20 23 0 48 20 23 0 48 20 23 0 48	8 44 1 38 8 41 1 38 8 39 1 39 8 36 1 39 8 34 1 39 8 31 1 39	9 35 0 32 9 37 0 32 9 38 0 32 9 39 0 32 9 41 0 32 9 42 0 32	19 48 1 39 19 48 1 39 19 48 1 39 19 47 1 39	9 57 11 49 9 56 11 49 9 56 11 50 9 56 11 50 9 56 11 50 9 55 11 50	22 49 22 22 49 22 22 49 22 22 49 22	54 19 35 53 19 33 53 19 32 53 19 30	5 12 52 6 47 3 12 51 6 48 2 12 49 6 49 0 12 48 6 49
S 11	6 55			3 25 11 4 31 2		20 23 0 48	8 29 1 39	9 42 0 32		9 55 11 50			
S 12 M13 T 14 W15 T 16 F 17 S 18	7 18 7 41 8 3 8 25 8 48 9 10 9 32	6 8 5 0 0 58 4 42 4s21 4 10 9 35 3 25 14 29 2 29 18 47 1 24 22 12 0 13	0 40 1 1 0 35 1 2 0 25 1 3 0 11 1 4 0 s 8 1 5 0 30 1 5 0 55 1 5	26 25 37 4 38 2 25 25 49 4 42 2 33 26 1 4 45 2 60 26 12 4 48 2	5 10 2 20 5 4 2 18 4 59 2 17 4 54 2 16 4 48 2 15	20 21 0 47 20 21 0 47 20 20 0 47 20 20 0 47 20 19 0 47 20 18 0 47 20 18 0 47 20 17 0 47	8 26 1 39 8 24 1 39 8 22 1 40 8 19 1 40 8 17 1 40 8 15 1 40 8 12 1 40	9 45 0 32 9 46 0 32 9 48 0 32 9 49 0 32 9 50 0 32 9 52 0 32 9 53 0 32	19 47 1 39 19 46 1 39 19 46 1 40 19 46 1 40 19 46 1 40	9 55 11 50 9 55 11 51 9 54 11 51 9 54 11 51 9 54 11 51 9 54 11 51 9 53 11 51	22 45 22 22 44 22 22 43 22 22 42 22 22 42 22	52 19 23 51 19 21 51 19 19 51 19 18 50 19 16	3 12 42 6 52 1 12 41 6 53 9 12 40 6 53 3 12 38 6 54 5 12 37 6 55
S 19 M20 T 21 W22 T 23 F 24 S 25	10 15 10 37	24 24 3 13 22 4 4 6 18 22 4 44	1 54 2 2 27 2 3 2 2 3 39 2 4 16 2	4 27 1 5 2 2 3 27 9 5 4 2 2 27 16 5 6 2 0 27 23 5 7 2	4 29 2 12 4 22 2 11 4 15 2 10		8 10 1 40 8 8 1 41 8 6 1 41 8 3 1 41 7 59 1 41 7 57 1 42	9 54 0 32 9 56 0 32 9 57 0 32 9 59 0 32 10 0 0 32 10 1 0 32 10 3 0 32	19 45 1 40 19 45 1 40 19 45 1 40 19 44 1 40 19 44 1 40	9 52 11 52	22 42 22 22 42 22 22 42 22 22 42 22 22 41 22	50 19 11 49 19 9 49 19 5 49 19 5 48 19 3	
S 26 M27 T 28 W29 T 30 F 31	12 22 12 42 13 2 13 22 13 42 14s 2	15 6 2 20 19 24 1 11	6 14 1 5 6 54 1 4 7 35 1 4 8 15 1 3	31     27     41     5     11     2       47     27     45     5     12     2       43     27     49     5     12     2	3 37 2 4 3 29 2 3 3 20 2 2 3 12 2 1	20 5 0 47 20 4 0 47	7 49 1 42 7 47 1 42	10 5 0 32 10 7 0 32 10 8 0 32 10 9 0 32	19 43 1 40 19 43 1 40 19 43 1 40	9 51 11 52 9 51 11 52 9 51 11 52 9 51 11 53 9 50 11 53 9n50 11 s53	22 39 22 22 38 22 22 38 22 22 37 22	47 18 58 47 18 56 47 18 54 46 18 53	5 12 24 7 2 4 12 22 7 3 3 12 21 7 4

Julian Day Number = 2411641.5, Delta T = -4.03 sec Ecliptic obliquity =  $23^{\circ}27'15$ , Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'52$ , Lahiri =  $22^{\circ}19'53$ 

NOVEMBER 1890 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	¥	Р	R	v	Ç	κ <sub>O</sub>	Day
S 1	2 40 56	8MJ32'02	27 <b>II</b> 41	28 <b>ഫ</b> 33	16 <b>∡</b> 746	26 <b>궁</b> 3	4≈ 7	14 <b>m</b> 25	27 <b>≏</b> 48	6°R 7	7°R24	15 <b>II</b> 8	16耳26	21 <b>\O</b> 19	4 <b>Ω</b> 15	S 1
S 2	2 44 52	9°32'07	1095 5	0 <b>M</b> .12	17°11	26°46	4°14	14°31	27°51	6 <b>I</b> I 6	7Ⅲ23	15° 9	16°23	21°25	4°16	S 2
M 3	2 48 49	10°32'14	22°13	1°51	17°34	27°30	4°20	14°36	27°55	6° 4	7°22	15°11	16°20	21°32	4°18	M 3
T 4	2 52 45	11°32'23	4 <b>Ω</b> 11	3°30	17°56	28°13	4°27	14°41	27°59	6° 3	7°21	15°12	16°17	21°39	4°19	T 4
W 5	2 56 42	12°32'34	16° 4	5° 9	18°16	28°56	4°34	14°47	28° 3	6° 1	7°20	15°R13	16°14	21°45	4°20	W 5
T 6	3 0 38	13°32'47	27°56	6°47	18°34	29°39	4°40	14°52	28° 6	6° 0	7°19	15°11	16°11	21°52	4°21	T 6
F 7	3 4 3 5	14°33'02	9 <b>₯</b> 52	8°26	18°50	0≈23	4°48	14°57	28°10	5°58	7°18	15° 9	16° 7	21°59	4°22	F 7
S 8	3 8 32	15°33'19	21°56	10° 3	19° 3	1° 6	4°55	15° 2	28°14	5°57	7°17	15° 5	16° 4	22° 6	4°23	S 8
S 9	3 12 28	16°33'38	4 <b>₽</b> 13	11°41	19°15	1°50	5° 2	15° 7	28°17	5°55	7°16	15° 0	16° 1	22°12	4°24	S 9
M10	3 16 25	17°33'59	16°44	13°18	19°25	2°33	5°10	15°11	28°21	5°53	7°15	14°56	15°58	22°19	4°25	M10
T 11	3 20 21	18°34'22	29°32	14°55	19°32	3°17	5°18	15°16	28°24	5°52	7°14	14°51	15°55	22°26	4°25	T 11
W12	3 24 18	19°34'47	12 <b>M</b> .36	16°32	19°37	4° 1	5°25	15°21	28°28	5°50	7°13	14°47	15°52	22°32	4°26	W12
T 13	3 28 14	20°35'13	25°57	18° 9	19°40	4°45	5°33	15°25	28°32	5°49	7°12	14°45	15°48	22°39	4°26	T 13
F 14	3 32 11	21°35'41	9 <b>.₹</b> 32	19°45	19°R41	5°29	5°42	15°30	28°35	5°47	7°11	14°D44	15°45	22°46	4°26	F 14
S 15	3 36 7	22°36'11	23°19	21°21	19°39	6°13	5°50	15°34	28°39	5°45	7°10	14°44	15°42	22°53	4°27	S 15
S 16	3 40 4	23°36'42	7 <b>云</b> 16	22°56	19°34	6°57	5°58	15°39	28°42	5°44	7° 9	14°45	15°39	22°59	4°R27	S 16
M17	3 44 1	24°37'15	21°19	24°32	19°28	7°41	6° 7	15°43	28°46	5°42	7° 7	14°46	15°36	23° 6	4°27	M17
T 18	3 47 57	25°37'48	5≈28	26° 7	19°18	8°25	6°16	15°47	28°49	5°40	7° 6	14°48	15°32	23°13	4°27	T 18
W19	3 51 54	26°38'23	19°39	27°42	19° 6	9° 9	6°25	15°51	28°53	5°39	7° 5	14°48	15°29	23°19	4°26	W19
T 20	3 55 50	27°38'59	3 <b>∺</b> 50	29°16	18°52	9°53	6°34	15°55	28°56	5°37	7° 4	14°R48	15°26	23°26	4°26	T 20
F 21	3 59 47	28°39'36	17°59	0 <b>∡</b> 751	18°36	10°37	6°43	15°59	29° 0	5°35	7° 3	14°48	15°23	23°33	4°26	F 21
S 22	4 3 43	29°40'14	2 <b>Ŷ</b> 5	2°25	18°17	11°22	6°52	16° 3	29° 3	5°34	7° 2	14°46	15°20	23°40	4°25	S 22
S 23	4 7 40	0 <b>҂</b> 140′53	16° 4	3°59	17°55	12° 6	7° 1	16° 6	29° 6	5°32	7° 1	14°44	15°17	23°46	4°24	S 23
M24	4 11 36	1°41'34	29°53	5°33	17°32	12°50	7°11	16°10	29°10	5°30	7° 0	14°42	15°13	23°53	4°24	M24
T 25	4 15 33	2°42'16	13 <b>8</b> 31	7° 7	17° 6	13°35	7°21	16°13	29°13	5°29	6°58	14°41	15°10	24° 0	4°23	T 25
W26	4 19 30	3°42'58	26°55	8°41	16°38	14°19	7°30	16°17	29°16	5°27	6°57	14°40	15° 7	24° 6	4°22	W26
T 27	4 23 26	4°43'43	10耳 4	10°14	16° 9	15° 4	7°40	16°20	29°20	5°25	6°56	14°D39	15° 4	24°13	4°21	T 27
F 28	4 27 23	5°44'28	22°55	11°48	15°38	15°48	7°50	16°23	29°23	5°24	6°55	14°39	15° 1	24°20	4°20	F 28
S 29	4 31 19	6°45'15	5931	13°21	15° 5	16°33	8° 0	16°26	29°26	5°22	6°54	14°40	14°58	24°27	4°18	S 29
S 30	4 35 16	7 <b>∡</b> ¹46'04	179552	14 <b>×</b> 754	14 <b>×</b> 32	17≈17	8≈11	16 <b>m</b> 29	29 <b>Ω</b> 29	5 <b>Ⅱ</b> 20	6 <b>Ⅱ</b> 53	14∏41	14∏54	24⋒33	4 <b>Ω</b> 17	S 30

Day	0	D	ğ	·	ð	24	ħ	)Å(	卉	Р	R	ດ Ç	, k	
	decl	decl lat	decl l	lat decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl la	at
S 1	14 s21	24n34 1n 8	9 s 3 6	1n27 27s58 5s12	22 s54 1 s59	19 s 59 0 s 46	7n43 1n43	10 s12 0n32	19n42 1 s40	9n50 11 s53	22n37 22	n46 18n49	12n19	7 s 5
S 2			2 10 17			19 58 0 46			19 42 1 40	9 50 11 53				7 6
M 3	15 0	-	9 10 57	1 16 28 1 5 10			7 39 1 43			9 49 11 53				7 6
T 4 W 5	15 18 15 37		5 11 36 3 12 15	1 9 28 2 5 9 1 3 28 2 5 7	22 25 1 55 22 15 1 54		7 37 1 43 7 36 1 44			9 49 11 53 9 49 11 53		45 18 43	-	7 7 7 8
T 6		-	9 12 54	0 57 28 1 5 5		19 51 0 46	7 34 1 44					44 18 40		7 9
F 7	16 13			0 50 28 0 5 2		19 50 0 46	7 32 1 44	10 20 0 32	19 40 1 40	9 48 11 53				7 9
S 8	16 30	7 57 5 10	0 14 9	0 44 27 58 4 59	21 43 1 51	19 48 0 46	7 30 1 44	10 21 0 32	19 40 1 40	9 48 11 53	22 37 22	44 18 36	12 12	7 10
S 9	16 48	2 51 4 55	5 14 46	0 37 27 56 4 56	21 33 1 50	19 46 0 46	7 29 1 45	10 23 0 32	19 40 1 40	9 48 11 53	22 37 22	43 18 34	12 12	7 11
M10	17 5	2 s 2 9 4 2 6	-		21 22 1 48				19 39 1 40	9 48 11 53				7 11
T 11 W12	17 22 17 38	7 50 3 43 12 58 2 43			21 10 1 47 20 59 1 46	19 42 0 46 19 40 0 46	7 25 1 45 7 24 1 45			9 48 11 54 9 47 11 54				7 12 7 13
T 13	-, -,	17 37 1 41			20 39 1 46 20 47 1 45	19 40 0 46	7 24 1 45			9 47 11 54				7 14
F 14		21 25 0 29			20 35 1 44	19 36 0 46	7 21 1 46			9 47 11 54				7 14
S 15	18 26	24 4 0 s47	7 18 10	0s 4 27 27 4 25	20 23 1 43	19 34 0 46	7 19 1 46	10 30 0 32	19 38 1 40	9 47 11 54	22 35 22	41 18 23	12 7	7 15
S 16	18 41	25 16 2	1 18 41	0 10 27 20 4 18	20 11 1 41	19 32 0 46	7 18 1 46	10 31 0 32	19 38 1 40	9 47 11 54	22 35 22	41 18 21	12 6	7 16
M17	18 56		8 19 11			19 30 0 46	7 16 1 46		19 37 1 40	9 46 11 54				7 16
T 18	-,		4 19 41	0 24 27 2 4 2		19 27 0 46	7 15 1 47		19 37 1 40			40 18 17		7 17
W19 T 20	19 25 19 39		5 20 9 0 20 36	0 30 26 53 3 53 0 37 26 42 3 44		19 25 0 46 19 23 0 46	7 13 1 47 7 12 1 47		19 37 1 40 19 37 1 40		22 35 22 22 35 22			7 18 7 19
F 21	19 52	9 35 5 15		0 43 26 31 3 34			7 11 1 47			9 46 11 54				7 19
S 22	20 6	3 47 5	1 21 28	0 49 26 19 3 23	18 54 1 35	19 18 0 46	7 10 1 48	10 39 0 32	19 36 1 40	9 45 11 54			12 2	7 20
S 23	20 18	2n10 4 30	21 52	0 55 26 6 3 12	18 40 1 33	19 16 0 46	7 8 1 48	10 40 0 32	19 36 1 40	9 45 11 54	22 35 22	38 18 7	12 2	7 21
M24	20 31	7 58 3 43	3 22 15	1 1 25 52 3 0	18 27 1 32	19 13 0 46	7 7 1 48	10 41 0 32	19 35 1 40	9 45 11 54	22 35 22	38 18 5	12 1	7 21
T 25			4 22 37		18 13 1 31		7 6 1 48		19 35 1 40	9 45 11 54				7 22
	20 54				17 59 1 30		7 5 1 49				22 34 22			7 23
T 27 F 28	21 6 21 17		5 23 17 6 23 36	1 18 25 5 2 22 1 24 24 48 2 8			7 4 1 49 7 3 1 49		19 34 1 40 19 34 1 40	9 45 11 54 9 45 11 54				7 23 7 24
_	21 17		3 23 53		17 16 1 26				19 34 1 40	9 44 11 54				7 25
														7 s25
S 30	21 s37	25n 8 2n54	4 24s 9	1 s34 24 s12 1 s39	17s 1 1s25	18 s 58 0 s 45	7n 1 1n50	10 s48 0n32	19n34 1 s40	9n44 11s54	22n34 22	n36 17n53	11n59	7 s2

Julian Day Number = 2411672.5, Delta T = -4.05 sec Ecliptic obliquity =  $23^{\circ}27'15$ , Nutation = -0°00'18, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}12'57$ , Lahiri =  $22^{\circ}19'57$ 

DECEMBER 1890 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	24	ħ	)ţ(	¥	Р	R	ດ	Ç	ķ	Day
M 1	4 39 12	8 <b>x</b> <sup>7</sup> 46'53	29959	16 <b>×</b> <sup>7</sup> 28	13°R57	18≈ 2	8 <b>≈</b> 21	16 <b>m</b> 32	29 <b>Ω</b> 32	5°R18	6°R52	14 <b>∏</b> 41	14 <b>I</b> I51	24 <b>Ω</b> 40	4°R16	M 1
T 2	4 43 9	9°47'44	11Ω59	18° 1	13 <b>7</b> 37	18°46	8°31	16°35	29°35	5 <b>Ⅱ</b> 17	6 <b>Ⅱ</b> 51	14°42	14°48	24°47	4Ω14	T 2
W 3	4 47 5	10°48'36	23°52	19°34	12°45	19°31	8°42	16°38	29°39	5°15	6°49	14°42	14°45	24°53	4°12	W 3
T 4	4 51 2	11°49'30	5 mp 44	21° 7	12° 9	20°16	8°53	16°41	29°42	5°13	6°48	14°43	14°42	25° 0	4°11	T 4
F 5	4 54 59	12°50'25	17°39	22°40	11°32	21° 0	9° 3	16°43	29°45	5°12	6°47	14°R43	14°38	25° 7	4° 9	F 5
S 6	4 58 55	13°51'21	29°43	24°13	10°56	21°45	9°14	16°45	29°48	5°10	6°46	14°42	14°35	25°14	4° 7	S 6
S 7	5 2 52	14°52'18	11 <b>≏</b> 59	25°46	10°20	22°30	9°25	16°48	29°51	5° 8	6°45	14°D42	14°32	25°20	4° 5	S 7
M 8	5 6 48	15°53'17	24°32	27°19	9°45	23°14	9°36	16°50	29°53	5° 7	6°44	14°43	14°29	25°27	4° 3	M 8
T 9	5 10 45	16°54'16	7 <b>M</b> 25	28°52	9°11	23°59	9°48	16°52	29°56	5° 5	6°43	14°43	14°26	25°34	4° 1	T 9
W10	5 14 41	17°55'17	20°39	0 <b>궁</b> 25	8°38	24°44	9°59	16°54	29°59	5° 3	6°41	14°43	14°23	25°40	3°58	W10
T 11	5 18 38	18°56'19	4 <b>₹</b> 16	1°57	8° 7	25°29	10°10	16°56	OM 2	5° 2	6°40	14°43	14°19	25°47	3°56	T 11
F 12	5 22 34	19°57'22	18°13	3°30	7°37	26°14	10°22	16°58	0° 5	5° 0	6°39	14°R43	14°16	25°54	3°54	F 12
S 13	5 26 31	20°58'25	2 <b>る</b> 27	5° 2	7° 8	26°59	10°33	16°59	0° 8	4°58	6°38	14°43	14°13	26° 1	3°51	S 13
S 14	5 30 28	21°59'30	16°54	6°33	6°42	27°43	10°45	17° 1	0°10	4°57	6°37	14°43	14°10	26° 7	3°48	S 14
M15	5 34 24	23° 0'35	1≈27	8° 4	6°18	28°28	10°57	17° 2	0°13	4°55	6°36	14°42	14° 7	26°14	3°46	M15
T 16	5 38 21	24° 1'40	16° 0	9°35	5°56	29°13	11° 9	17° 4	0°15	4°54	6°35	14°40	14° 4	26°21	3°43	T 16
W17	5 42 17	25° 2'45	0 <b>∺</b> 29	11° 5	5°36	29°58	11°21	17° 5	0°18	4°52	6°34	14°39	14° 0	26°27	3°40	W17
T 18	5 46 14	26° 3'51	14°48	12°35	5°18	0 <b>)</b> 43	11°33	17° 6	0°21	4°50	6°33	14°39	13°57	26°34	3°37	T 18
F 19	5 50 10	27° 4'57	28°55	14° 3	5° 3	1°28	11°45	17° 7	0°23	4°49	6°32	14°D39	13°54	26°41	3°34	F 19
S 20	5 54 7	28° 6'04	12 <b>Y</b> 49	15°30	4°50	2°13	11°57	17° 8	0°26	4°47	6°31	14°39	13°51	26°48	3°31	S 20
S 21	5 58 4	29° 7'10	26°28	16°56	4°40	2°58	12° 9	17° 9	0°28	4°46	6°30	14°40	13°48	26°54	3°28	S 21
M22	6 2 0	0중 8'17	9 <b>8</b> 53	18°20	4°32	3°43	12°22	17° 9	0°30	4°44	6°29	14°41	13°44	27° 1	3°24	M22
T 23	6 5 5 7	1° 9'24	23° 4	19°43	4°27	4°28	12°34	17°10	0°33	4°43	6°28	14°42	13°41	27° 8	3°21	T 23
W24	6 9 53	2°10'31	6 <b>I</b> I 2	21° 3	4°24	5°12	12°47	17°10	0°35	4°41	6°26	14°43	13°38	27°14	3°18	W24
T 25	6 13 50	3°11'38	18°48	22°20	4°D23	5°57	12°59	17°11	0°37	4°40	6°25	14°R43	13°35	27°21	3°14	T 25
F 26	6 17 46	4°12'46	19523	23°34	4°25	6°42	13°12	17°11	0°39	4°39	6°24	14°43	13°32	27°28	3°11	F 26
S 27	6 21 43	5°13'54	13°46	24°45	4°30	7°27	13°25	17°11	0°41	4°37	6°24	14°41	13°29	27°35	3° 7	S 27
S 28	6 25 39	6°15'02	25°59	25°51	4°37	8°12	13°37	17°R11	0°44	4°36	6°23	14°38	13°25	27°41	3° 3	S 28
M29	6 29 36	7°16'10	8 <b>N</b> 3	26°52	4°46	8°57	13°50	17°11	0°46	4°34	6°22	14°34	13°22	27°48	3° 0	M29
T 30	6 33 33	8°17'19	20° 0	27°47	4°57	9°42	14° 3	17°11	0°48	4°33	6°21	14°30	13°19	27°55	2°56	T 30
W31	6 37 29	9 <b>ට</b> 18'28	1 <b>m</b> 53	28 <b>궁</b> 35	5 <b>√</b> 11	10 <b>∺</b> 27	14≈16	17 <b>m</b> )11	0 <b>M</b> .50	4 <b>Ⅱ</b> 32	6 <b>Ⅱ</b> 20	14∏26	13 <b>II</b> 16	28 <b>N</b> 2	2 <b>Ω</b> 52	W31

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M 1 T 2	21 s47 21 56	21 29 4 2		1 43 23	34 1 9	16 31	1 s24 1 23	18 52	0 s45 0 45	7n 0 6 59	1 50	10 s49 10 50	0 32	19 33	1 s40 1 40	9n44 11 s54 9 44 11 53	22 35	22 35	17 49	11 58	7 s26 7 27
W 3 T 4 F 5	22 5 22 13 22 21	14 16 5 13	7 24 50 3 25 1 7 25 10	1 52 22	54 0 39	16 16 16 1 15 46	1 22 1 21 1 19	18 50 18 47 18 44	0 45 0 45 0 45	6 58 6 58 6 57	1 50 1 51 1 51	10 52	0 32 0 32 0 32	19 32	1 40 1 40 1 40	9 44 11 53 9 44 11 53 9 44 11 53	22 35	22 35	17 45	11 58	7 27 7 28 7 29
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T 11 F 12 S 13	23 0 23 4 23 9	23 15 0s19	25 39 25 38 7 25 36	2 12 20 2 14 20 2 15 19	13 1 23	14 10 13 54 13 38	1 11	18 26 18 23 18 19	0 45 0 45 0 45	6 53 6 53 6 52		-		19 30	1 40 1 40 1 40	9 43 11 53 9 43 11 53 9 43 11 53	22 35	22 32	17 29	11 57	7 32 7 33 7 33
S 14 M15 T 16 W17 T 18 F 19 S 20	23 22	23 36 3 5 20 28 4 38 16 5 5 10 51 5 16 5 7 5		2 16 19 2 16 19 2 15 18 2 14 18	20 2 4 4 2 17 48 2 29 34 2 41 20 2 52	13 5	1 9 1 8 1 7 1 6 1 5 1 4 1 2	18 13 18 10	0 45 0 45 0 45 0 45 0 45 0 45 0 45	6 52 6 52 6 51 6 51 6 51 6 51 6 51	1 53 1 53 1 54 1 54 1 54 1 55 1 55	11 3 11 4 11 5 11 6 11 7	0 32 0 32 0 32 0 32 0 32 0 32 0 32	19 29 19 29 19 29 19 29 19 28	1 40 1 40 1 40 1 40 1 40 1 40 1 40	9 43 11 53 9 43 11 52 9 42 11 52	22 35 22 34 22 34 22 34 22 34	22 30 22 30 22 30 22 29 22 29	17 23 17 21 17 19 17 17 17 15	11 57 11 57 11 57 11 57 11 58	7 34 7 35 7 35 7 36 7 36 7 37 7 37
T 25	23 25	11 55 3 16 40 1 5 20 33 0 48 23 21 0n2 24 57 1 3	3 23 39 3 23 20	2 2 17 1 57 17 1 51 17 1 45 17 1 38 17	45 3 22 35 3 31 26 3 39 19 3 47 12 3 54	11 23 11 5 10 48 10 30 10 13 9 55 9 37	0 58 0 57 0 56	17 53 17 49 17 46 17 42 17 39 17 35 17 31	0 45 0 45 0 45 0 45 0 45 0 45 0 45	6 51 6 51 6 51 6 51 6 51 6 51 6 51	1 56 1 56 1 56	-	0 32 0 32 0 32	19 28 19 27 19 27 19 27	1 40 1 40 1 40 1 40 1 40 1 40 1 40	9 42 11 51	22 34 22 35 22 35 22 35 22 35	22 28 22 27 22 27 22 27 22 26	17 8 17 6 17 4 17 2 17 0	11 58 11 59 11 59 11 59 12 0	7 38 7 38 7 38 7 39 7 39 7 40 7 40
T 30		22 20 4 12 19 20 4 40	3 22 18 2 21 56 5 21 34 6 21 s12	1 10 16 0 58 16	57 4 13	9 20 9 2 8 44 8 s26	0 53 0 51	17 28 17 24 17 20 17s17	0 45 0 45 0 45 0 s45	6 52 6 52 6 52 6n53	1 57 1 58	11 14 11 14 11 15 11 s16	0 32 0 32	19 26 19 26 19 26 19n26	1 40 1 40 1 40 1 s40	9 42 11 51 9 42 11 51 9 42 11 50 9n42 11 s50	22 34 22 33	22 25 22 25	16 54 16 51	12 1 12 1	7 41 7 41 7 41 7 s42

Julian Day Number = 2411702.5, Delta T = -4.07 sec Ecliptic obliquity =  $23^{\circ}27'14$ , Nutation = - $0^{\circ}00'17$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $23^{\circ}13'01$ , Lahiri =  $22^{\circ}20'01$