

## Local sun and moon times for thirty-three days at Saratoga, 1777.

Our standard time thus runs thirteen minutes behind local solar time. Our modern daylight time runs forty-seven minutes ahead of local time. Both armies were constrained by visibility depending upon daylight, phases of the moon, and cloud cover.

				Sunrise	Sunset	Moonrise	Moonset	Moon
Day and Date				LOCAL	LOCAL	LOCAL	LOCAL	Phase
1	Monday	15-Sep	1777	6:05 AM	6:19 PM	6:08 PM	3:24 AM	waxing gibbous moon
2	Tuesday	16-Sep	1777	6:06 AM	6:17 PM	6:41 PM	4:38 AM	waxing gibbous moon
3	Wednesday	17-Sep	1777	6:07 AM	6:15 PM	7:12 PM	5:53 AM	full moon
4	Thursday	18-Sep	1777	6:09 AM	6:13 PM	7:42 PM	7:09 AM	full moon
5	Friday	19-Sep	1777	6:10 AM	6:12 PM	8:14 PM	8:25 AM	full moon
6	Saturday	20-Sep	1777	6:11 AM	6:10 PM	8:48 PM	9:42 AM	waning gibbous moon
7	Sunday	21-Sep	1777	6:12 AM	6:08 PM	9:26 PM	10:57 AM	waning gibbous moon
8	Monday	22-Sep	1777	6:13 AM	6:06 PM	10:09 PM	12:10 PM	waning gibbous moon
9	Tuesday	23-Sep	1777	6:14 AM	6:04 PM	10:59 PM	1:18 PM	half moon
10	Wednesday	24-Sep	1777	6:15 AM	6:03 PM	11:55 PM	2:19 PM	half moon
11	Thursday	25-Sep	1777	6:16 AM	6:01 PM	12:23 AM	3:11 PM	half moon
12	Friday	26-Sep	1777	6:17 AM	5:59 PM	12:55 AM	3:55 PM	waning crescent moon
13	Saturday	27-Sep	1777	6:19 AM	5:57 PM	1:59 AM	4:32 PM	waning crescent moon
14	Sunday	28-Sep	1777	6:20 AM	5:55 PM	3:03 AM	5:03 PM	dark of the moon
15	Monday	29-Sep	1777	6:21 AM	5:54 PM	4:06 AM	5:30 PM	dark of the moon
16	Tuesday	30-Sep	1777	6:22 AM	5:52 PM	5:08 AM	5:55 PM	dark of the moon
17	Wednesday	1-Oct	1777	6:23 AM	5:50 PM	6:10 AM	6:19 PM	new moon
18	Thursday	2-Oct	1777	6:24 AM	5:48 PM	7:10 AM	6:43 PM	new moon
19	Friday	3-Oct	1777	6:25 AM	5:47 PM	8:09 AM	7:07 PM	new moon
20	Saturday	4-Oct	1777	6:27 AM	5:45 PM	9:09 AM	7:33 PM	waxing crescent moon
21	Sunday	5-Oct	1777	6:28 AM	5:43 PM	10:09 AM	8:02 PM	waxing crescent moon
22	Monday	6-Oct	1777	6:29 AM	5:41 PM	11:08 AM	8:36 PM	waxing crescent moon
23	Tuesday	7-Oct	1777	6:30 AM	5:40 PM	12:07 PM	9:15 PM	waxing crescent moon
24	Wednesday	8-Oct	1777	6:31 AM	5:38 PM	1:03 PM	10:00 PM	waxing crescent moon
25	Thursday	9-Oct	1777	6:32 AM	5:36 PM	1:55 PM	10:54 PM	waxing crescent moon
26	Friday	10-Oct	1777	6:34 AM	5:34 PM	2:43 PM	11:54 PM	half moon
27	Saturday	11-Oct	1777	6:35 AM	5:33 PM	3:26 PM	12:45 AM	half moon
28	Sunday	12-Oct	1777	6:36 AM	5:31 PM	4:03 PM	1:00 AM	half moon
29	Monday	13-Oct	1777	6:37 AM	5:29 PM	4:37 PM	2:11 AM	waxing gibbous
30	Tuesday	14-Oct	1777	6:38 AM	5:28 PM	5:08 PM	3:24 AM	waxing gibbous
31	Wednesday	15-Oct	1777	6:40 AM	5:26 PM	5:38 PM	4:41 AM	waxing gibbous
32	Thursday	16-Oct	1777	6:41 AM	5:25 PM	6:09 PM	5:58 AM	full moon
33	Friday	17-Oct	1777	6:42 AM	5:23 PM	6:43 PM	6:26 AM	full moon