

NOAA Global Monitoring Laboratory

Global Radiation Group

<https://gml.noaa.gov/grad/solcalc>

Sunrise Table for 2020

Location: Latitude 41.41000 Longitude -81.85000

Time Zone Offset: America/New_York -4.0

All times are in local time. Cells with light green color indicate when daylight saving time is in effect.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	07:54	07:39	07:01	07:10	06:24	05:56	05:58	06:23	06:54	07:25	07:00	07:35
2	07:54	07:38	06:59	07:08	06:23	05:56	05:58	06:24	06:55	07:26	07:01	07:36
3	07:54	07:37	06:58	07:06	06:21	05:55	05:59	06:25	06:56	07:27	07:02	07:37
4	07:54	07:36	06:56	07:05	06:20	05:55	06:00	06:26	06:57	07:28	07:03	07:38
5	07:54	07:35	06:55	07:03	06:19	05:55	06:00	06:27	06:58	07:29	07:04	07:39
6	07:54	07:34	06:53	07:01	06:18	05:54	06:01	06:28	06:59	07:30	07:06	07:40
7	07:54	07:33	06:51	07:00	06:17	05:54	06:01	06:29	07:00	07:31	07:07	07:40
8	07:53	07:32	07:50	06:58	06:15	05:54	06:02	06:30	07:01	07:32	07:08	07:41
9	07:53	07:31	07:48	06:56	06:14	05:54	06:03	06:31	07:02	07:33	07:09	07:42
10	07:53	07:29	07:47	06:55	06:13	05:53	06:04	06:32	07:03	07:34	07:10	07:43
11	07:53	07:28	07:45	06:53	06:12	05:53	06:04	06:33	07:04	07:35	07:12	07:44
12	07:53	07:27	07:43	06:52	06:11	05:53	06:05	06:34	07:05	07:37	07:13	07:45
13	07:52	07:26	07:42	06:50	06:10	05:53	06:06	06:35	07:06	07:38	07:14	07:45
14	07:52	07:24	07:40	06:48	06:09	05:53	06:07	06:36	07:07	07:39	07:15	07:46
15	07:51	07:23	07:38	06:47	06:08	05:53	06:07	06:37	07:08	07:40	07:16	07:47
16	07:51	07:22	07:37	06:45	06:07	05:53	06:08	06:38	07:09	07:41	07:18	07:48
17	07:51	07:20	07:35	06:44	06:06	05:53	06:09	06:39	07:10	07:42	07:19	07:48
18	07:50	07:19	07:33	06:42	06:05	05:54	06:10	06:40	07:11	07:43	07:20	07:49
19	07:49	07:17	07:31	06:41	06:04	05:54	06:11	06:41	07:12	07:44	07:21	07:49
20	07:49	07:16	07:30	06:39	06:04	05:54	06:12	06:42	07:13	07:45	07:22	07:50
21	07:48	07:15	07:28	06:38	06:03	05:54	06:12	06:43	07:14	07:47	07:24	07:50
22	07:48	07:13	07:26	06:36	06:02	05:54	06:13	06:44	07:15	07:48	07:25	07:51
23	07:47	07:12	07:25	06:35	06:01	05:55	06:14	06:45	07:16	07:49	07:26	07:51
24	07:46	07:10	07:23	06:33	06:01	05:55	06:15	06:46	07:17	07:50	07:27	07:52
25	07:45	07:09	07:21	06:32	06:00	05:55	06:16	06:47	07:18	07:51	07:28	07:52
26	07:45	07:07	07:20	06:31	05:59	05:56	06:17	06:48	07:20	07:52	07:29	07:52
27	07:44	07:06	07:18	06:29	05:59	05:56	06:18	06:49	07:21	07:54	07:30	07:53
28	07:43	07:04	07:16	06:28	05:58	05:56	06:19	06:50	07:22	07:55	07:31	07:53
29	07:42	07:03	07:15	06:27	05:57	05:57	06:20	06:51	07:23	07:56	07:33	07:53
30	07:41		07:13	06:25	05:57	05:57	06:21	06:52	07:24	07:57	07:34	07:53
31	07:40		07:11		05:56		06:22	06:53		07:58		07:54

Sunset Table for 2020

Location: Latitude 41.41000 Longitude -81.85000

Time Zone Offset: America/New_York -4.0

All times are in local time. Cells with light green color indicate when daylight saving time is in effect.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	17:08	17:43	18:19	19:53	20:26	20:55	21:05	20:44	19:59	19:08	17:22	16:58
2	17:09	17:44	18:20	19:54	20:27	20:56	21:05	20:43	19:58	19:07	17:21	16:58
3	17:10	17:46	18:21	19:55	20:28	20:56	21:04	20:42	19:56	19:05	17:19	16:58
4	17:11	17:47	18:22	19:56	20:29	20:57	21:04	20:40	19:54	19:03	17:18	16:58
5	17:12	17:48	18:23	19:58	20:30	20:58	21:04	20:39	19:53	19:02	17:17	16:58
6	17:13	17:49	18:24	19:59	20:31	20:58	21:03	20:38	19:51	19:00	17:16	16:58
7	17:14	17:51	18:26	20:00	20:32	20:59	21:03	20:37	19:49	18:58	17:15	16:58
8	17:15	17:52	19:27	20:01	20:33	21:00	21:03	20:35	19:48	18:57	17:14	16:58
9	17:16	17:53	19:28	20:02	20:34	21:00	21:02	20:34	19:46	18:55	17:13	16:58
10	17:17	17:54	19:29	20:03	20:35	21:01	21:02	20:33	19:44	18:53	17:12	16:58
11	17:18	17:56	19:30	20:04	20:36	21:01	21:01	20:31	19:43	18:52	17:11	16:58
12	17:19	17:57	19:31	20:05	20:37	21:02	21:01	20:30	19:41	18:50	17:10	16:58
13	17:20	17:58	19:32	20:06	20:38	21:02	21:00	20:29	19:39	18:49	17:09	16:58
14	17:21	17:59	19:34	20:07	20:39	21:03	21:00	20:27	19:37	18:47	17:08	16:59
15	17:22	18:01	19:35	20:08	20:40	21:03	20:59	20:26	19:36	18:46	17:07	16:59
16	17:23	18:02	19:36	20:09	20:41	21:03	20:58	20:24	19:34	18:44	17:06	16:59
17	17:25	18:03	19:37	20:10	20:42	21:04	20:58	20:23	19:32	18:42	17:06	16:59
18	17:26	18:04	19:38	20:12	20:43	21:04	20:57	20:21	19:31	18:41	17:05	17:00
19	17:27	18:06	19:39	20:13	20:44	21:04	20:56	20:20	19:29	18:39	17:04	17:00
20	17:28	18:07	19:40	20:14	20:45	21:04	20:55	20:18	19:27	18:38	17:04	17:01
21	17:29	18:08	19:41	20:15	20:46	21:05	20:55	20:17	19:25	18:37	17:03	17:01
22	17:31	18:09	19:42	20:16	20:47	21:05	20:54	20:15	19:24	18:35	17:02	17:02
23	17:32	18:10	19:43	20:17	20:48	21:05	20:53	20:14	19:22	18:34	17:02	17:02
24	17:33	18:12	19:45	20:18	20:49	21:05	20:52	20:12	19:20	18:32	17:01	17:03
25	17:34	18:13	19:46	20:19	20:49	21:05	20:51	20:11	19:19	18:31	17:01	17:04
26	17:35	18:14	19:47	20:20	20:50	21:05	20:50	20:09	19:17	18:29	17:00	17:04
27	17:37	18:15	19:48	20:21	20:51	21:05	20:49	20:08	19:15	18:28	17:00	17:05
28	17:38	18:16	19:49	20:22	20:52	21:05	20:48	20:06	19:13	18:27	16:59	17:06
29	17:39	18:18	19:50	20:23	20:53	21:05	20:47	20:04	19:12	18:25	16:59	17:06
30	17:41		19:51	20:25	20:54	21:05	20:46	20:03	19:10	18:24	16:59	17:07
31	17:42		19:52		20:54		20:45	20:01		18:23		17:08

Solar Noon Table for 2020

Location: Latitude 41.41000 Longitude -81.85000

Time Zone Offset: America/New_York -4.0

All times are in local time. Cells with light green color indicate when daylight saving time is in effect.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	12:30:36	12:40:53	12:39:41	13:31:11	13:24:29	13:25:17	13:31:19	13:33:44	13:27:21	13:17:01	12:10:56	12:16:30
2	12:31:04	12:41:01	12:39:29	13:30:53	13:24:22	13:25:27	13:31:31	13:33:40	13:27:02	13:16:42	12:10:55	12:16:53
3	12:31:32	12:41:08	12:39:16	13:30:36	13:24:16	13:25:36	13:31:42	13:33:35	13:26:43	13:16:23	12:10:55	12:17:17
4	12:32:00	12:41:15	12:39:03	13:30:18	13:24:10	13:25:47	13:31:53	13:33:30	13:26:23	13:16:04	12:10:56	12:17:41
5	12:32:27	12:41:21	12:38:49	13:30:01	13:24:05	13:25:57	13:32:03	13:33:24	13:26:03	13:15:46	12:10:57	12:18:06
6	12:32:54	12:41:26	12:38:35	13:29:44	13:24:01	13:26:08	13:32:13	13:33:17	13:25:43	13:15:28	12:11:00	12:18:31
7	12:33:20	12:41:30	12:38:21	13:29:27	13:23:57	13:26:19	13:32:23	13:33:10	13:25:22	13:15:10	12:11:03	12:18:57
8	12:33:46	12:41:33	13:38:06	13:29:11	13:23:53	13:26:31	13:32:32	13:33:02	13:25:02	13:14:53	12:11:07	12:19:23
9	12:34:11	12:41:35	13:37:51	13:28:55	13:23:51	13:26:42	13:32:41	13:32:53	13:24:41	13:14:37	12:11:12	12:19:50
10	12:34:36	12:41:37	13:37:36	13:28:39	13:23:48	13:26:54	13:32:50	13:32:44	13:24:20	13:14:21	12:11:18	12:20:17
11	12:35:00	12:41:38	13:37:20	13:28:23	13:23:47	13:27:07	13:32:58	13:32:35	13:23:59	13:14:05	12:11:24	12:20:45
12	12:35:24	12:41:38	13:37:04	13:28:07	13:23:46	13:27:19	13:33:05	13:32:25	13:23:38	13:13:50	12:11:32	12:21:13
13	12:35:47	12:41:37	13:36:47	13:27:52	13:23:45	13:27:31	13:33:12	13:32:14	13:23:16	13:13:35	12:11:40	12:21:41
14	12:36:10	12:41:36	13:36:31	13:27:37	13:23:45	13:27:44	13:33:19	13:32:03	13:22:55	13:13:21	12:11:49	12:22:09
15	12:36:32	12:41:34	13:36:14	13:27:23	13:23:46	13:27:57	13:33:25	13:31:51	13:22:34	13:13:07	12:12:00	12:22:38
16	12:36:53	12:41:31	13:35:57	13:27:09	13:23:47	13:28:10	13:33:31	13:31:39	13:22:12	13:12:54	12:12:10	12:23:07
17	12:37:14	12:41:27	13:35:40	13:26:55	13:23:49	13:28:23	13:33:36	13:31:26	13:21:51	13:12:42	12:12:22	12:23:36
18	12:37:34	12:41:23	13:35:22	13:26:42	13:23:51	13:28:36	13:33:40	13:31:13	13:21:30	13:12:30	12:12:35	12:24:06
19	12:37:53	12:41:18	13:35:05	13:26:29	13:23:54	13:28:49	13:33:45	13:30:59	13:21:08	13:12:18	12:12:48	12:24:35
20	12:38:11	12:41:12	13:34:47	13:26:16	13:23:57	13:29:02	13:33:48	13:30:45	13:20:47	13:12:08	12:13:03	12:25:05
21	12:38:29	12:41:06	13:34:29	13:26:04	13:24:01	13:29:15	13:33:51	13:30:30	13:20:26	13:11:58	12:13:18	12:25:35
22	12:38:46	12:40:59	13:34:11	13:25:52	13:24:06	13:29:28	13:33:53	13:30:15	13:20:04	13:11:49	12:13:34	12:26:05
23	12:39:02	12:40:51	13:33:53	13:25:41	13:24:11	13:29:41	13:33:55	13:29:59	13:19:43	13:11:40	12:13:50	12:26:34
24	12:39:18	12:40:43	13:33:35	13:25:30	13:24:16	13:29:54	13:33:56	13:29:43	13:19:22	13:11:32	12:14:08	12:27:04
25	12:39:32	12:40:34	13:33:17	13:25:20	13:24:22	13:30:07	13:33:57	13:29:27	13:19:02	13:11:25	12:14:26	12:27:34
26	12:39:46	12:40:24	13:32:59	13:25:10	13:24:29	13:30:19	13:33:57	13:29:10	13:18:41	13:11:18	12:14:45	12:28:03
27	12:39:59	12:40:14	13:32:41	13:25:01	13:24:36	13:30:32	13:33:56	13:28:53	13:18:20	13:11:13	12:15:05	12:28:33
28	12:40:12	12:40:04	13:32:23	13:24:52	13:24:43	13:30:44	13:33:55	13:28:35	13:18:00	13:11:08	12:15:25	12:29:02
29	12:40:23	12:39:53	13:32:05	13:24:44	13:24:51	13:30:56	13:33:53	13:28:17	13:17:40	13:11:04	12:15:46	12:29:31
30	12:40:34		13:31:47	13:24:36	13:24:59	13:31:08	13:33:51	13:27:59	13:17:20	13:11:00	12:16:08	12:30:00
31	12:40:44		13:31:29		13:25:08		13:33:48	13:27:40		13:10:58		12:30:29