Instructions

This instruction will show you how to find the accurate data for 'Average Day-Light', 'Average Temperature', and 'Average Precipitation' of each location for input.

Average Day-Light

- Visit the <u>Astronomical Applications Department</u>
- (1) Pick out the year (e.g. 2025)
- Make sure the type is 'daylight'
- You can either manually input the location's long. & lat. $\ensuremath{\text{OR}}$
- (2) You can click on 'Need USA Location' and input the city
 OR nearest major city to your location
- Click 'Import Data'
- Click on 'Get Data'
- (3) When you get the the result page, you can copy the results (it's in EXCEL/ GOOGLE SHEET format) and paste it in EXCEL/GOOGLE SHEET and calculate the average daylight from June to September
- You got the results for AVERAGE DAY-LIGHT!



Astronomical Applications Department



Main

Data Services

Information Center

Publications

Software

About Us

Site Map

Data Services

Rise/Set/Transit/Twilight Data

Complete Sun and Moon Data for One Day

Table of Sunrise/Sunset, Moonrise/Moonset, or Twilight Times for an Entire Year

Rise/Set/Transit Times for Major Solar System Objects and Bright Stars

Duration of Daylight and Darkness Table for One Year

Phases of the Moor

Dates of Primary Phases of the Moon

Fraction of the Moon Illuminated

Eclipses and Transits

Eclipses Online Portal

Eclipses of the Sun and Moon

2017 August 21 Total Solar Eclipse

2023 October 14 Annular Solar Eclipse

2024 April 8 Total Solar Eclipse

Solar Eclipse Computer
Lunar Eclipse Computer

Transits of Mercury and Venus

Transit Computer

Positions of Selected Celestial Objects

Altitude and Azimuth of the Sun or Moon During One Day

Topocentric Configuration of

Duration of Daylight/Darkness Table for One Year

This data services provides a method for obtaining a table of the duration of daylight or darkness for any year between 1700 and 2100.

Use the following steps to create a table for any location worldwide:

- Enter the year (1700 2100) for which the table is desired.
- Select the table type (daylight or darkness) from the drop-down list.
- Specify the location of interest using the fields provided on the form. Use the buttons to find coordinates of cities or towns in the U.S. or its territories, or to convert between Degrees-Minutes-Seconds (DMS) and Decimal Degrees
- Click the "Get Data" button at the end of the form to compute the table. The table will provide the data
 requested in hours:minutes format.

Be sure to read the Notes section for an explanation of the items in the table.

Specify year, type of table, and place:

Year

For example: 1986

2024

Type of table

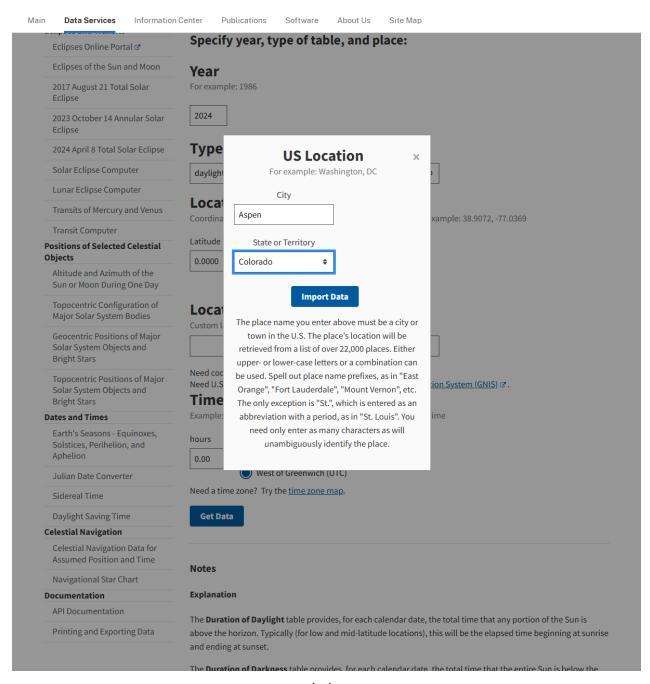
daylight \$

Location

Coordinates in decimal degrees, North and East are positive. For example: 38.9072, -77.0369

Latitude	Longitude	Need USA Location?)
0.0000	0.0000	Prefer DMS Input?	2

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Data Services Information

Publications

Software

About Us

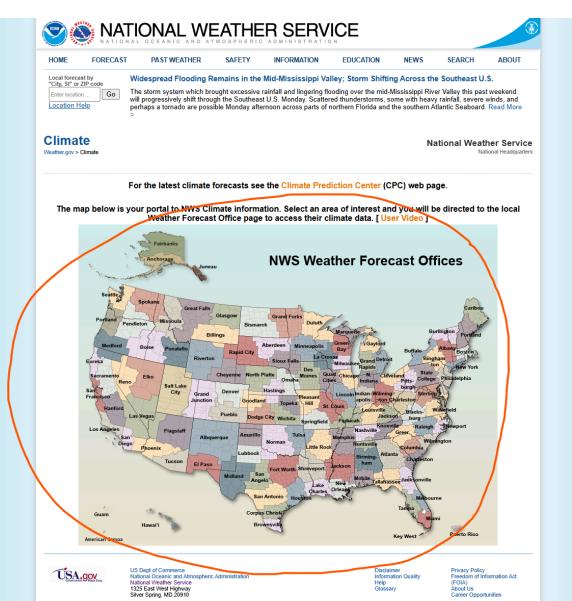
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Duration of Daylight/Darkness Table for One Year

Duration of Daylight for the Year 2024 Aspen, CO N 39° 11', W 106° 50' Zone: 7.0 hours West of Greenwich													
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
1	09:28	10:13	11:21	12:41	13:53	14:45	14:52	14:10	13:00	11:45	10:30	09:37	
2	09:29	10:15	11:24	12:43	13:55	14:46	14:52	14:08	12:58	11:42	10:28	09:35	
3	09:30	10:18	11:27	12:46	13:57	14:47	14:51	14:06	12:55	11:40	10:25	09:34	
4	09:31	10:20	11:29	12:48	13:59	14:48	14:50	14:04	12:53	11:37	10:23	09:33	
5	09:31	10:22	11:32	12:51	14:01	14:49	14:49	14:02	12:50	11:35	10:21	09:32	
6	09:32	10:24	11:34	12:54	14:03	14:50	14:48	14:00	12:48	11:32	10:19	09:31	
7	09:33	10:26	11:37	12:56	14:05	14:51	14:47	13:58	12:46	11:30	10:17	09:30	
8	09:34	10:28	11:39	12:59	14:07	14:51	14:46	13:56	12:43	11:27	10:15	09:30	
9	09:35	10:31	11:42	13:01	14:09	14:52	14:45	13:54	12:40	11:25	10:13	09:29	
10	09:37	10:33	11:44	13:04	14:11	14:53	14:44	13:52	12:38	11:22	10:11	09:28	
11	09:38	10:35	11:47	13:06	14:13	14:53	14:43	13:49	12:35	11:20	10:09	09:28	
12	09:39	10:38	11:50	13:08	14:15	14:54	14:42	13:47	12:33	11:17	10:07	09:27	
13	09:40	10:40	11:52	13:11	14:17	14:54	14:41	13:45	12:30	11:15	10:05	09:27	
14	09:42	10:42	11:55	13:13	14:19	14:55	14:40	13:43	12:28	11:12	10:03	09:26	
15	09:43	10:45	11:57	13:16	14:21	14:55	14:38	13:41	12:25	11:10	10:01	09:26	
16	09:45	10:47	12:00	13:18	14:22	14:55	14:37	13:38	12:23	11:07	09:59	09:25	
17	09:46	10:49	12:02	13:21	14:24	14:55	14:36	13:36	12:20	11:05	09:57	09:25	
18	09:48	10:52	12:05	13:23	14:26	14:56	14:34	13:34	12:18	11:03	09:56	09:25	
19	09:49	10:54	12:08	13:25	14:28	14:56	14:33	13:31	12:15	11:00	09:54	09:25	
20	09:51	10:57	12:10	13:28	14:29	14:56	14:31	13:29	12:13	10:58	09:52	09:25	
21	09:53	10:59	12:13	13:30	14:31	14:56	14:30	13:27	12:10	10:55	09:51	09:25	
22	09:54	11:02	12:15	13:33	14:32	14:56	14:28	13:24	12:08	10:53	09:49	09:25	
23	09:56	11:04	12:18	13:35	14:34	14:55	14:26	13:22	12:05	10:51	09:47	09:25	
24	09:58	11:06	12:20	13:37	14:35	14:55	14:25	13:20	12:03	10:48	09:46	09:25	

AVERAGE TEMPERATURE - AVERAGE PRECIPITATION:

- Visit the NOAA National Weather Service
- (1) Select the region on the Map
- (2) You got to the NOWData page
- You can select specific location within that region or you can click on 'View Map' to have better reference
- Make sure the 'Product' is 'Summarized Monthly Data'
- For option, you can select the range of year you wanted the data
- Under 'Variable' you can select between 'Average
 Temperature' or 'Precipitation'
- Click 'Go' to get the table
- (3) Each row of the table will represent a year
- Look for the year you wanted the data Copy and Paste the table data (in EXCEL/GOOGLE SHEET format) into EXCEL/GOOGLE SHEET and calculate the average from June to September.
- You got the 'AVERAGE TEMPERATURE' and/or 'AVERAGE PRECIPITATION'



Local forecast by
"City, St" or ZIP code
Enter location ... Go
Location Help

PAST WEATHER SAFETY INFORMATION EDUCATION NEWS SEARCH ABOUT

Widespread Flooding Remains in the Mid-Mississippi Valley; Storm Shifting Across the Southeast U.S.

The storm system which brought excessive rainfall and lingering flooding over the mid-Mississippi River Valley this past weekend will progressively shift through the Southeast U.S. Monday. Scattered thunderstorms, some with heavy rainfall, severe winds, and perhaps a tornado are possible Monday afternoon across parts of northern Florida and the southern Atlantic Seaboard. Read More

Climate

HOME

Weather gov > Grand Junction CO > Climate

FORECAST

Grand Junction, CO

Weather Forecast Offi

NOWData

Observed Weather

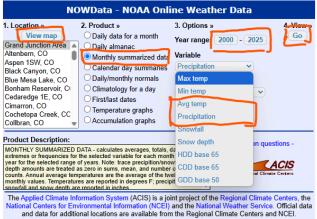
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Local Data/Records

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Climate

v > Grand Junction, CO > Climate

Grand Junction, CO

ABOUT

NOWData

Observed Weather

Climate Prediction and Variability

Local Data/Records

Climate Resources

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NOWData - NOAA Online Weather Data

	С						ition f nding,					ling.		ľ
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	11
2000	2.31	2.30	2.80	1.69	2.03	1.06	1.79	1.79	2.01	0.50	2.42	1.28	21.98	11
2001	M	M	М	2.58	2.74	1.60	2.30	2.97	2.12	1.03	2.40	1.30	M	1
2002	1.71	1.40	2.20	1.42	0.21	0.00	1.70	1.22	3.30	1.80	2.55	1.00	M	11
2003	0.55	M	2.97	2.47	2.91	1.35	0.49	0.90	2.70	0.50	3.00	2.30	M	1
2004	1.90	2.36	0.90	1.73	1.03	1.59	1.36	0.78	2.60	1.68	3.00	1.30	M	11
2005	M	1.98	M	2.48	1.29	1.76	1.84	2.12	2.65	3.51	2.40	2.69	M	1
2006	2.74	1.14	2.15	0.99	1.06	0.30	3.55	1.52	2.74	M	2.64	1.41	M	11
2007	1.93	2.11	1.85	1.78	2.03	0.87	3.73	1.20	2.74	2.95	0.46	5.28	26.93	1
2008	4.24	3.17	3.55	2.51	2.56	0.60	0.90	1.51	0.83	0.71	2.12	4.62	27.32	11
2009	2.85	1.27	2.63	2.83	2.54	1.47	2.06	1.06	1.42	1.76	1.37	1.90	23.16	11
2010	0.86	2.49	2.25	3.96	1.70	1.55	1.92	4.92	0.71	2.42	2.38	2.55	27.71	1
2011	1.84	2.75	2.89	6.39	2.47	0.81	3.16	0.85	0.92	1.97	1.71	0.76	26.52	11
2012	2.38	1.64	0.55	1.75	1.07	M	2.38	2.28	1.44	1.50	0.44	2.11	M	1
2013	1.23	1.67	1.83	3.99	2.40	0.12	2.40	2.07	4.27	2.09	2.11	2.17	26.35	11
2014	3.62	2.17	3.28	1.67	2.32	0.30	1.86	2.74	2.22	1.57	2.40	3.13	27.28	1
2015	0.34	1.60	2.44	1.85	4.69	1.07	3.29	1.81	1.22	2.00	1.80	2.59	24.70	П
2016	2.50	2.01	2.48	2.97	1.71	0.65	1.44	2.93	1.36	1.13	1.60	2.92	23.70	П
2017	4.22	1.60	1.85	2.00	2.51	0.28	2.29	1.72	1.73	2.85	0.81	1.02	22.88	1
2018	1.49	3.19	1.65	3.62	0.77	1.19	1.02	1.58	0.52	2.49	1.86	1.88	21.26	μ
2019	2.55	2.24	6.04	2.40	3.86	1.26	1.35	0.82	0.39	2.59	1.78	2.23	27.51	1
2020	1.77	2.47	1.83	2.38	1.45	1.46	1.17	1.13	1.53	1.03	1.76	1.85	19.83	1
2021	0.63	2.99	3.19	1.19	2.28	1.02	1.77	2.12	1.42	1.63	1.87	4.68	24.79	1
2022	1.45	2.23	2.43	1.78	2.14	0.71	1.95	3.21	1.04	2.73	1.98	2.27	23.92	1
2023	2.57	2.11	3.84	2.84	2.21	1.24	0.10	1.05	1.07	3.51	0.79	1.81	23.14	1.
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