

Calculation of Weather Days for Construction Projects

Executive Summary

The contractor may request an extension to the Contract Time through a change order for weather days that affected exterior work and delayed progress of the Work. Written notice of this delay must be provided to the Architect within twenty-one days after the end of the month in which the delay occurred. Calculating the number of weather days requires three things:

1. The number of days with precipitation over 0.1 inch for the specified month for the past five years
2. The average number of days with precipitation over 0.1 inch for the specified month in that five-year period
3. The number of days with precipitation over 0.1 inch for the specified month in the current year.

Subtract the average number of days from the current number of days for the specified month and the difference is the allowable number of days that can be requested to add to the Contract Time. If the number of days is less than the average for the specified month, then no time will be deducted from the Contract Time. See example below:

CALCULATION OF WEATHER DAYS FOR A GIVEN MONTH			
	Month	Year	# of Days of Precipitation
Past 5 Years	July	2019	5
	July	2020	11
	July	2021	10
	July	2022	5
	July	2023	9
Average # of Days of Precipitation in this Month			8
Current	July	2024	10
# of Days of Precipitation More Than the Monthly Average			2



How To Determine the Number of Weather Days

1. Go to the URL: <https://www.weather.gov> and click on the Tab “Past Weather” at the top of the page.

The screenshot shows the National Weather Service website. The browser address bar displays <https://www.weather.gov>. The website header includes the NWS logo and navigation tabs: HOME, FORECAST, PAST WEATHER (highlighted with a red arrow), SAFETY, INFORMATION, EDUCATION, NEWS, SEARCH, and ABOUT. Below the navigation, there is a local forecast section for "Ernesto Impacting Puerto Rico and USVI; Dangerous Heat Across the South; Severe Weather and Flooding for the Center of the Nation". A sidebar on the left offers a "Customize Your Weather.gov" section with a search box for "City, ST" and a "Get Weather" button. The main content area features a map of the United States with various weather alerts overlaid in different colors (orange, green, purple, red). A red arrow points to the "PAST WEATHER" tab.

2. Select the Area of the construction project.

The screenshot shows the NWS Climate website. The browser address bar displays <https://www.weather.gov/wrh/climate>. The page header includes "Climate" and "National Weather Service National Headquarters". The main content area contains the following text: "For the latest climate forecasts see the [Climate Prediction Center \(CPC\)](#) web page. The map below is your portal to NWS Climate information. Select an area of interest and you will be directed to the local Weather Forecast Office page to access their climate data. [[User Video](#)]". Below the text is a map titled "NWS Weather Forecast Offices" showing various offices across the United States. A red arrow points to the "Birmingham" office, which is highlighted with a yellow circle.



3. In the next Table, select the following information:
 - a. Location – closest to the project site
 - b. Product – Monthly summarized data
 - c. Options – Year Range (past 5 years); Variable – Precipitation; Summary – Number of Days; Threshold – ≥ 0.1

[NOWData](#) | [Observed Weather](#) | [Climate Prediction and Variability](#) | [Local Data/Records](#) | [Climate Resources](#)

Having trouble navigating this site? Please have a look at this [short video](#) for a quick tour.

If you have other questions, please send them to NOWdata@noaa.gov

NOWData - NOAA Online Weather Data

1. Location »

[View map](#)

- Birmingham Area
- Montgomery Area
- Alexander City, AL
- Aliceville L & D, AL
- Anniston Metro, AL
- Ashland 3 ENE, AL
- Ashland 5 SSW, AL
- Bankhead L & D, AL
- Bessemer 3WSW, AL
- Billingsley 3 Ne, AL

2. Product »

Daily data for a month

Daily almanac

Monthly summarized data

Calendar day summaries

Daily/monthly normals

Climatology for a day

First/last dates

Temperature graphs

Accumulation graphs

3. Options »

Year range: 2019 - 2024

Variable

Precipitation

Summary

Number of days

Threshold: \geq 0.1

4. View »

Go

Product Description:

MONTHLY SUMMARIZED DATA - calculates averages, totals, daily extremes or frequencies for the selected variable for each month of the year for the selected range of years. Note: trace precipitation/snowfall/snow depth amounts are treated as zero in sums, mean, and number of days counts. Annual average temperatures are the average of the twelve monthly values. Temperatures are reported in degrees F; precipitation, snowfall and snow depth are reported in inches.

- Common questions -

Powered by ACIS
NOAA Regional Climate Centers

The Applied Climate Information System (ACIS) is a joint project of the Regional Climate Centers, the National Centers for Environmental Information (NCEI) and the National Weather Service. Official data and data for additional locations are available from the Regional Climate Centers and NCEI.

d. View – Go

4. The Data Table will have the “# of Days of Precipitation” and “Average # of Days of Precipitation” for each month for the 5-year range

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NOWData - NOAA Online Weather Data [Enlarge results](#) [Print](#) [✕](#)

Monthly Number of Days Precipitation ≥ 0.1 for Montgomery Area, AL (ThreadEx)

Click column heading to sort ascending, click again to sort descending

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2019	8	5	4	5	5	10	5	6	0	9	6	7	70
2020	10	12	6	4	8	10	11	10	5	M	4	3	M
2021	7	9	9	3	5	13	10	10	7	6	3	8	90
2022	6	5	10	7	6	2	5	13	6	3	7	5	75
2023	8	6	5	9	4	10	9	4	3	2	6	3	69
2024	8	4	5	4	6	4	10	M	M	M	M	M	M
Mean	8	7	7	5	6	8	8	9	4	5	5	5	76
Max	10	12	10	9	8	13	11	13	7	9	7	8	90
	2020	2020	2022	2023	2020	2021	2020	2022	2021	2019	2022	2021	2021
Min	6	4	4	3	4	2	5	4	0	2	3	3	69
	2022	2024	2019	2021	2023	2022	2022	2023	2019	2023	2021	2023	2023

