

## Extreme weather

There has been extreme drought in Arizona, New Mexico, Colorado, Utah, Oklahoma, Texas, Kansas, Iowa, Nebraska, Wyoming, Oregon, Nevada, California, and Hawaii. There has been Too much rain and flooding in Michigan, along the Mississippi, and in coastal communities. Will our weather extremes only get worse?

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# THE DENVER POST

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## Denver weather: Record highs possible Sunday before record low, snow on Tuesday

### State by state high and low record temperatures

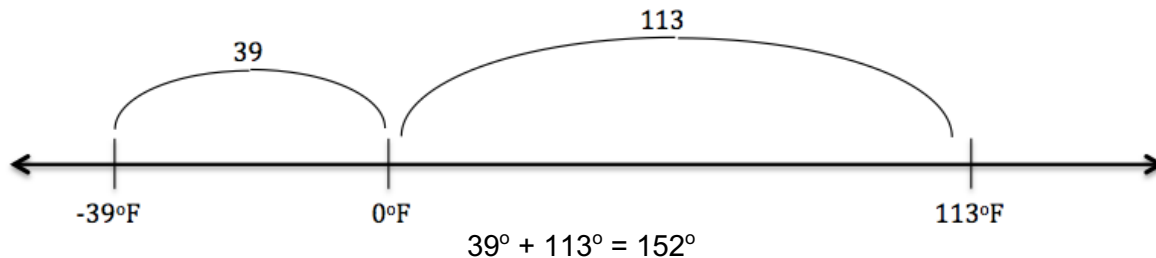
State	Record high	Date	Place	Record low	Date	Place
Alabama	112 °F / 44 °C	9/6/25	Centreville	-27 °F / -33 °C	1/30/66	New Market
Alaska	100 °F / 38 °C	6/27/15	Fort Yukon	-80 °F / -62 °C	1/23/71	Prospect Creek
Arizona	128 °F / 53 °C	6/29/94	Lake Havasu City	-40 °F / -40 °C	1/7/71	McNary
Arkansas	120 °F / 49 °C	8/10/36	Ozark	-29 °F / -34 °C	2/13/05	Gravette
California	134 °F / 57 °C	7/10/13	Furnace Creek (Death Valley)	-45 °F / -43 °C	1/20/37	Boca
Colorado	115 °F / 46 °C	7/20/19	John Martin Reservoir	-61 °F / -52 °C	2/1/85	Maybell
Connecticut	106 °F / 41 °C	7/15/95	Danbury	-37 °F / -38 °C	2/16/43	Norfolk
Delaware	110 °F / 43 °C	7/21/30	Millsboro	-17 °F / -27 °C	1/17/1893	Millsboro
District of Columbia	106 °F / 41 °C	7/20/30	Washington	-15 °F / -26 °C	211/1899	Washington
Florida	109 °F / 43 °C	6/29/31	Monticello	-2 °F / -19 °C	213/1899	Tallahassee
Georgia	112 °F / 44 °C	8/20/83	Greenville	-17 °F / -27 °C	1/27/40	Chatsworth
Hawaii	98 °F / 37 °C	8/19/51	Puunene	15 °F / -9 °C	1/5/75	Mauna Kea Observatories
Idaho	118 °F / 48 °C	7/28/34	Orofino	-60 °F / -51 °C	1/18/43	Island Park
Illinois	117 °F / 47 °C	7/14/54	East Saint Louis	-38 °F / -39 °C	1/31/19	Mount Carroll
Indiana	116 °F / 47 °C	7/14/36	Collegeville	-36 °F / -38 °C	1/19/94	New Whiteland
Iowa	118 °F / 48 °C	7/20/34	Keokuk	-47 °F / -44 °C	2/3/96	Elkader
Kansas	121 °F / 49 °C	7/24/36	Alton	-40 °F / -40 °C	2/13/05	Lebanon
Kentucky	114 °F / 46 °C	7/28/30	Greensburg	-37 °F / -38 °C	1/19/94	Shelbyville
Louisiana	114 °F / 46 °C	8/10/36	Plain Dealing	-16 °F / -27 °C	213/1899	Minden
Maine	105 °F / 41 °C	7/10/11	North Bridgton	-50 °F / -46 °C	1/16/09	Clayton Lake
Maryland	109 °F / 43 °C	7/10/36	Cumberland	-40 °F / -40 °C	1/13/12	Oakland
Massachusetts	107 °F / 42 °C	8/2/75	New Bedford	-40 °F / -40 °C	2/22/84	Chester
Michigan	112 °F / 44 °C	7/13/36	Mio	-51 °F / -46 °C	2/9/34	Vanderbilt
Minnesota	115 °F / 46 °C	7/29/17	Beardsley	-60 °F / -51 °C	2/2/96	Tower
Mississippi	115 °F / 46 °C	7/29/30	Holly Springs	-19 °F / -28 °C	1/30/66	Corinth
Missouri	118 °F / 48 °C	7/14/54	Warsaw	-40 °F / -40 °C	2/13/05	Warsaw
Montana	117 °F / 47 °C	7/5/37	Medicine Lake	-70 °F / -57 °C	1/20/54	Lincoln
Nebraska	118 °F / 48 °C	7/24/36	Minden	-47 °F / -44 °C	12/22/89	Oshkosh
Nevada	125 °F / 52 °C	6/29/94	Laughlin	-50 °F / -46 °C	1/8/37	San Jacinto
New Hampshire	106 °F / 41 °C	7/4/11	Nashua	-50 °F / -46 °C	1/22/1885	Mount Washington
New Jersey	110 °F / 43 °C	7/10/36	Runyon	-34 °F / -37 °C	1/5/04	River Vale
New Mexico	122 °F / 50 °C	6/27/94	Waste Isolation Pilot Plant	-50 °F / -46 °C	2/1/51	Gavilan
New York	109 °F / 43 °C	7/22/26	Troy	-52 °F / -47 °C	2/18/79	Old Forge
North Carolina	110 °F / 43 °C	8/21/83	Fayetteville	-34 °F / -37 °C	1/21/85	Burnsville
North Dakota	122 °F / 50 °C	7/6/36	Steele	-60 °F / -51 °C	2/15/36	Parshall
Ohio	113 °F / 45 °C	7/21/34	Gallipolis	-39 °F / -39 °C	2/10/1899	Milligan
Oklahoma	122 °F / 50 °C	8/12/36	Altus	-31 °F / -35 °C	2/10/11	Nowata
Oregon	117 °F / 47 °C	7/27/39	Umatilla	-54 °F / -48 °C	2/10/33	Seneca
Pennsylvania	111 °F / 44 °C	7/10/36	Phoenixville	-42 °F / -41 °C	1/5/04	Smethport
Rhode Island	104 °F / 40 °C	8/2/75	Providence	-28 °F / -33 °C	1/17/42	Richmond
South Carolina	113 °F / 45 °C	6/29/12	Columbia	-22 °F / -30 °C	1/21/85	Landrum
South Dakota	120 °F / 49 °C	7/15/06	Fort Pierre	-58 °F / -50 °C	2/17/36	McIntosh
Tennessee	113 °F / 45 °C	8/9/30	Perryville	-32 °F / -36 °C	12/30/17	Mountain City
Texas	120 °F / 49 °C	6/28/94	Monahans	-23 °F / -31 °C	2/8/33	Seminole
Utah	117 °F / 47 °C	7/5/85	Saint George	-69 °F / -56 °C	2/1/85	Peter Sinks
Vermont	105 °F / 41 °C	7/4/11	Vernon	-50 °F / -46 °C	12/30/33	Bloomfield

Virginia	110 °F / 43 °C	7/15/54	Balcony Falls	-30 °F / -34 °C	1/22/85	Pembroke
Washington	118 °F / 48 °C	8/5/61	Ice Harbor Dam	-48 °F / -44 °C	12/30/68	Winthrop
West Virginia	112 °F / 44 °C	7/10/36	Martinsburg	-37 °F / -38 °C	12/30/17	Lewisburg
Wisconsin	114 °F / 46 °C	7/13/36	Wisconsin Dells	-55 °F / -48 °C	2/4/96	Couderay
Wyoming	115 °F / 46 °C	8/8/83	Basin	-63 °F / -53 °C	2/9/33	Moran

1. List the five warmest state high temperatures. List each of the five states and their corresponding high temperature:

2. List the five lowest state record low temperatures. List each of the five states and their corresponding low temperature:

In this activity we will be working with signed numbers. An **open number line** is a useful tool to help you operate with signed numbers. Let's say that I want to find the difference between (range of) Ohio's record high (113°F) and record low (-39°F) temperatures. You can place each value on a number line like in the example below. Notice that the values are not placed on the number line to scale and I have not included any other intervals. I have made sure that the values are in relative order to each other and zero. Now I can find the distance from -39 to zero and the distance from 0 to 113. Finally, I can add these values together as I have done below.



This number line model also helps me understand why I am actually adding when I am subtracting a negative value. In this example you should see that the difference between 113 and  $-39$  or  $113 - -39$  is actually the same math as  $113 + 39$ .

In these problems we will be looking for the positive difference or **absolute value**. This means when we are finding differences we should always take the positive difference. Using absolute value in our subtraction problems will ensure that we always have computed the positive difference. For example, a student may have done  $-39 - 113 = -152$ . Using absolute value, you would get  $|-39 - 113| = |-152| = 152$ .

Try the following problems. Remember to use an open number line or absolute value if helpful.

3. According to the data, which state has the greatest range in temperature between its record high and record low? What is that range?

4. According to the data, which state has the least range in temperature between its record high and record low? What is that range?

5. According to the data, what is the range in temperature between the record high and record low for the entire U.S.? What is that range?
6. What is the range in record temperatures for the state that you live in now?
7. I have always thought of California as a warm place, especially after living in Illinois most of my life. Which of these two states has had a lower record cold temperature? Write a math sentence to find the positive difference between their record low temperatures.
8. Find as many pairs of record low temperatures that have a difference of 30 degrees. Write and solve math sentences to confirm or show that they have a difference of 30 degrees.
9. Go online and find the record high and low temperatures for the area that you live in. How do these records compare to the records for your state or states in your region?

Sources: [https://en.wikipedia.org/wiki/U.S.\\_state\\_and\\_territory\\_temperature\\_extremes](https://en.wikipedia.org/wiki/U.S._state_and_territory_temperature_extremes)  
<http://www.washingtonpost.com/blogs/wonkblog/wp/2014/01/06/can-global-warming-be-real-if-its-cold-in-the-u-s-um-yes/>