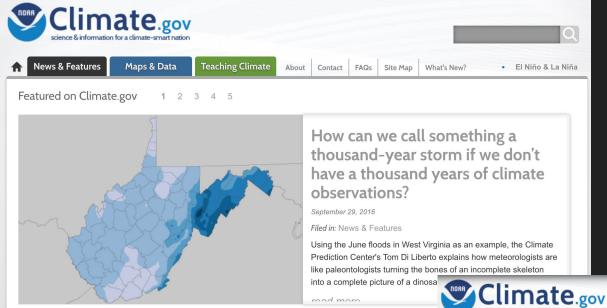
# Climate.gov, U.S. Climate Resilience Toolkit, and Climate Explorer

Extreme Precipitation in the Northeast Westborough, Massachusetts October 15, 2019

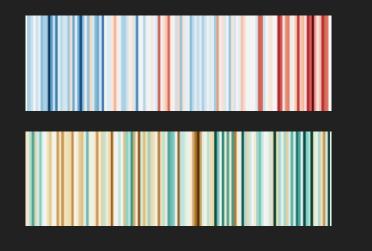


LuAnn Dahlman Iuann.dahlman@noaa.gov Contractor to NOAA Climate Program Office Collabralink Technologies, Inc.



- Plain-language explanations
- Event tracker posts
- Maps & Data
- Education Resources

 Access "Climate Stripes" for cities and counties across the U.S.





Monthly Temperature Outlook

**Probability of Severe Weather** 

Average Monthly Temperature

**Drought Monitor** 



#### Climate Data Primer

Ready to learn some of the basics about climate data? Find out about measuring, modeling, and predicting climate and ways to find and use climate data.

The Primer includes information on instruments used to measure weather and climate; how weather observations relate to climate products; how climate scientists check the quality of observations, and tools you can use for exploring climate data

Open the Primer's table of contents

#### Recently Updated Datasets

Worldwide Wind Roses - Graphics and
Tabular Data



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# Meet the Challenges of a Changing Climate

Find information and tools to help you understand and address your climate risks.



SEE WHAT OTHERS ARE DOING >

USE THE CLIMATE EXPLORER >

TOUR THE TOOLKIT •





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# STEPS TO RESILIENCE

Use this framework to discover and document climate hazards, then develop workable solutions to lower climate-related risks. Watch the overview video or click any step to learn more.

1	Explore Hazards	
2	Assess Vulnerability & Risks	
3	Investigate Options	
4	Prioritize & Plan	
5	Take Action	











#### Northeast

Flooding, warming temperatures, and precipitation variability are all growing challenges in the Northeast, and increase the vulnerability of the region's residents, infrastructure, and ecosystems. States and cities are starting to build resilience by incorporating climate change into their planning processes.

Home > Regions > Northeast >

## **Key Points:**

- SHARE
  SHARE
  TWEET
  PRINT
- Sea level along coastlines in the Northeast has risen approximately one foot since 1900-a rate that exceeds the global average. Due to local land subsidence in the region, the rate of sea level rise over the next century is expected to continue exceeding global levels.
- The Northeast has seen a greater increase in extreme precipitation than any other region in the United States: the amount of precipitation falling in very heavy events between 1958 and 2010 increased by more than 70 percent. The frequency of heavy downpours is projected to continue increasing as the century progresses.
  - The frequency, intensity, and duration of heat waves in the region is expected to increase through the next century, while the frequency, intensity, and duration of cold air outbreaks is expected to decrease.

#### Northeast

- People and Communities
- Infrastructure and the Built Environment
- Agriculture and Ecosystems
- Building Resilience in the Northeast

Northeast Regional Resources

View all Northeast Case Studies >

View all Northeast Tools >

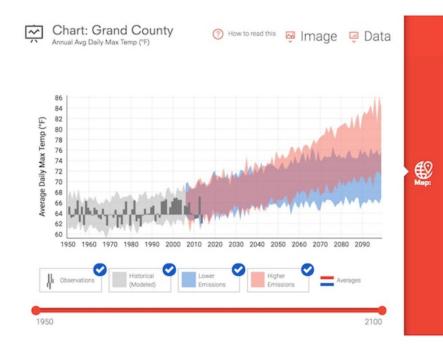
View all Northeast Reports >

View all Northeast Training Courses >

New England Federal Partners Webpage >

## **CLIMATE EXPLORER**

This visualization tools generates interactive graphs and maps showing climate projections and observations for any county in the contiguous United States. You can also explore historical temperature and precipitation observations at hundreds of climate stations, and view observed and projected days of high-tide flooding at more than 90 coastal tide-gauge stations.



#### Current live version: <u>https://crt-climate-explorer.nemac.org/</u>

LAUNCH THE CLIMATE EXPLORER >

LAUNCH THE CLIMATE EXPLORER (WITH INTRODUCTORY SIDEBAR) >

LEARN MORE ABOUT CLIMATE EXPLORER >

#### https://climate-explorer3-dev.nemac.org/

 <sup>^</sup> Beta version of Climate Explorer 3. OK to use this version with improved navigation. (Note: All projection info in the interface is the same as the live version. We anticipate Version 3 will replace the current version in late 2019)



Explore graphs and maps of historical and projected climate variables for any county in the contiguous United States.

### Enter county, city, or zip code

or choose from the following suggested cities: New York City, NY Los Angeles, CA Chicago, IL Phoenix, AZ Houston, TX



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Climate Explorer 3 (Beta) https://climate-explorer3-dev.nemac.org/



Explore graphs and maps of historical and projected climate variables for any county in the contiguous United States.

Westborough, MA	٩
<b>Westborough Ma</b> ssachusetts, USA	
Chicago, IL	powered by Google
Chicago, IL Phoenix, AZ	
Houston, TX	



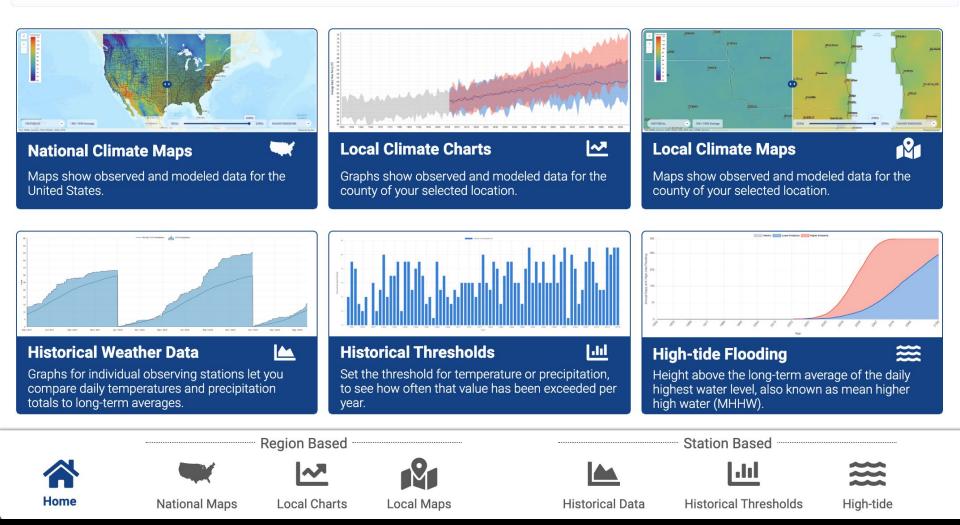
Climate Explorer 3 (Beta) https://climate-explorer3-dev.nemac.org/



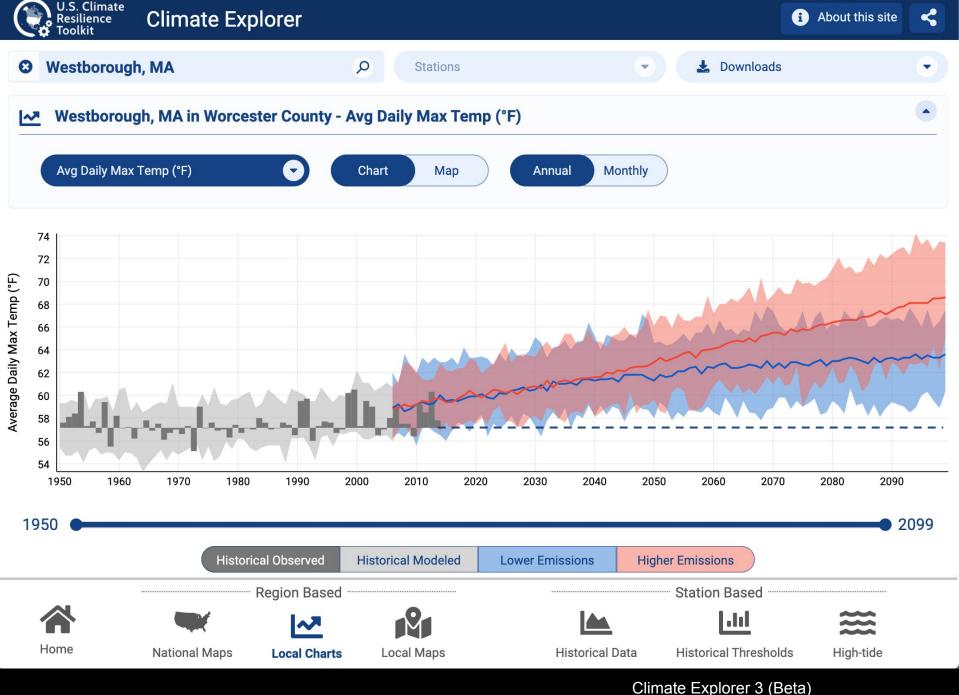
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#### **O** Westborough, MA

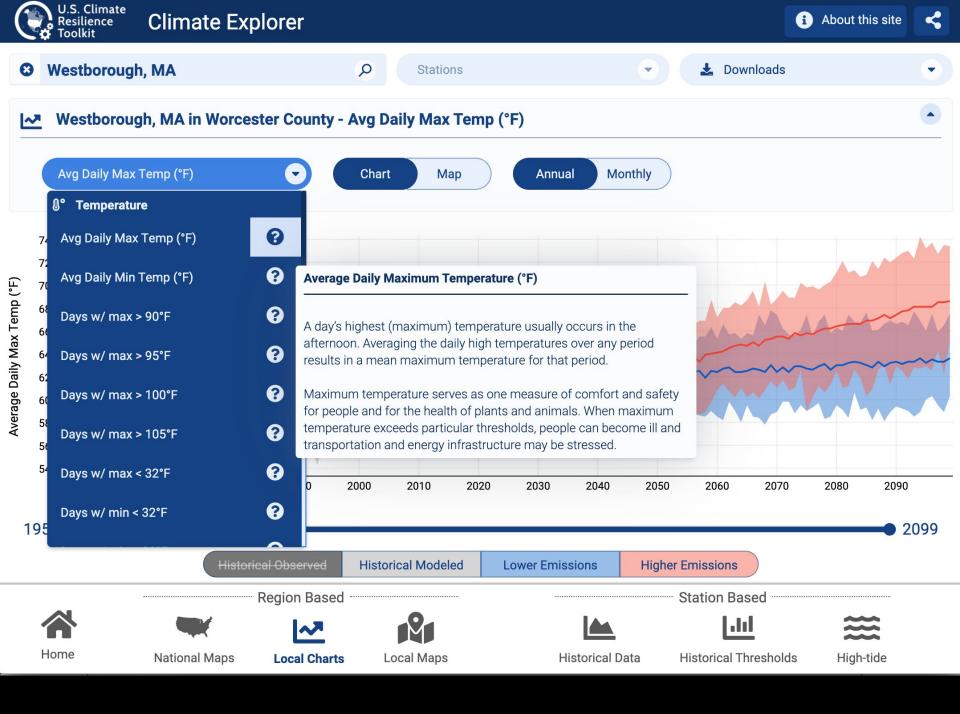
### Select one of the following for Westborough, MA in Worcester County Avg Daily Max Temp (°F)

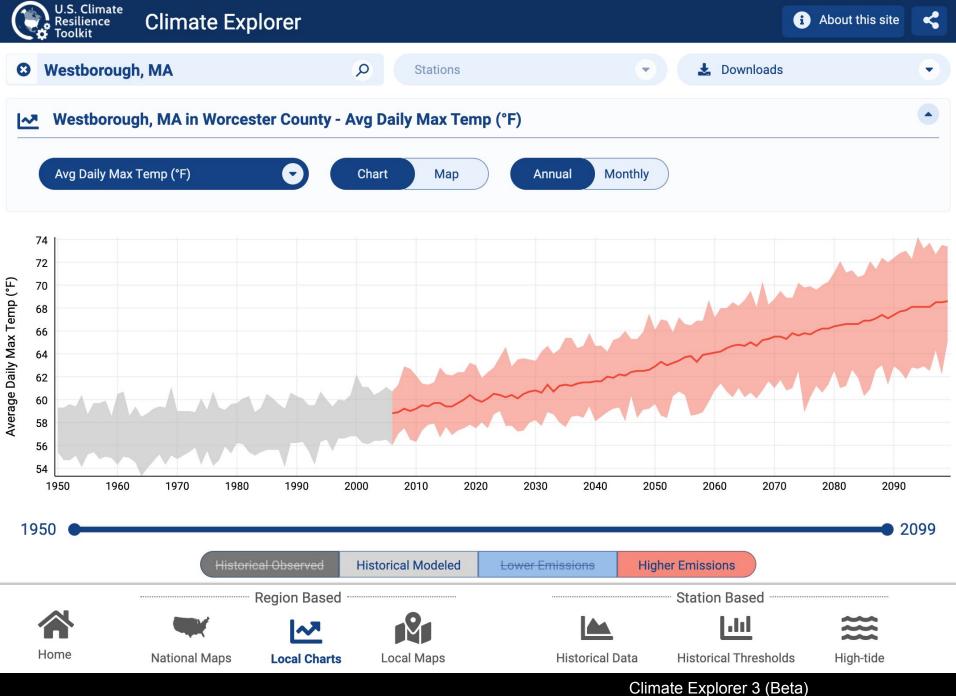


#### Climate Explorer 3 (Beta) https://climate-explorer3-dev.nemac.org/

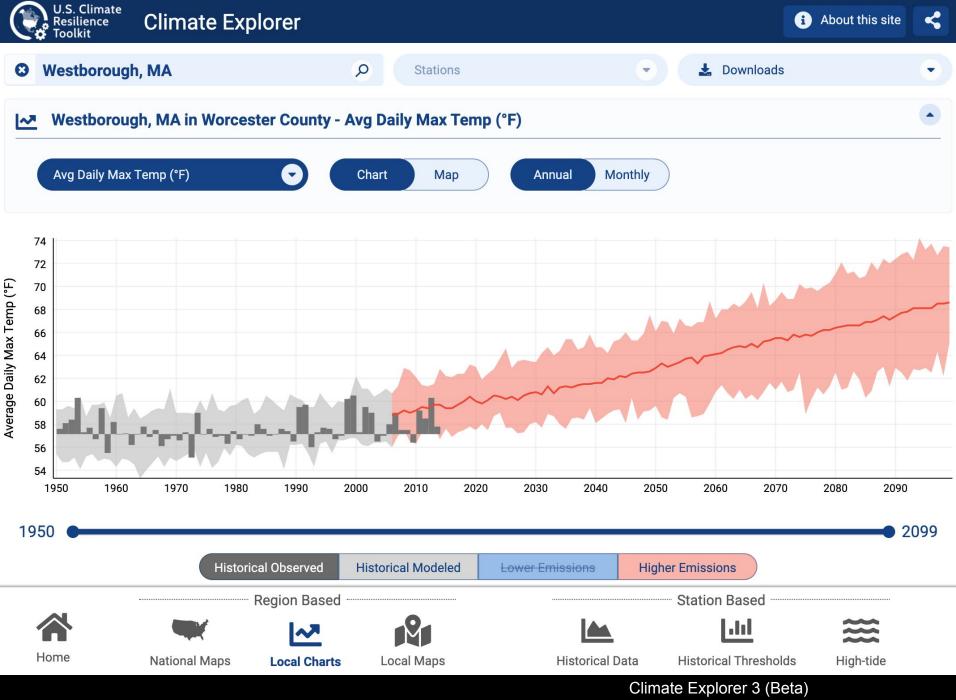


https://climate-explorer3-dev.nemac.org/





https://climate-explorer3-dev.nemac.org/



https://climate-explorer3-dev.nemac.org/