



A Coordinated Federal Initiative to Prepare the Nation for Extreme Heat

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NOAA Climate Program Office

Eastern Region Headlines

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CAPITAL WEATHER GANG Climate Weather Environment Climate Lab

Updated Jul 16, 2024 - Energy & Climate

"Potentially deadly" heat wave envelops East Coast

D.C. hits record 104 amid most intense heat stretch since Dust Bowl

There probably won't be significant relief until Thursday.

Extreme Heat U.S. Tracker Global Tracker Staying Safe Heat Exhaustion Symptoms Heat's Physical Toll |

Northeast Braces for Dangerous Heat and Humidity

Forecasters said that temperatures could feel more like 100 degrees in parts of New Jersey and New York City on Monday and into the mid and upper 90s for the rest of the region.

What to Expect as a Punishing Heat Wave Shifts East

The West will get a small break from record-breaking heat, while much of the Midwest and the East Coast swelter into next week.

Triple-digit temperatures expected over July Fourth holiday; nearly 150 million under heat alerts

More than 130 heat daily heat records could be set through Tuesday as prolonged and sweltering temperatures are expected across parts of the U.S.

FOX WEATHER

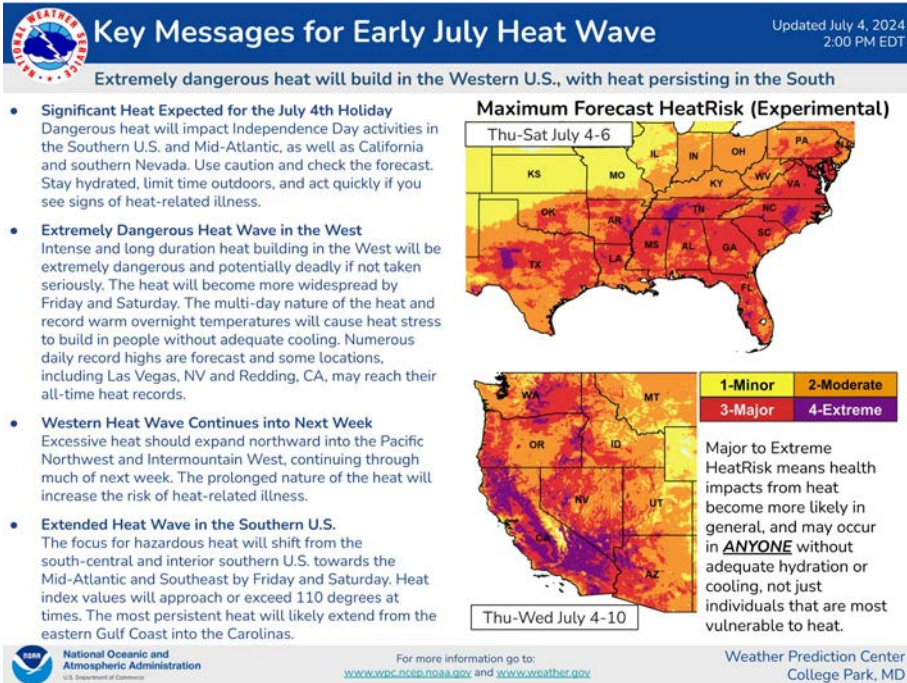
The FOX W
LEA

er News How to Watch Extreme Weather Learn Local Weather Earth & Space Lifestyle Video America's W

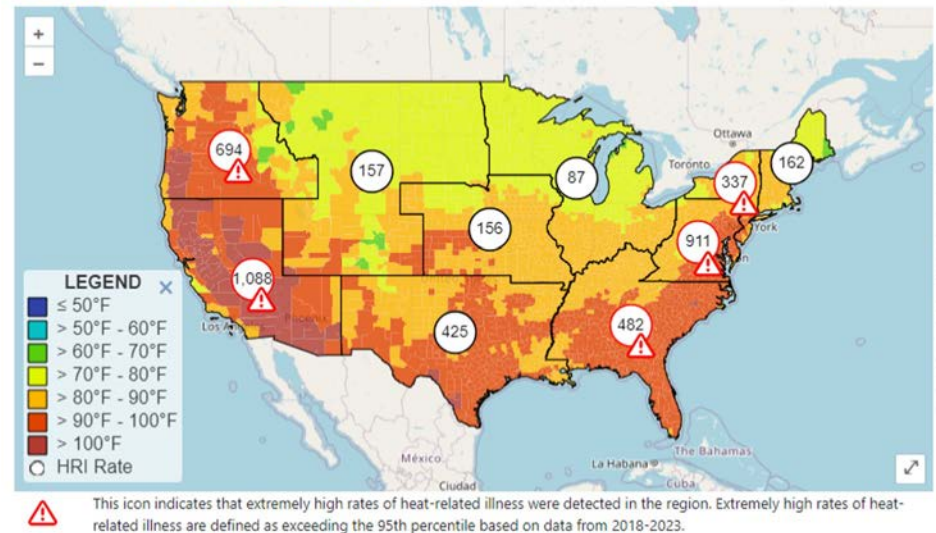
Millions from Texas to Maine on alert as extreme heat bakes eastern US

The FOX Forecast Center predicts daily record highs to fall through Wednesday.

Early July Heat Wave

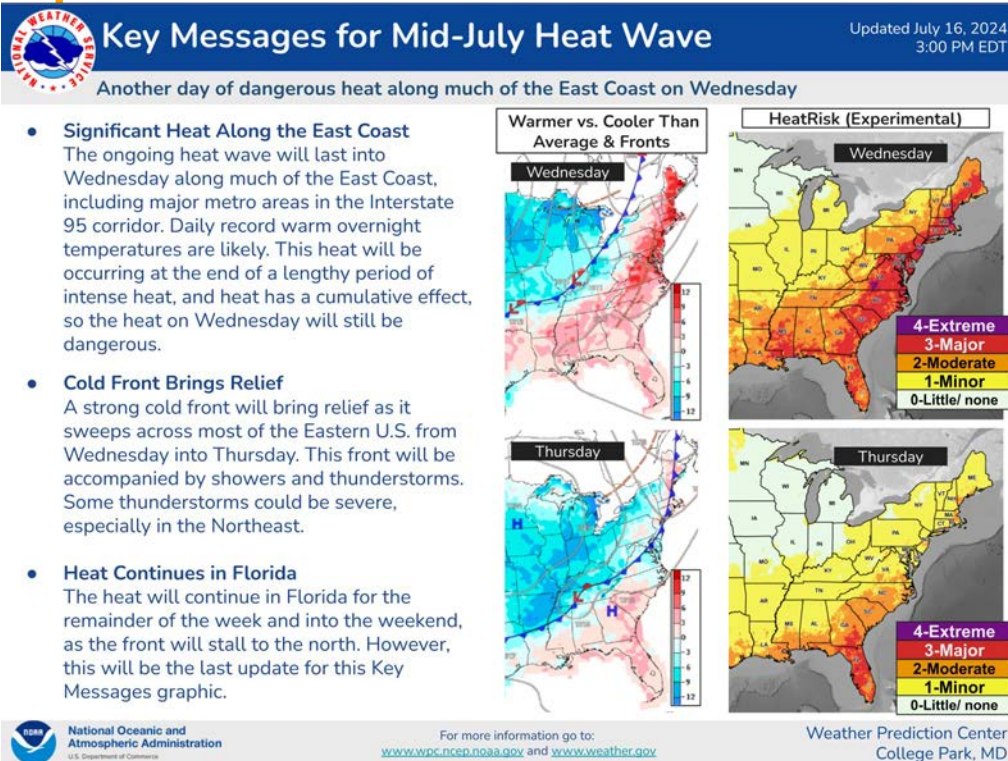


Daily Heat-Related Illness

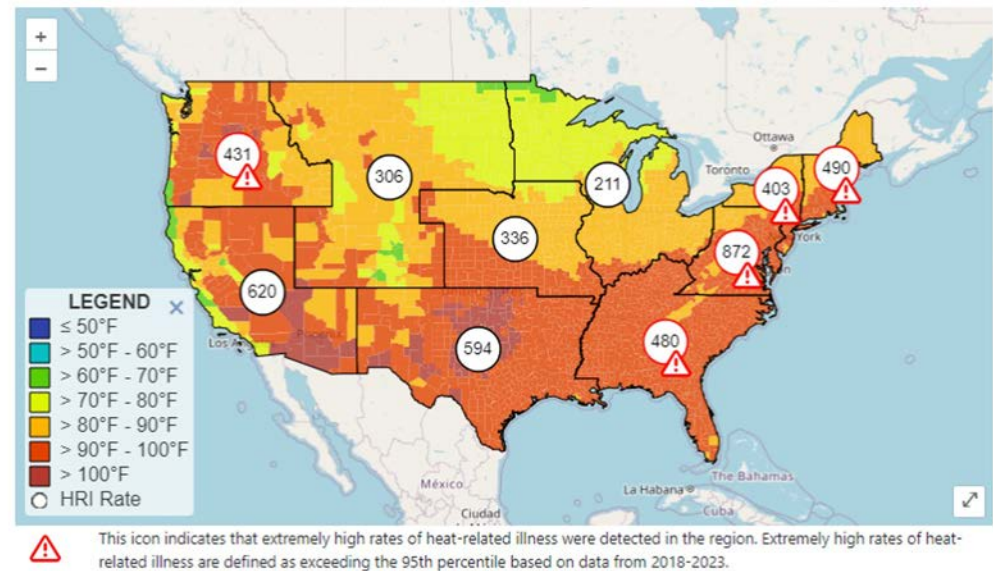


July 6: HHS regions 2 and 3 had extremely high rates of heat-related illness were detected in the region. Extremely high rates of heat-related illness are defined as exceeding the 95th percentile based on data from 2018-2023.

Mid-July Heat Wave



Daily Heat-Related Illness



July 16: HHS regions 1, 2, and 3 had heat-related illness were detected in the region. Extremely high rates of heat-related illness are defined as exceeding the 95th percentile based on data from 2018-2023.



Widespread Excessive Heat Over Much of the U.S. into Early August

Issued July 23, 2024

Timing: July 31 - August 6, 2024

A heat wave is forecast for much of the lower 48 late July through at least early August coinciding with the hottest time of the year climatologically.

(a) High risk (60% chance or more) of excessive heat is indicated for parts of the Central and Southern Plains and Middle and Lower Mississippi Valley regions. Moderate risk (40-60% chance) of excessive heat covers much of the central U.S. and Northeast. A broad area of slight risk of excessive heat (20-40% chance) covers much of the lower 48.

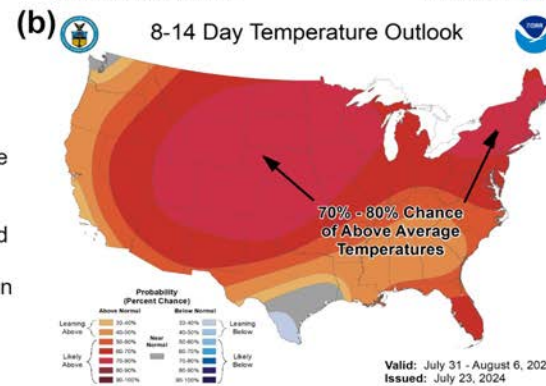
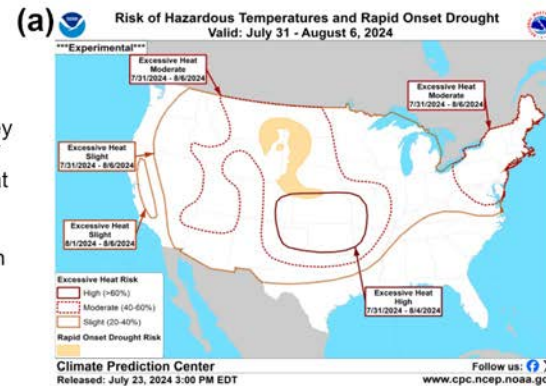
(b) Above normal temperatures are indicated across much of the U.S., with the exception of southern Texas and northwestern Washington. Probabilities of above normal temperatures reach 70 to 80% over the central U.S. and the Northeast.

Maximum temperatures are likely to exceed 100 degrees with heat index values of 105-110 or higher within the high risk of excessive heat, with many locations reaching well into the 90s in the broader slight and moderate risk areas.

Drying topsoil along with the likelihood of above-normal temperatures and below-normal precipitation supports rapid onset drought risk for parts of the Northern and Central Plains.

High temperatures can lead to heat-related illness. Stay in a cool place and limit outdoor activities if possible, remember to hydrate, and never leave people or pets in a vehicle. Visit <https://www.heat.gov/> for safety information during times of excessive heat.

* For short-term forecasts (prior to July 31), visit www.wpc.ncep.noaa.gov and weather.gov.



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

Climate Prediction Center
www.cpc.ncep.noaa.gov

***Key messages are subject to change due to changes in forecast information and tools.

Why Is It So Difficult to Reduce Heat Risk?

1

Heat has been overlooked for a long time and is not yet reflected in **policies** and **governance** structures at all levels of government.

2

Heat impacts are “invisible,” delayed, or **poorly quantified** due to **lacking impact data & studies**.

3

Many communities don't have heat action plans or long-term planning in place, or they **have not stress-tested** those plans.

4

Communities need **guidance, evidence,** and **support** to take effective action on heat.

The National Integrated Heat Health Information System (NIHHIS)

- Launched in 2015 by NOAA and CDC for a coordinated approach to heat resilience
- Trans-disciplinary work across governmental agencies and non-governmental partners
- Works across timescales to bridge long-term heat mitigation and short-term planning
- Supports and implements the White House Extreme Heat Interagency Working Group



FEMA



Office of
Climate Change
and Health Equity



U.S. Department
of Veterans Affairs



U.S. DEPARTMENT OF
ENERGY



Federal Heat Action is Complex

Coordination

Research,
Data,
Information

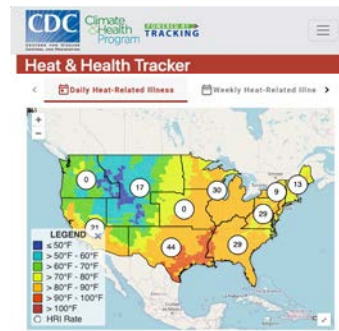
Regulation &
Policy

Implementation
& Capacity

Technical
Support



NATIONAL INTEGRATED HEAT
HEALTH INFORMATION SYSTEM



NWS HeatRisk

Green 0	Little to no risk from expected heat.
Yellow 1	Minor - This level of heat affects primarily those individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
Orange 2	Moderate - This level of heat affects most individuals sensitive to heat, especially those without effective cooling and/or adequate hydration. Impacts possible in some health systems and in heat sensitive industries.
Red 3	Major - This level of heat affects anyone without effective cooling and/or adequate hydration. Impacts likely in some health systems. Avoid outdoor activities.

OASH

Climate and Health Outlook

The Climate and Health Outlook is an effort to inform health professionals and the public on how our health may be affected in the coming months by climate events and to provide resources for proactive action. Visit the [outlook](#).

OSHA[®] Heat Injury and Illness Prevention in Outdoor and Indoor Work Settings

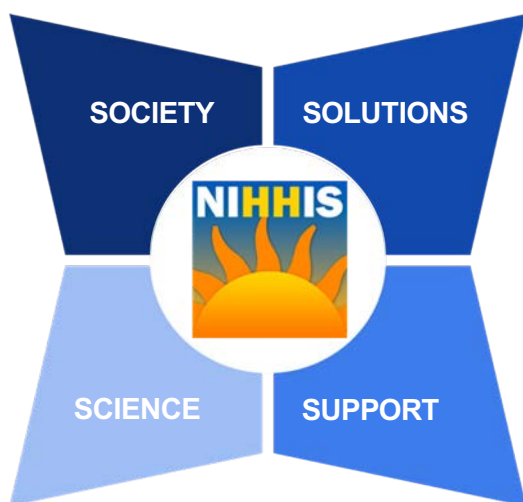
- H.R.4953 Preventing HEAT Illness and Deaths Act of 2023
- H.R.4733 - Smoke and Heat Ready Communities Act of 2023
- H.R.4256 - Jordan McNair Student Athlete Heat Fatality Prevention Act
- H.R.4314 - Stay Cool Act
- H.R.4269 - Timothy J. Barber Act

Criteria for a Recommended Standard
Occupational Exposure to Heat and Hot Environments



NIHHIS Program Coordination

The NIHHIS Program manages interagency coordination and planning.
It is hosted in the Climate Program Office in NOAA Research.



National Heat
Strategy



Heat.gov
Heat Beat Newsletter,
X: @Heatgov

3rd Annual
NIHHIS National Meeting

April 16-18, 2024
12:00-4:00 PM ET
Virtual (Zoom)

Register:
bit.ly/NIHHISNational

Interagency Working
Groups, Funding Priorities,
Forums, Communications

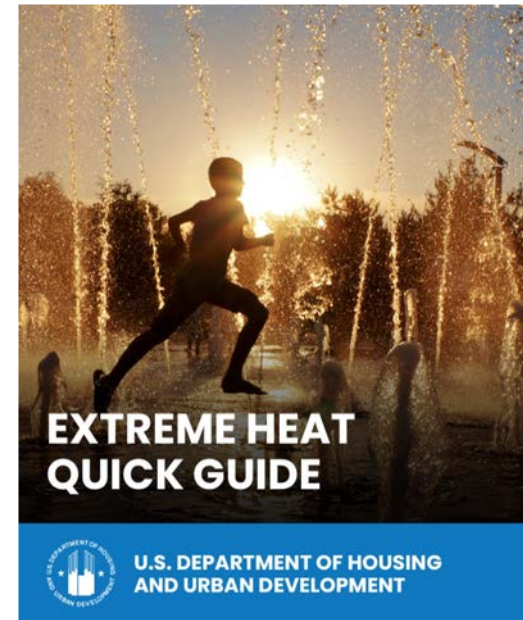
New Interagency Heat Actions



**FEMA Streamlines BCA
for Resilience Grants**



**OSHA Heat Rule & National
Emphasis Program**



**HUD Extreme Heat
Quick Guide**

HEAT.GOV

 National Oceanic and Atmospheric Administration
U.S. Department of Commerce

Search NOAA sites 

Home / News & Features

Biden Administration launches Heat.gov with tools for communities facing extreme heat

Focus areas: Research, Climate
Topics: heat, heat waves, safety, extreme weather, public health, Social media and Web, climate, resilience

Share:    



 **HEAT.gov**
National Integrated Heat Health Information System

Home News & Events Learn Urban Heat Islands Tools & Information At Risk Groups Planning & Preparing About

Welcome to HEAT.gov

Heat related illnesses and death are largely preventable with proper planning, education, and action. Heat.gov serves as the premier source of heat and health information for the nation to reduce the health, economic, and infrastructural impacts of extreme heat.

Heat.gov is the web portal for the National Integrated Heat Health Information System (NIHHS)

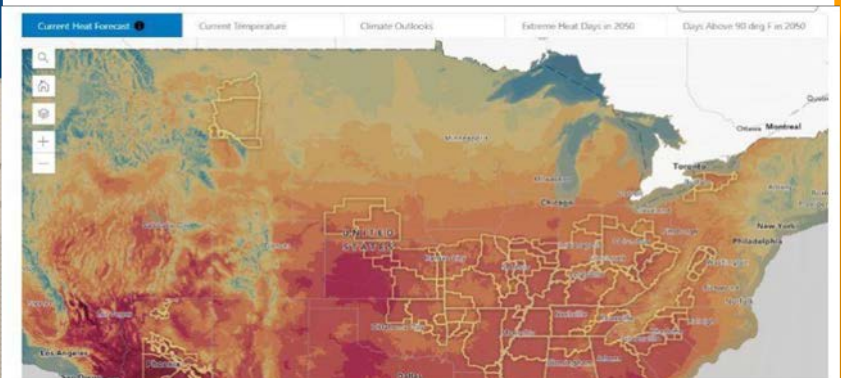
News

- Funding Opportunity: EPA Environmental Justice Government-to-Government Program
- New Document Outlining Tips for People Who Take Medication and Coping with Hot Weather
- Webinar Recording of the 2022 Urban Heat Island Mapping Campaign Results

 Tools & Information

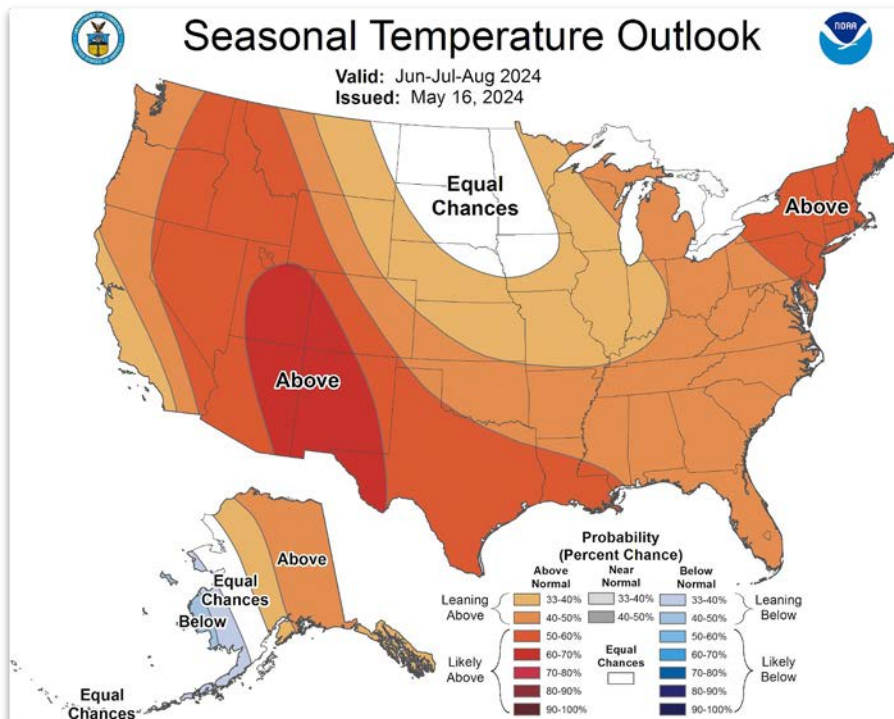
 Who is at Risk to Extreme Heat

 Climate and Health Outlook

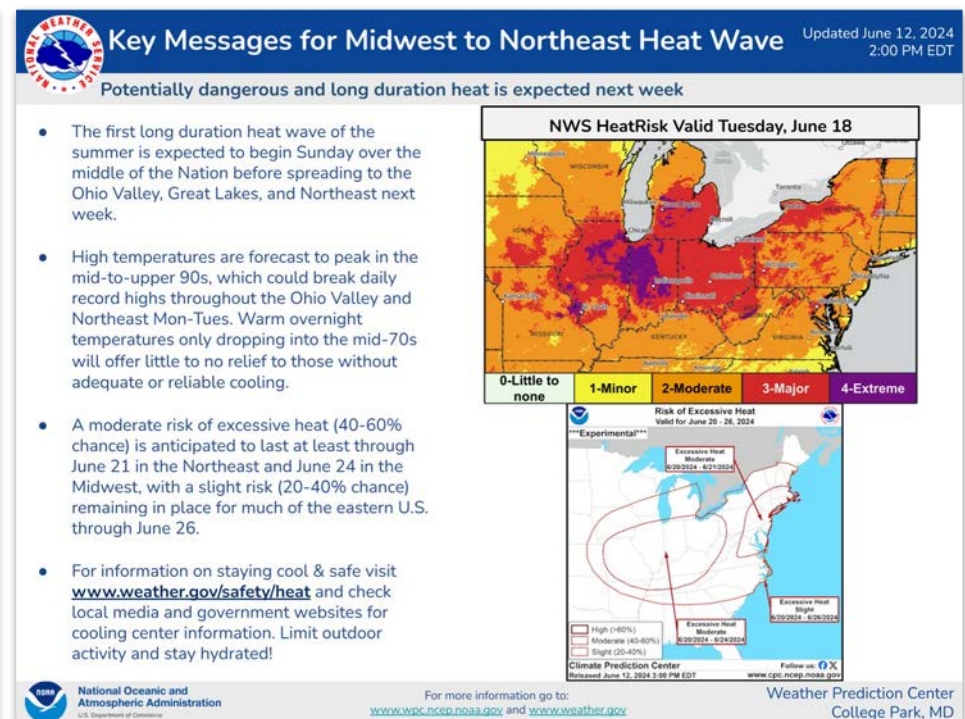


Seasonal Temperature Outlook & Key Messages

CPC Seasonal temperature outlooks and Key Messages available on heat.gov



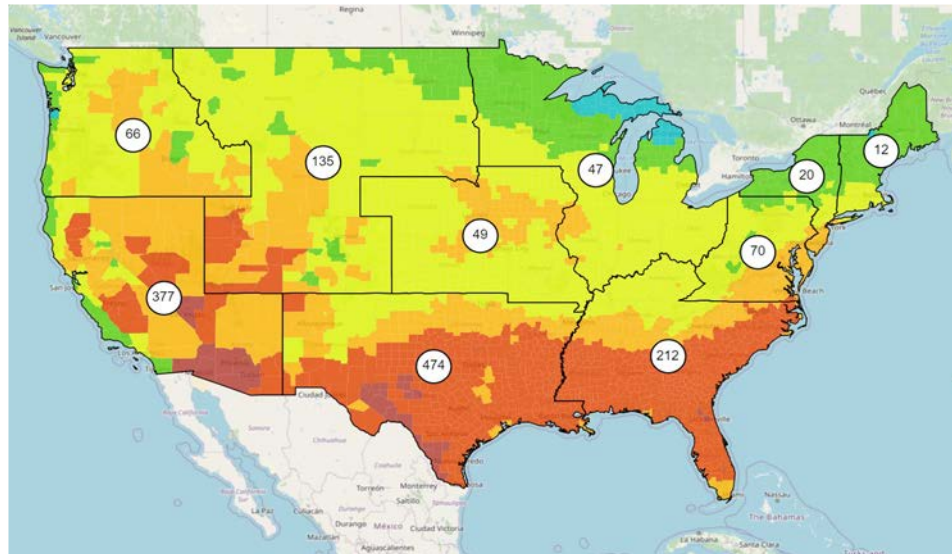
Areas favored for warmer than normal conditions this summer - June-July-August



Focus on Days 1-7 and Week 2

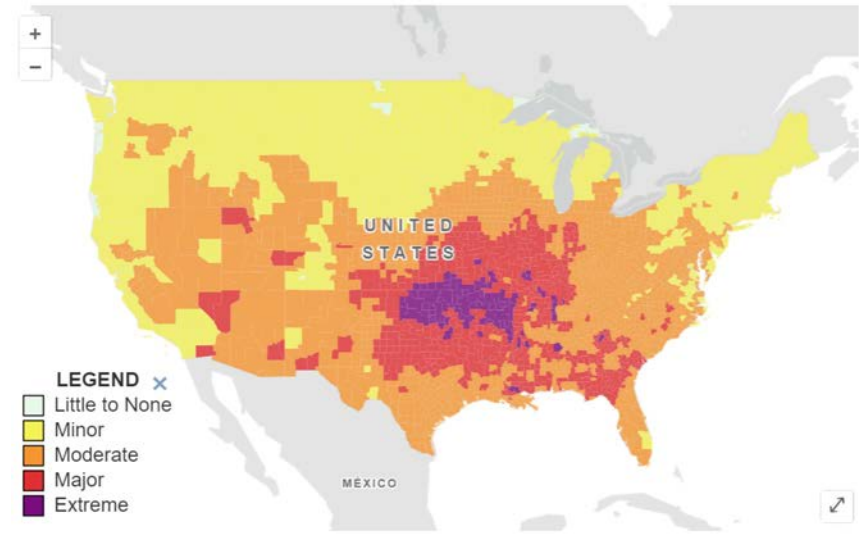
CDC/NWS Heat & Health Resources

Heat & Health Tracker



Rate of ED visits associated with heat-related illness per 100,000 ED visits by region

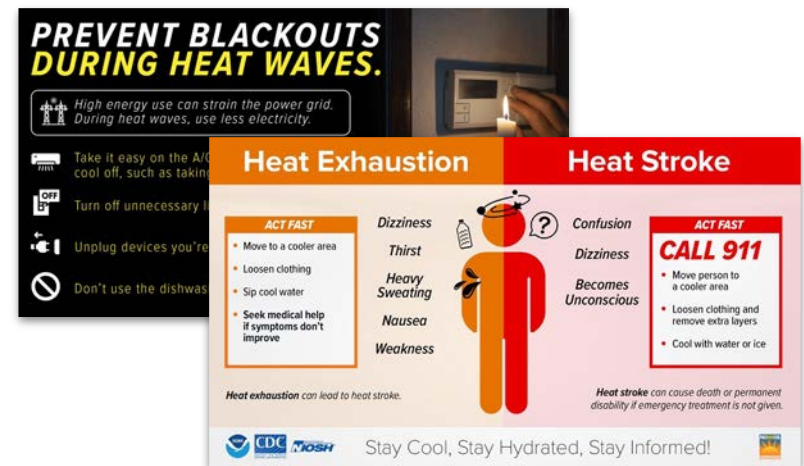
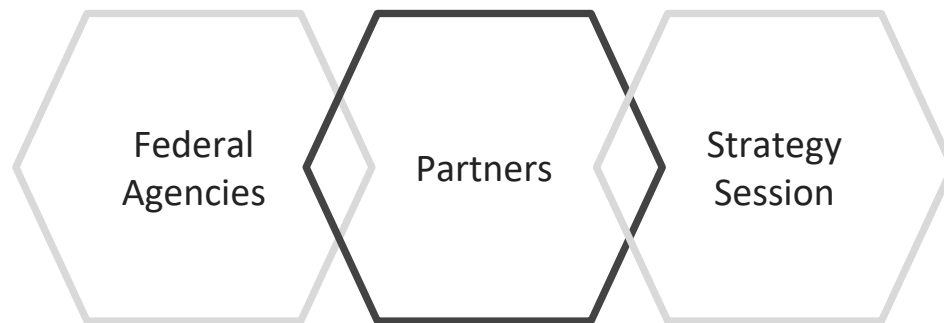
Heat Risk



Heat Risk for Tuesday, June 25

Federal Heat Communications Plan

A whole-of-government plan informed by government agencies to raise public awareness on dangers of heat through community engagement, infographics, webinars and workshops, social media campaigns, and more





Social Media Campaigns

1. Early-Season Campaign 4/29-5/3
2. Mid-Season Campaign 7/15-8/16
3. Late-Season Campaign 9/23-9/27



Building Awareness and Critical Heat Datasets with Citizen Science

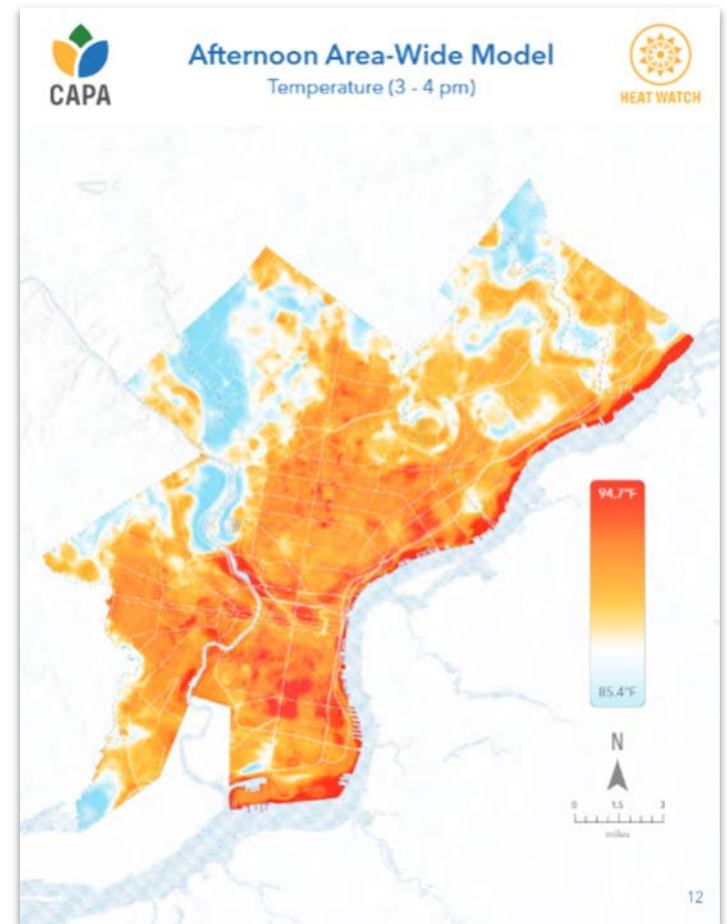


80+ community-led **urban heat island mapping campaigns** that build upon local partnerships to learn how heat is distributed.

Past campaigns have successfully informed city sustainability plans, public health practices, urban forestry plans, and research projects.

Cities in the Eastern Region

- Boston, Mystic River Watershed, Framingham, and Brockton, MA
- Scranton and Philadelphia, PA
- NYC
- Baltimore and Montgomery County, MD
- Burlington, VT
- Jersey City, Newark, and Elizabeth, NJ
- Wilmington, DE
- Washington, DC



Philadelphia, 2022

Outcomes from Heat Mapping



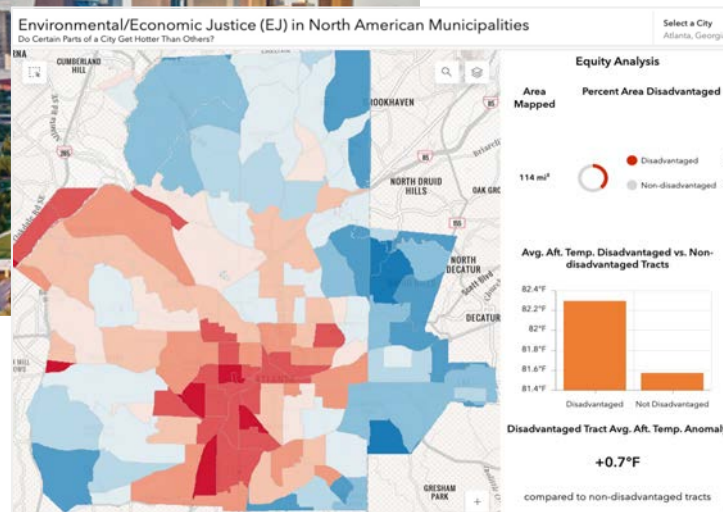
Awareness and Advocacy



Community Engagement



Resilience
Planning &
Grantmaking



Datasets for Evidence



Shade & Smart Surfaces



Urban Greening

NOAA Climate and Equity Pilots

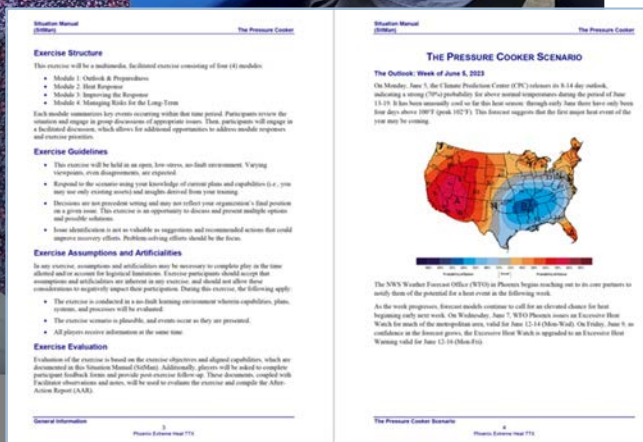
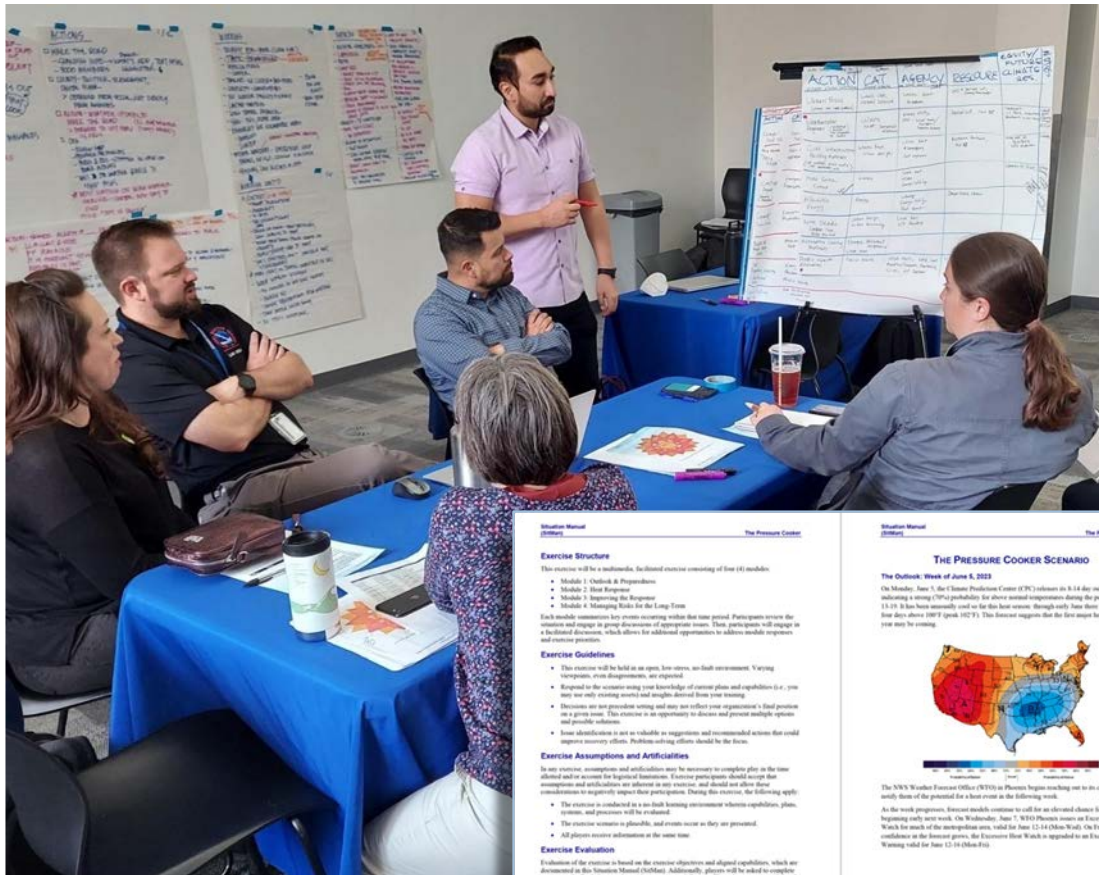
NOAA Climate & Equity Roundtable Pilots: Heat

NOAA Regional Coordination Teams, RCSDs & NIHHIS piloted heat tabletop exercises in:

- ❑ Las Vegas, NV
- ❑ Phoenix, AZ
- ❑ Charleston, SC
- ❑ Miami, FL

The tabletops span timescales including resilience; they are planned with community-based organizations that serve at-risk groups.

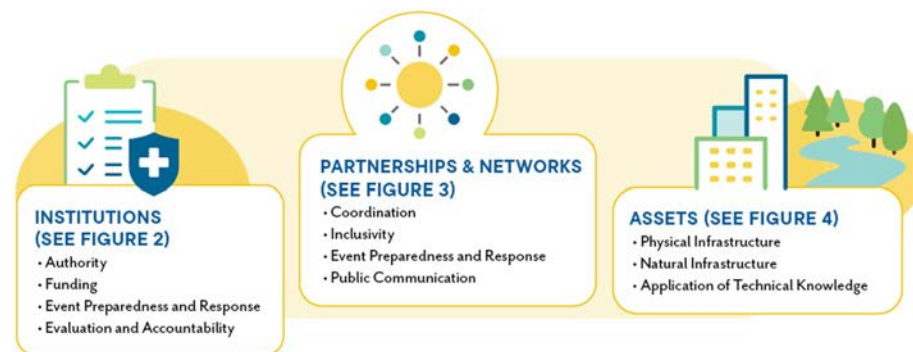
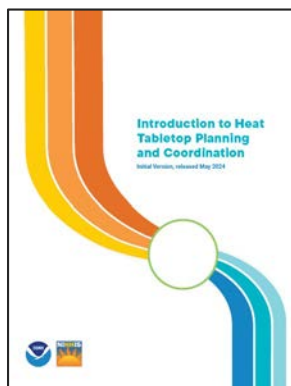
Ex Action: shaded bus stops



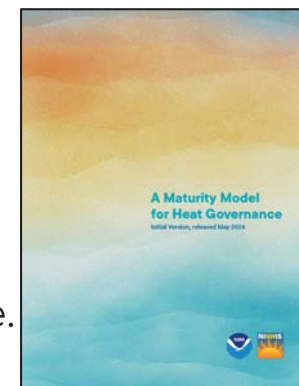
Supporting Local Heat Action Planning, Heat Governance, and Tabletop Exercises



Heat **tabletop exercises** simulate extreme heat events and inform improvements to preparedness, response and long-term resilience.



The **maturity model for heat governance** allows leaders and decision-makers to evaluate institutional posture and improve heat governance.





Center for Collaborative Heat Monitoring



Supports **community science** data collection on extreme heat so communities can observe, monitor and evaluate factors influencing heat risk at a local scale

Center for Heat Resilient Communities



Determines **best strategies** for mitigating and managing local heat, leveraging federal investments to reduce heat risk, and developing data-driven solutions



Stay Connected with NIHHIS



- **Website:** HEAT.GOV
- **Email:** nihhis@noaa.gov
- **Newsletter:**
bit.ly/HeatBeatNewsletter
- **X/Twitter:** @HeatGov