A Coordinated Federal Initiative to Prepare the Nation for Extreme Heat

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"Potentially deadly" heat wave envelops East Coast

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.

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

There probably won't be significant relief until Thursday.

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.

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

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

Key Messages for Mid-July Heat Wave

- **Significant Heat Along the East Coast**
  The ongoing heat wave will last into Wednesday along much of the East Coast, including major metro areas in the Interstate 95 corridor. Daily record warm overnight temperatures are likely. This heat will be occurring at the end of a lengthy period of intense heat, and heat has a cumulative effect, so the heat on Wednesday will still be dangerous.

- **Cold Front Brings Relief**
  A strong cold front will bring relief as it sweeps across most of the Eastern U.S. from Wednesday into Thursday. This front will be accompanied by showers and thunderstorms. Some thunderstorms could be severe, especially in the Northeast.

- **Heat Continues in Florida**
  The heat will continue in Florida for the remainder of the week and into the weekend, as the front will stall to the north. However, this will be the last update for this Key Messages graphic.

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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.
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.weather.gov](https://www.weather.gov) for safety information during times of excessive heat.

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

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**Key messages are subject to change due to changes in forecast information and tools.**
Heat has been overlooked for a long time and is not yet reflected in policies and governance structures at all levels of government.

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

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

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
Federal Heat Action is Complex

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- **Preventing HEAT Illness and Deaths Act of 2023**
- **Smoke and Heat Ready Communities Act of 2023**
- **Jordan McNair Student Athlete Heat Fatality Prevention Act**
- **Stay Cool Act**
- **Timothy J. Barber Act**

**Federal Heat Action is Complex**

- Research, Data, Information
- Regulation & Policy
- Implementation & Capacity
- Technical Support

**Coordination**

- [Image] National Integrated Heat Health Information System (NIHHIS)

**Research, Data, Information**

- [Image] CDC Heat & Health Tracker
- [Image] NWS HeatRisk
- [Image] Climate and Health Outlook

**Regulation & Policy**

- [Image] OSHA Heat Injury and Illness Prevention in Outdoor and Indoor Work Settings
- [Image] PROPOSED RULE

**Implementation & Capacity**

- [Image] LIHEAP
- [Image] Community Development Block Grant (CDBG)
- [Image] BRIC

**Technical Support**

- [Image] Extreme Heat Quick Guide
- [Image] USAID
- [Image] USDA Forest Service
The NIHHIS Program manages interagency coordination and planning. It is hosted in the Climate Program Office in NOAA Research.

NIHHIS Program Coordination

Heat.gov
Heat Beat Newsletter,
X: @Heatgov

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
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

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 impact of extreme heat.

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

Tools & Information
Who is at Risk to Extreme Heat
Climatic 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
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
Outcomes from Heat Mapping

- Awareness and Advocacy
- Resilience Planning & Grantmaking
- Community Engagement
- Datasets for Evidence
- Shade & Smart Surfaces
- Urban Greening
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