





















CPASW 2023

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May 9th, 2023

















Heat is an Overlooked Issue



Buncombe County, NC- Days w/ max temp. > 90°F





- The impacts are often invisible, delayed, or **hard to quantify**.
- Heat governance falls between the cracks at all levels of government.
- Heat affects marginalized groups the most, which by definition lack the means to act themselves or bring high level attention to the issue
- As with other disasters, we wait until it is too late rather than planning and preparing.



















National Integrated Heat Health Information System (NIHHIS)

NIHHIS vision: A heat resilient nation empowered to effectively address extreme heat and its impacts.

Understand decision context



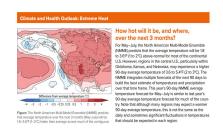
Co-Develop Products and Tools



Improve Observations and Predictions



Support Planning and Response



Enhance Solutions with Research



Communicate and Build Capacity































NOAA











































NIHHIS Interagency Working Group

Accomplishments and ongoing projects:

- Developed the NIHHIS Portal with interagency information, resources, & heat predictions.
- Led 2 consecutive major national communications campaigns to promote public awareness of health impacts of extreme heat, and coordinated messaging among NIHHIS partner agencies.
- Developed tools and products including the Climate and Health Outlook and Heat and Health Tracker
- Multiple pilot projects across the country
- Leading development of the NIHHIS Strategic Plan







NIHHIS Interagency Communications Group











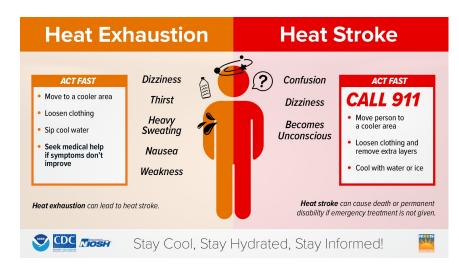
















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NIHHIS Urban Heat Island Mapping Campaigns













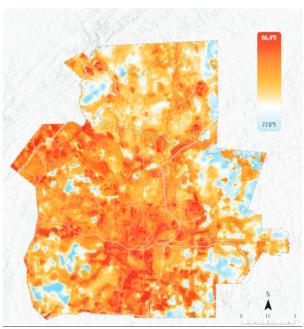


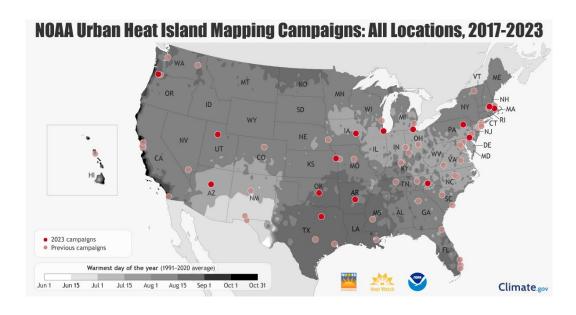


































NOAA Climate & Equity Roundtable Pilots: Heat

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

NOAF

- o Las Vegas, NV
- o Phoenix, AZ
- o Charleston, SC
- o Miami, FL
- The tabletops span timescales including resilience; they are <u>planned</u> with community-based organizations that serve at-risk groups.
- Ex Action: shaded bus stops





NIHHIS Work on Extreme Heat







The launch of Heat.gov spurred over 1050 news articles. reaching a potential audience of 3.6 billion.



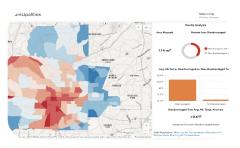
Conducted Urban Heat Island mapping campaigns in 61 communities



Communicated heat messages through 285,600 impressions on Twitter



20K awarded to 10 communities for innovative communications to at-risk populations



Developed 6 new tools/datasets to inform heat resilience





NOAR

Featured congressionals, 7 agency leaders and reached nearly 1,000 attendees.















































Heat.gov

The premier source of heat and health information for the nation

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Heat.gov- Launched July 2022



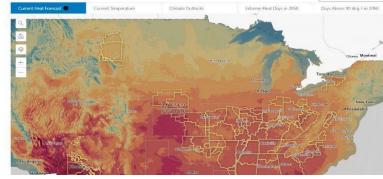


Biden Administration launches Heat.gov with tools for communities facing extreme heat



Current Conditions and Future Outlooks

















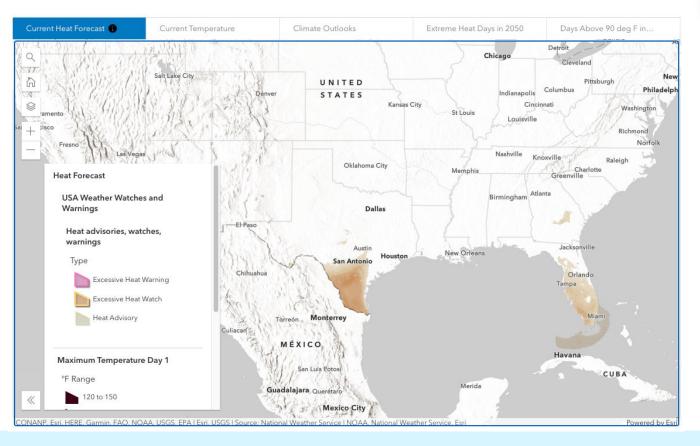






Current Conditions and Future Outlooks

















Climate and Health Outlook

Extreme heat events have long threatened public health in the United States. The CDC Heat & Health Tracker provides local heat and health information so communities can better prepare for and respond to extreme heat events. Use the tool to explore how extreme heat affects your county, populations who are at risk, and response resources.



<u>Climate Prediction Center</u> <u>Probabilistic Extremes</u> Forecast

The Week-2 global probabilistic extremes forecast tool, or GEFS Reforecast Tool, is a model guidance tool that applies statistical adjustments to raw Global Ensemble Forecast System (GEFS) model forecasts.



Extreme Heat Vulnerability Mapping Tool

Overlay NOAA projected heat events and CDC's Social Vulnerability Index (SVI) which uses U.S. Census data to determine the social vulnerability of every county. The SVI ranks each county on 15 social factors, including poverty, lack of vehicle access, and crowded housing, and groups them into four related themes.



Heat.gov Featured Tools









LIHEAP and Extreme Heat



News & Events

Urban Heat Islands

Tools & Information

At Risk Groups

Planning & Preparing

About





















Planning & Preparing

Extreme heat illness and death are largely preventable with proper planning and preparing at all levels.

En Español

- NOAA NWS materiales comunitarios para la seguridad contra el calor
- · OSHA carteles de prevención en el trabajo por la enfermedad del calor, folletos, hojas informativas
- FEMA recursos sobrel el calor extremo
- OSHA programa de estrés por exceso de calor

For Decision Makers

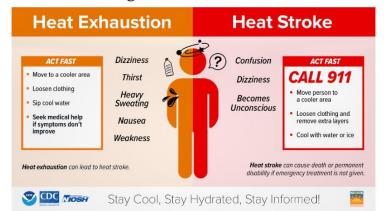
Essential Information from Federal Agencies

- · National Weather Service Heat Safety Tips and Resources (NOAA / NWS)
- Ready.gov Extreme Heat Resources (FEMA)
- Excessive Heat Events Guidebook (EPA)
- · Climate Change and Extreme Heat; What You Can Do to Prepare (EPA)
- Extreme Heat tips, information, and resources (CDC)
- The Use of Cooling Centers to Prevent Heat-Related Illness: Summary of Evidence and Strategies for Implementation (CDC)

Staying Safe During Extreme Heat

Exposure to extreme heat can have many direct effects on human health (heat stroke, reduced labor productivity), as well as indirect effects (promoting air pollution and increasing asthma attacks, overloading power grids requiring rolling blackouts). Negative health outcomes occur if an individual is exposed to the hazard and has not sufficiently adapted to reduce sensitivity.

What are the signs of heat related illness?



Heat-related illnesses happen when the body is not able to properly cool itself. While the body normally cools itself by sweating, during extreme heat, this might not be enough. In these cases, a person's body temperature rises faster than it can cool itself down. This can cause damage to the brain and other vital organs. Types of heat related illnesses include:

· Heat Cramps - Muscular pains and spasms due to heavy exertion. Although heat cramps are



Planning & Preparing Extreme Heat





















Upcoming for NIHHIS in 2023

- Social Media Heat Safety
 Awareness campaign (May)
- 2023 UHI campaigns (Summer)
- Release of the NIHHIS Strategic and Implementation Plan
- International UHI campaign (Winter)



May 15-19 2023



The National Integrated
Heat Health Information
System (NIHHIS)
Interagency
Communications Group will
be holding a heat season
awareness social media
campaign.

#NIHHIS #HeatSafety

Themes over the course of the week

Monday, May 15, 2023 - Heat-related illness awareness

Tuesday, May 16, 2023 - Vulnerabilities (groups that are at higher risk)

Wednesday, May 17, 2023 - Childhood Heatstroke (PVHD)

Thursday, May 18, 2023 - Prevention/preparedness/actions

Friday, May 19, 2023 - Heat and heat-health-related tools







