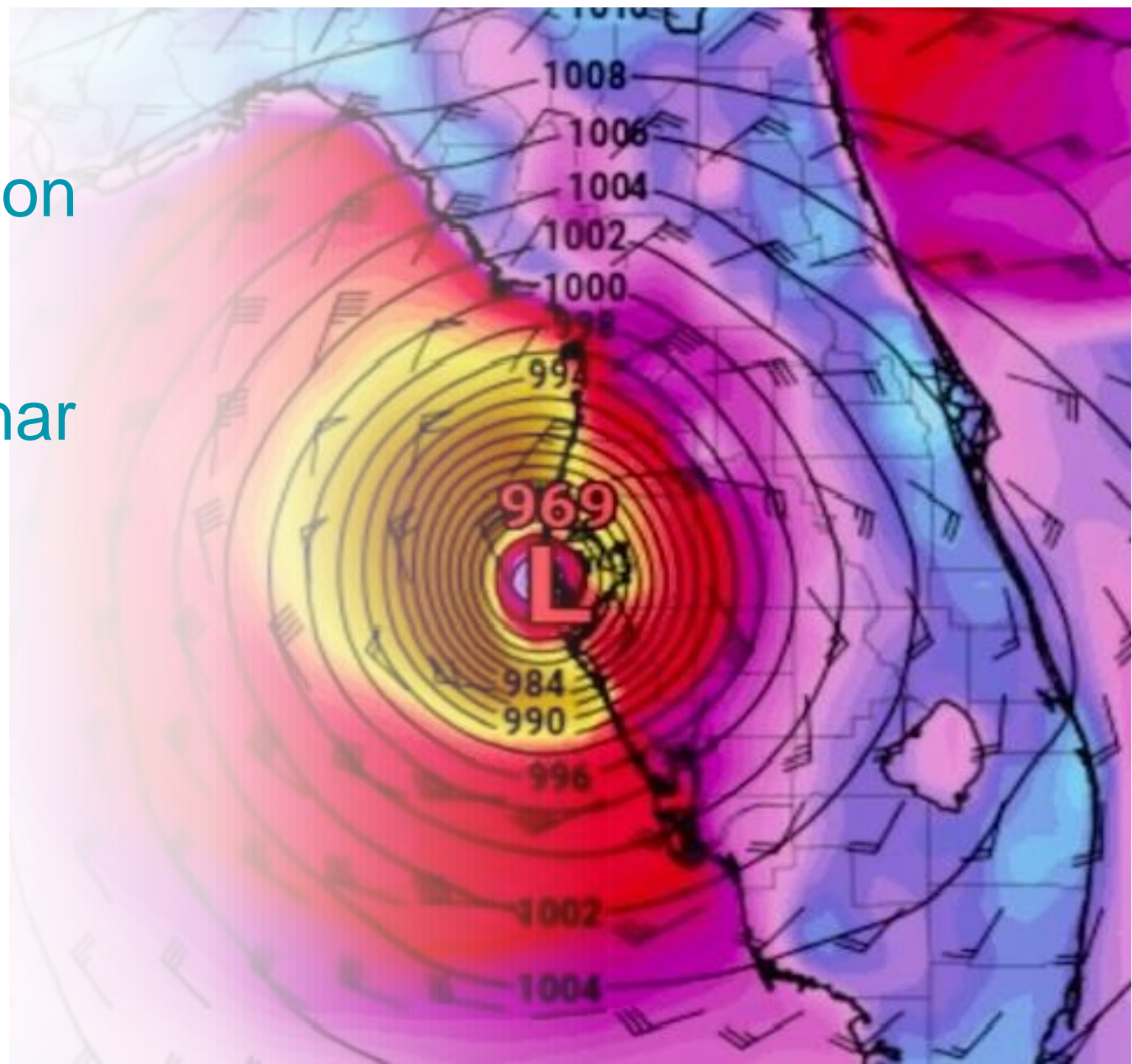

Florida Housing Coalition Hurricane and Climate Resilience Member Update Webinar

August 25, 2023
Sponsored by Fannie Mae



TODAY'S AGENDA

- Welcome – Please put name and org in chat
- Planning to Adapt: Reducing Impacts of Extreme Heat
 - CJ Reynolds, Director, Resilience and Disaster Recovery
 - Lauren Thornberg, Technical Advisor, Disaster Recovery and Resilience
- Upcoming Webinars



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Heat as a Hazard: Shock AND Stressor

Florida summers are always hot, but extreme heat is increasing in frequency and intensity

Record-crushing heat is blasting Florida, with no clear end

More record highs and heat indexes approaching 110 degrees are ahead



By Ian Livingston

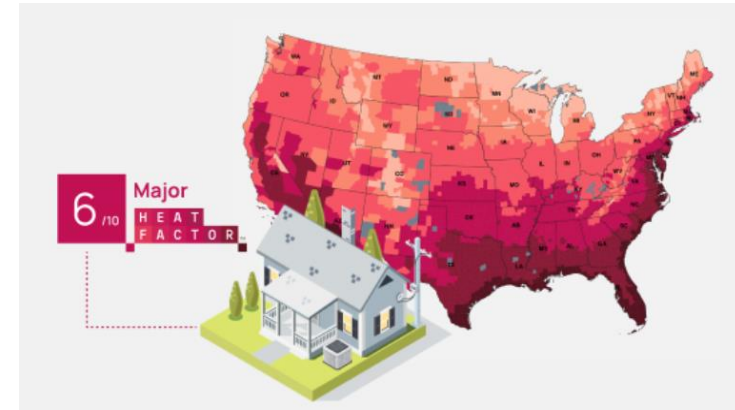
July 6, 2023 at 1:03 p.m. EDT

Florida heat wave: New excessive heat watch issued for Central Florida with heat index to soar above 113 again

Excessive heat remains into next week



Fannie



Environment Climate Weather Climate Solutions Animals Climate Lab Green Living

For Florida's Hurricane Ian survivors, extreme heat is a 'second disaster'

The state's record-breaking weather shows how compound climate events hurt the most vulnerable

Pressure builds for FEMA to declare deadly heat events as disasters

Proponents say a federal disaster designation could save lives by providing vital services and reimbursing states for being proactive

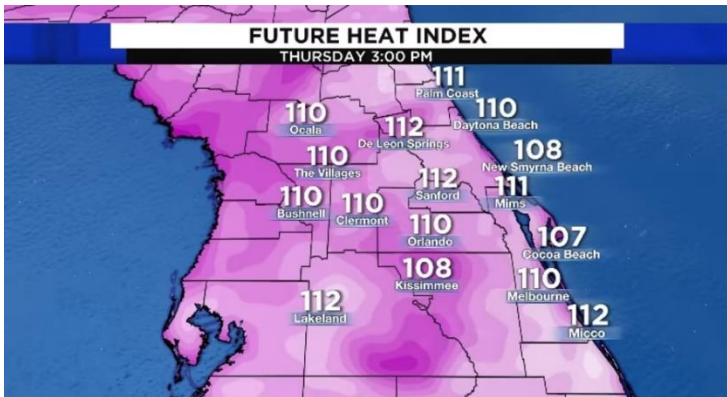


Understanding The Heat Index

NOAA's National Weather Service

Example:

High temp of 94F with
humidity at 72% = 114



Heat Index
Temperature (°F)

	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	130	136
45	80	82	84	87	89	93	96	100	104	109	114	119	124	130	137	
50	81	83	85	88	91	95	99	103	108	113	118	124	131	137		
55	81	84	86	89	93	97	101	106	112	117	124	130	137			
60	82	84	88	91	95	100	105	110	116	123	129	137				
65	82	85	89	93	98	103	108	114	121	128	136					
70	83	86	90	95	100	105	112	119	126	134						
75	84	88	92	97	103	109	116	124	132							
80	84	89	94	100	106	113	121	129								
85	85	90	96	102	110	117	126	135								
90	86	91	98	105	113	122	131									
95	86	93	100	108	117	127										
100	87	95	103	112	121	132										

Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity

Caution

Extreme Caution

Danger

Extreme Danger



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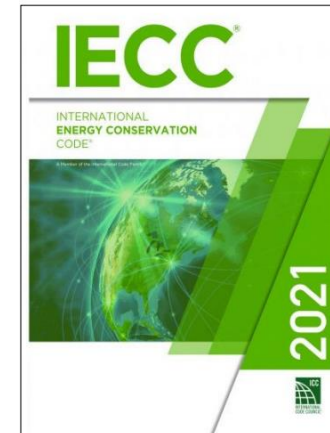
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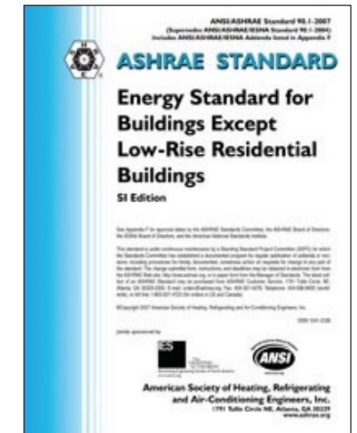
Coming Soon: HUD and USDA Update Min Energy Standards

- Published Update in CFR in May, comment period ended August.
- Notice to increase Minimum Energy Standard
- Adoption of Energy Efficiency Standards for New Construction of HUD- and USDA-Financed Housing to use 2021 International Energy Conservation Code
 - HUD last updated energy codes in 2015 -- 2009 edition of the IECC for single family/low rise buildings and 2007 edition of ASHRAE 90.1 for multifamily buildings with 4 or more stories.
 - HUD and USDA are currently four code editions behind the statutory requirements.
 - Once finalized, this Notice will bring agencies into full compliance with the statute.
- *Energy cost savings for 2021 IECC are estimated by DOE to be almost 35% over the current HUD-USDA standard from 2009*

Single Family and Low Rise Multifamily



Multifamily 4+ Stories



Heat as a Defined Hazard

- As of 2023, FEMA has not made a disaster declaration for extreme heat wave – heat alone does not currently qualify under the Stafford Act
- However, Hazard Mitigation Assistance (HMA) grants can provide funding for mitigation activities
 - Mitigation planning, risk reduction projects, purchasing climate-smart building materials, creating resilience hubs
 - BRIC funding puts heat-related projects at a disadvantage – focus on property damage vs potential lives saved

Find Resources for Applying to & Managing Grants



FEATURED RESOURCE

[Hazard Mitigation Assistance Guidance](#)

Access resources to help interpret federal statutes, regulations and best practices about mitigation strategies.

Search by Title



Filter by Grant Program

Choose some options



Filter by Topic

Choose some options



Filter by Resource Type

Choose some options



Search Media

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Supporting At Risk Populations and Affordable Housing

Boosting your current programs to address the changing conditions

- Annual programs vs. Crisis/emergency vs post-disaster preparedness?
- Are these program timelines:
 - Short-term
 - Mid-term
 - Long-term

Many ways that your organization can increase capacity for responding to heat



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Most Vulnerable to Extreme Heat

Housing and Income considerations

- Very Low and Low-income households
- People experiencing homelessness

Health and Physical aspects

- Older adults
- People with disabilities
- People with chronic medical conditions
- Children
- Outdoor workers



What Does this Mean for Your Organization?

Vulnerable populations you serve have various needs for assistance.

How can you help?

- Immediate, physical safety
- Assessing Populations
- Outreach Education
- Social connection
-And more



Coordinating Organization Efforts

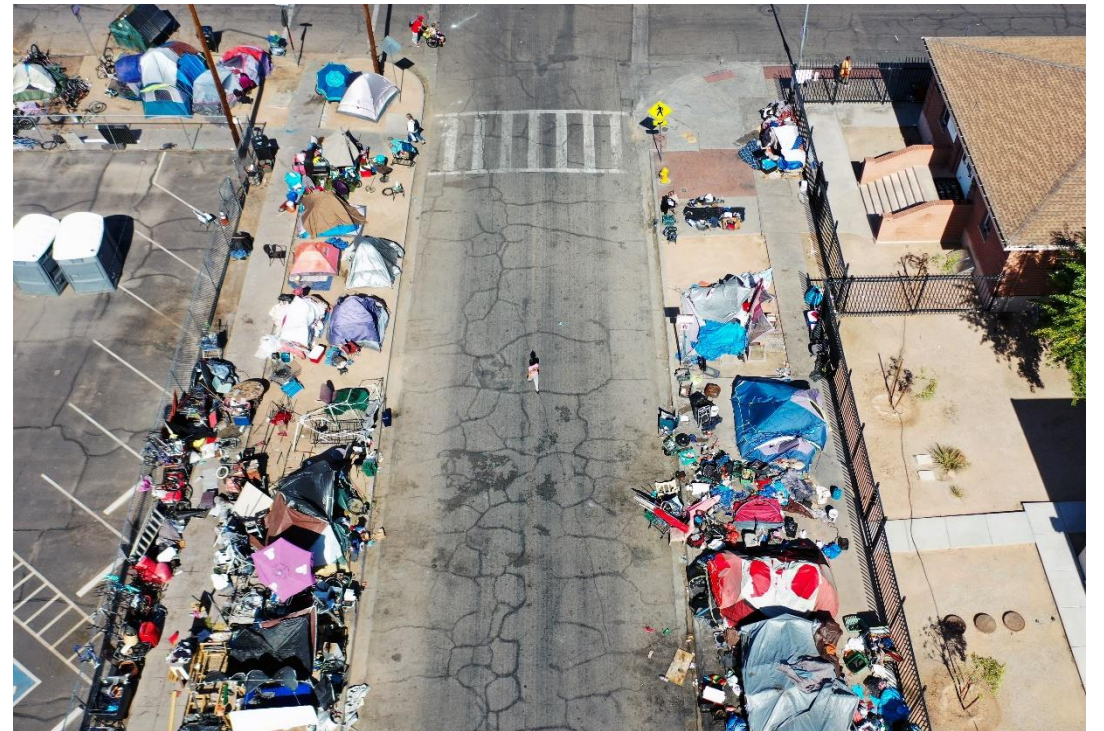
Heat is an increasing hazard, which can be addressed through multiple divisions and departments

- Create a Heat Action Response Team (HART): human services, housing, EM, infrastructure, GIS, neighborhood outreach, resilience/sustainability
- Review existing programs, plans and short and long-term needs, actions, funding
- Identify a team lead
- Consider a Task Force to elevate attention
- Best practices example: Miami-Dade County
 - Chief Heat Officer
 - Heat and Health Task Force
 - [Extreme Heat Action Plan](#)



Human Services

- Focus on vulnerable populations
- Acute crisis interventions for people experiencing homelessness
- Florida Commerce Low-Income Heat and Energy Assistance Program allocations to community action agencies
- Collaboration with other agencies to create mid- and long-term solutions



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Housing Team Heat Analysis

- When evaluating existing housing, there are opportunities for reducing extreme heat burden in multifamily housing
 - Window and AC modifications/upgrades
 - Light-colored shingles or green roofs
- HUD Green and Resilient Retrofit Program
- Weatherization programs



Emergency Management

- Create or use existing emergency management frameworks for extreme heat
- Define strategies for both consistent extreme heat and post-disaster extreme heat
 - Disaster housing recovery plan needs to acknowledge possible impacts to AC and increased risks – what can you do?



Post-Disaster Heat Safety

- After a disaster, danger from heat increases
 - Single family homes and mobile homes
 - Short and long-term power outages
- Disaster Case management, volunteer groups
- Aggregate data to track and quantify actions: numbers of minor repairs vs. full replacement
 - Coordinate LTRG activities, consider bulk orders
 - Short-term vs longer-term solutions



Resilience and Sustainability

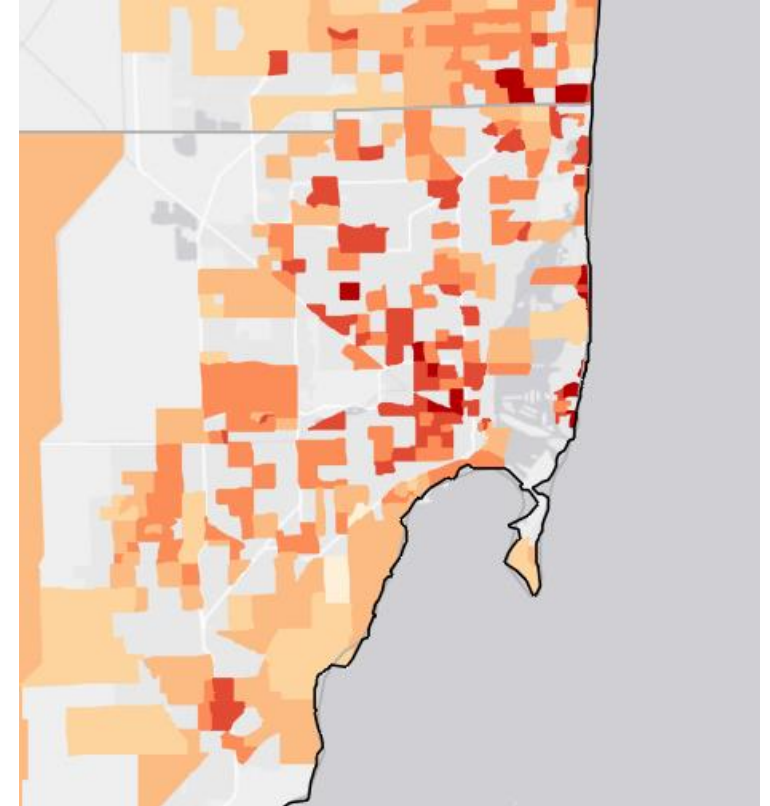
- Leading organization-wide planning
- Heat risks and long-term resilience to develop programs and enhance preparedness
- Sustainability programs – from energy to green measures have myriad benefits -- conservation, innovation, and well-being



Identifying Vulnerable Populations

Who is at most at risk and where do they live....

- Basic heat GIS activities
 - [Census tract-level heat map](#) from Yale Center on Climate Change and Health
 - Low-income neighborhoods
 - Layer Census data, social vulnerability – age, income
 - Multi-family assisted housing -- Shimberg Assisted Housing Inventory
 - Mapping – urban heat islands
- Define needs by populations and community areas.



A close-up, low-angle shot of a thermometer with a red liquid column. The thermometer has two scales: Celsius on the left (ranging from -20 to 50) and Fahrenheit on the right (ranging from 20 to 120). The background is a bright blue sky with scattered white clouds and a large, glowing sun in the upper center, creating a lens flare effect. The overall tone is warm and urgent.

What Can Your Organization do Immediately?

Short-term Solutions for Extreme Heat

Support Immediate, Physical Safety

Open cooling shelters and relief centers near high-risk communities

- Public and non-profit locations
- Consider staffing for day and night

Covered outdoor spaces, AC, misters, seating, coolers

Reduce barriers to access:

- Provide transportation,
- Address physical mobility issues
- [CDC Guide for Cooling Centers](#)



Unhoused/Homeless Populations

- Coordinated outreach
- Identify encampments and hangouts
- Identify public spaces and vacant commercial buildings for potential shelters
- Future webinars with FHC Ending Homelessness Team



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Outreach and Education

- Develop materials which support specific populations – not general information
- Collaborate with organizations and community groups serving key vulnerable populations
- Translate heat materials into commonly spoken languages
- Consider literacy levels
- Implement multi-level outreach strategies – location, events, properties

HAZARD ALERT
CPWR

WORKING IN HOT WEATHER



Am I in danger?

OSHA says that each year, thousands of workers get sick from heat exhaustion or heat stroke. **Some even die.**

You are at risk if you:

- ▶ Work in hot and humid conditions;
- ▶ Do heavy physical labor; and
- ▶ Don't drink enough water.

This risk is greater for workers who are not used to the heat.

But you can protect yourself and feel better as you work by dressing for hot conditions and taking frequent breaks for water and shade.

What to look for...

Signs of **Heat Exhaustion:**

- ▶ Weakness and wet skin
- ▶ Headache, dizziness or fainting
- ▶ Nausea or vomiting

Signs of **Heat Stroke:**

- ▶ Confusion or fainting
- ▶ May stop sweating – dry, hot skin
- ▶ Convulsions or seizures

Get help if you or a co-worker has these signs. HEAT STROKE IS A MEDICAL EMERGENCY. IT CAN BE DEADLY. If a co-worker shows signs of heat stroke, **call 911.**



If you think you are in danger:
Contact your supervisor.
Contact your union.
Call OSHA
1-800-321-OSHA

Protect yourself ...



1 Dress for hot conditions
Wear clothes that are:

- ▶ Light colored (white, etc.)
- ▶ Loose-fitting
- ▶ Lightweight

Wearing heavy protective clothing or personal protective equipment may increase your risk; you may need more frequent breaks for rest and water.



2 Drink Water
Drink water every 15 minutes when working in hot conditions.
DO NOT wait until you are thirsty to drink water.
DO NOT drink alcohol and **AVOID** caffeine.



3 Take Breaks
Take frequent rest breaks in shaded, cooled or air-conditioned areas.
If you see a co-worker with symptoms of **Heat Exhaustion**, speak up.
If you see a co-worker with symptoms of **Heat Stroke**, seek medical attention immediately!

Your employer should:

- ▶ Have a heat illness prevention program and emergency plan.
- ▶ Provide training on heat hazards and steps to prevent heat-related illnesses.
- ▶ Provide clean, cool water – about 4 cups (that's two 16-ounce bottles) each hour.
- ▶ Schedule frequent breaks in shaded or cooled areas.
- ▶ Gradually increase workloads for workers new to the heat.

Learn more about heat-related illnesses and how to prevent them at
<http://bit.ly/CPWRHotWeather>
To receive copies of this Hazard Alert and cards on other topics
Call 301-578-8500

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www.cprw.com

Targeting specifically outdoor workers

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Support Increased Social Connection

- Encourage neighborhood and community "buddy systems" heat checks
- Plan additional indoor social events in target neighborhoods
 - Multi-family properties
 - Community centers, places of worship
 - Games, trivia, readings, book clubs
 - Meal and a Movie – potentially later hours



Heat Program Resources

- [Miami-Dade County Heat Action Plan](#)
- [Census Tract-Level Heat Map](#)
- [Heat.gov](#)
- [HUD Heat Emergencies Protocol for People Experiencing Homelessness Quick Guide](#)
- [Low Income Heat and Energy Assistance Program and Extreme Heat](#)
- [Florida Commerce Low-Income Heat and Energy Assistance Program](#)

Federal Frameworks

- [FEMA](#)
- [USDA](#)
- [CDC](#)
- [EPA](#)
- [Planning Tools for Combatting Extreme Heat](#)

Upcoming Webinars



9/13/2023 2:00-3:30pm

Resilient By Design - Creating Disaster-Resistant Housing Stock

This webinar includes proven examples from architects and engineers on sustainable and resilient solutions.

Learn about resiliency in affordable multifamily residential design, which incorporates advanced stormwater infrastructure and building mitigation strategies to proactively reduce the impacts from increased heat, extreme rain, and better protect residents.

Also learn about programs to enhance low-income single family home resilience. Presenters will provide recommendations for specific home hardening strategies and construction requirements which can also reduce insurance premiums and explore the wide variety of funding sources available to fortify homes.

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Upcoming Webinars



9/20/2023 10:00-11:30am

Right sizing your Local Government Contribution to Housing Development

This training will address subsidy layering on multi-family and single-family development.

Local governments and developers alike are analyzing what public funding is needed to create affordability for the tenant. Understanding how to evaluate sources and uses to ensure that the financing to fill the gap or bring down the total development cost is not oversubscribed can be complicated.

Attendees in this webinar will dive into applications selected for funding and evaluate the project's scope and financing plans that resulted in feasibility with the appropriate level of government contributions.

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Upcoming Webinars



Best SHIP Practices in Serving Special Needs and Homeless Households

This training will address using SHIP to help special needs households and households experiencing homelessness. Community presenters will discuss SHIP strategies utilized for these populations.

9/28/2023 10:00-11:30am

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Technical Assistance is Available

Daily Assistance:
1 (800) 677-4548

Options for Further Assistance Include:

Phone and Email consultation
Site Visits

**Register at www.flhousing.org for:
Webinars and Other Events**

And Now...

The Posting of the PowerPoint!

PowerPoint is available in Chat



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