



Community Planning for Extreme Heat

RCAP 2.0 Implementation Workshop: The Invisible Threat

November 8, 2021

Jane Gilbert, Chief Heat Officer Miami-Dade County



TODAY

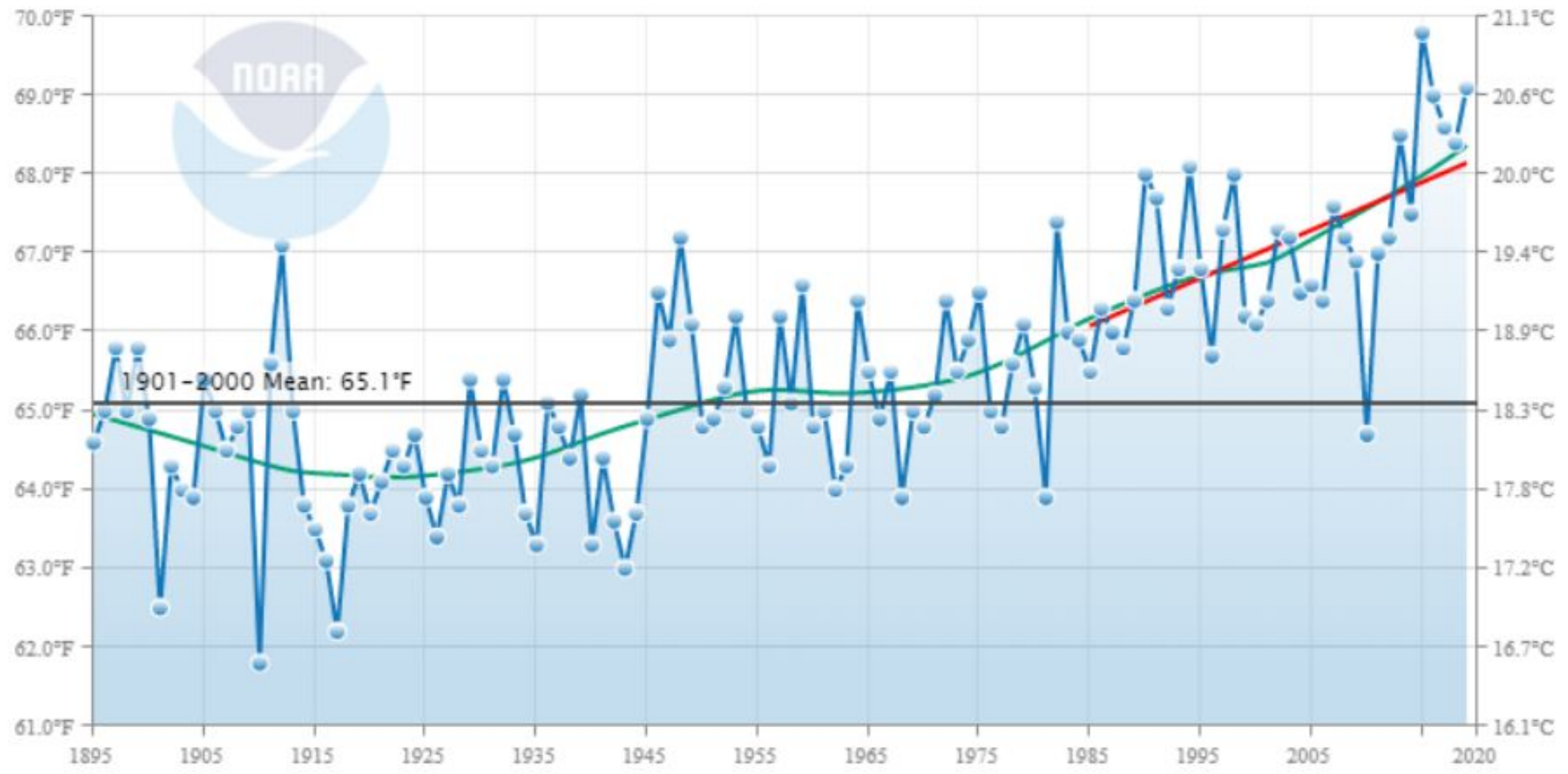
1. Heat risks in Southeast Florida
2. Why and What is a Chief Heat Officer (CHO)
3. Addressing heat risks in a diverse community

Heat Risks in Southeast Florida



Miami-Dade County, Florida Minimum Temperature

Smooth Trend Line
1985-2019 Trend (+0.6°F/Decade)



MIAMI-DADE COUNTY

Heat Index above	Historical (1971-2000)	By midcentury (2036-2065)	By late century (2070-2099)	By late century, if we limit warming to 2°C (2070-2099)
90°F -----	154 days	187 days	200 days	183 days
100°F -----	41 days	134 days	166 days	115 days
105°F -----	7 days	88 days	138 days	60 days
Off the Charts	0 days	1 days	14 days	0 days



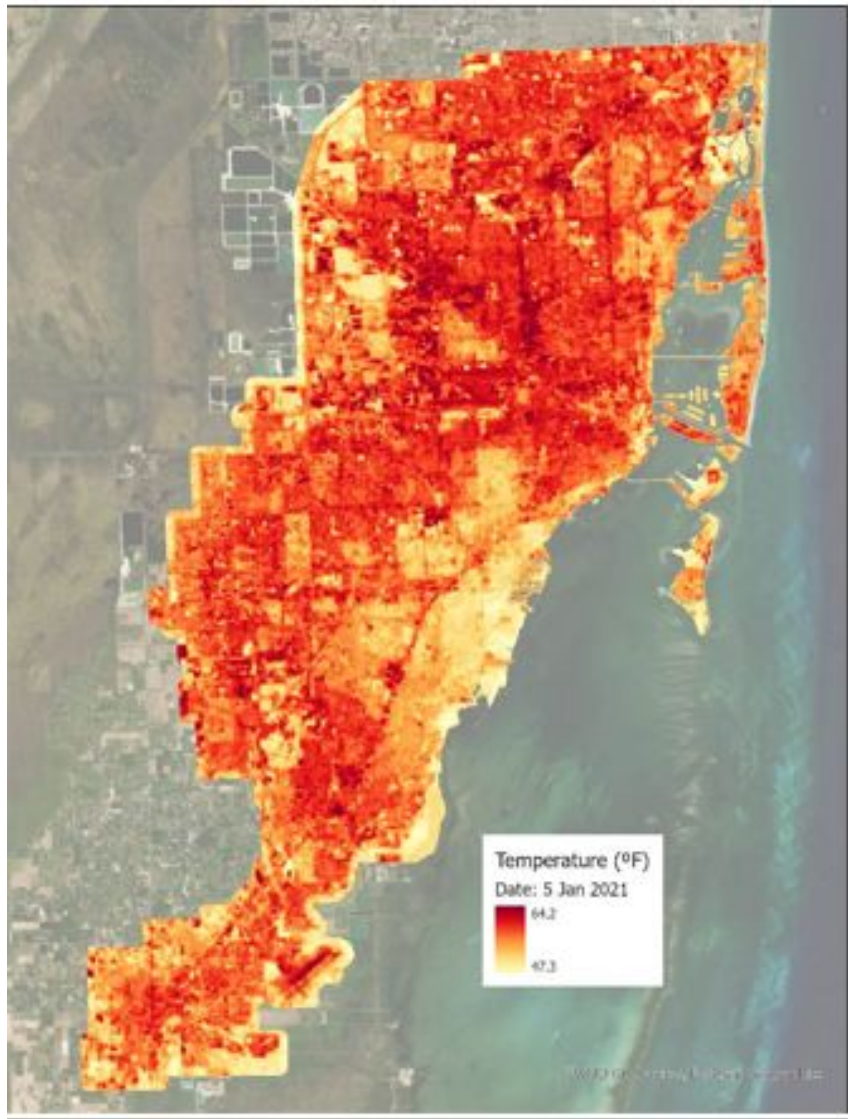
Health and Economic Risks at Home



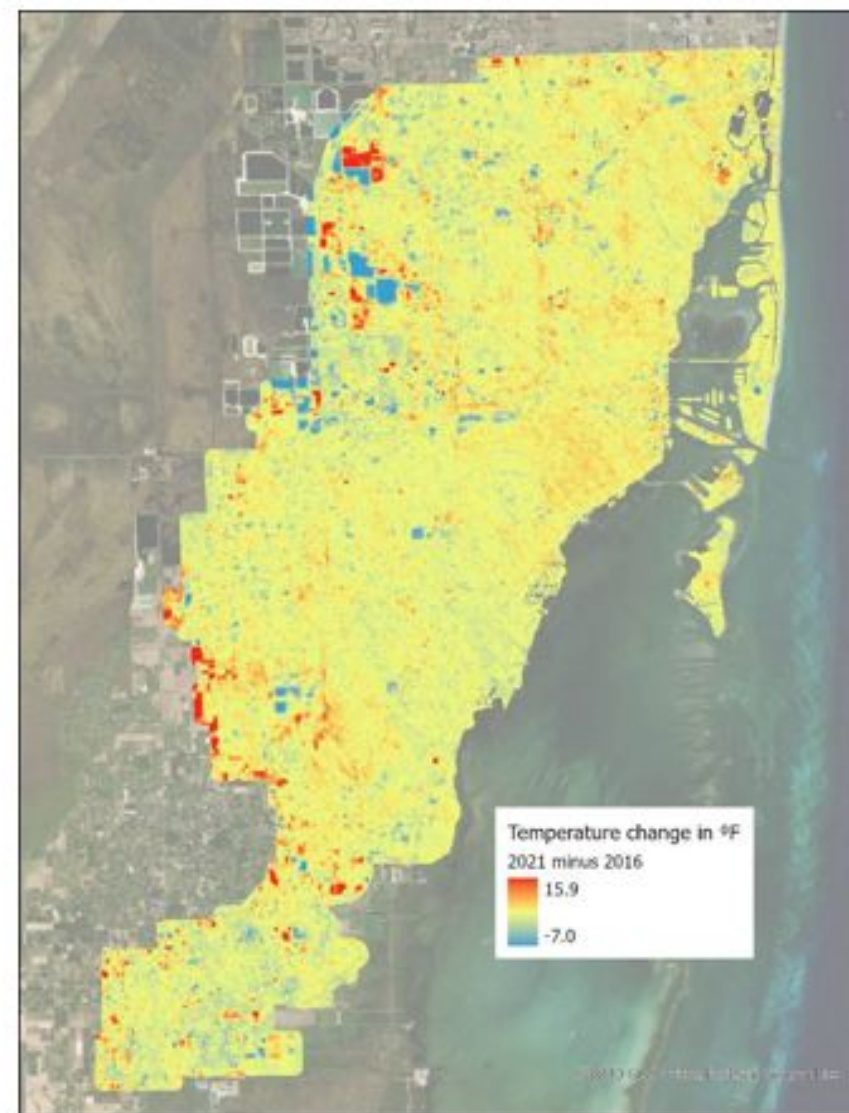
<https://ephtracking.cdc.gov>

Health and Economic Risks at Work

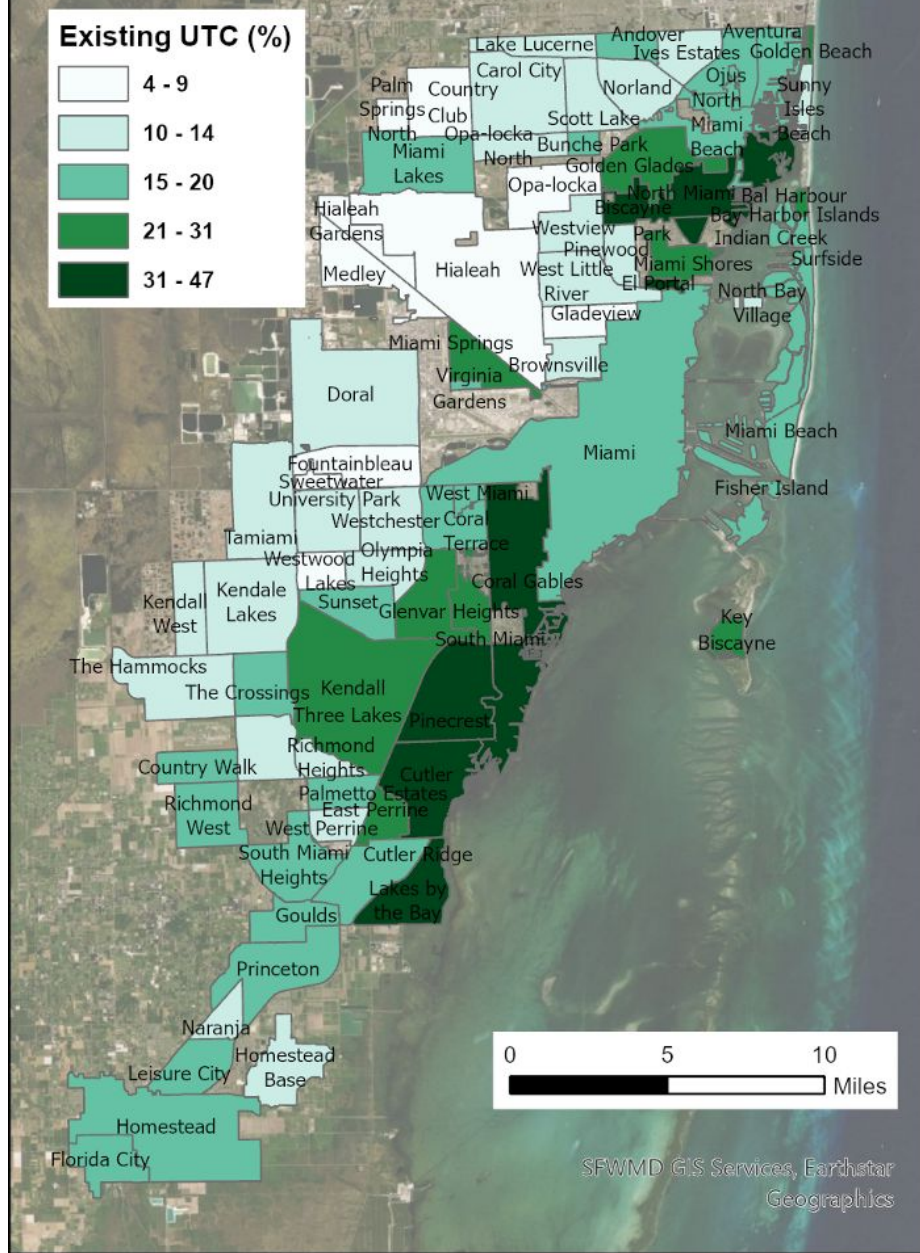


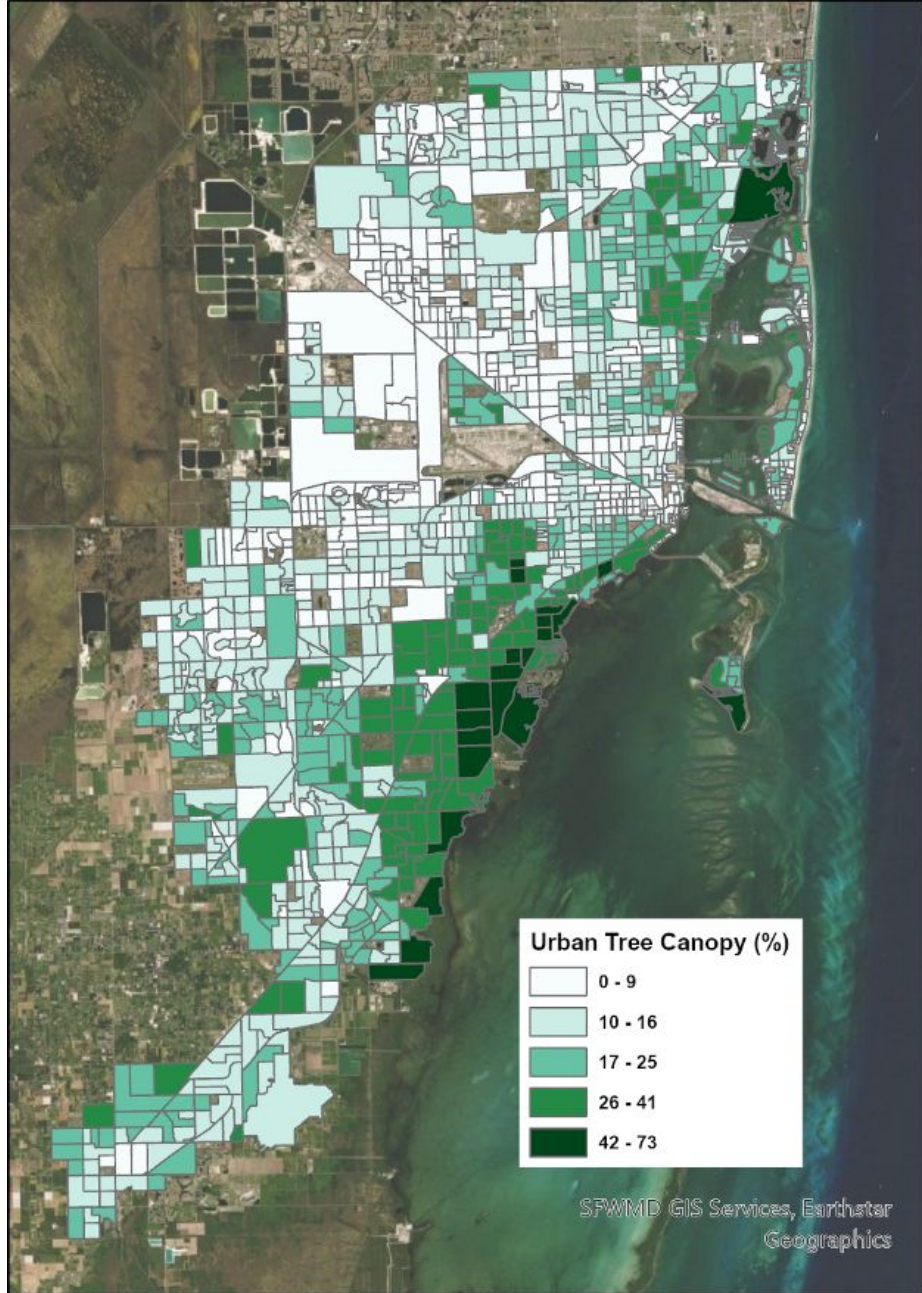
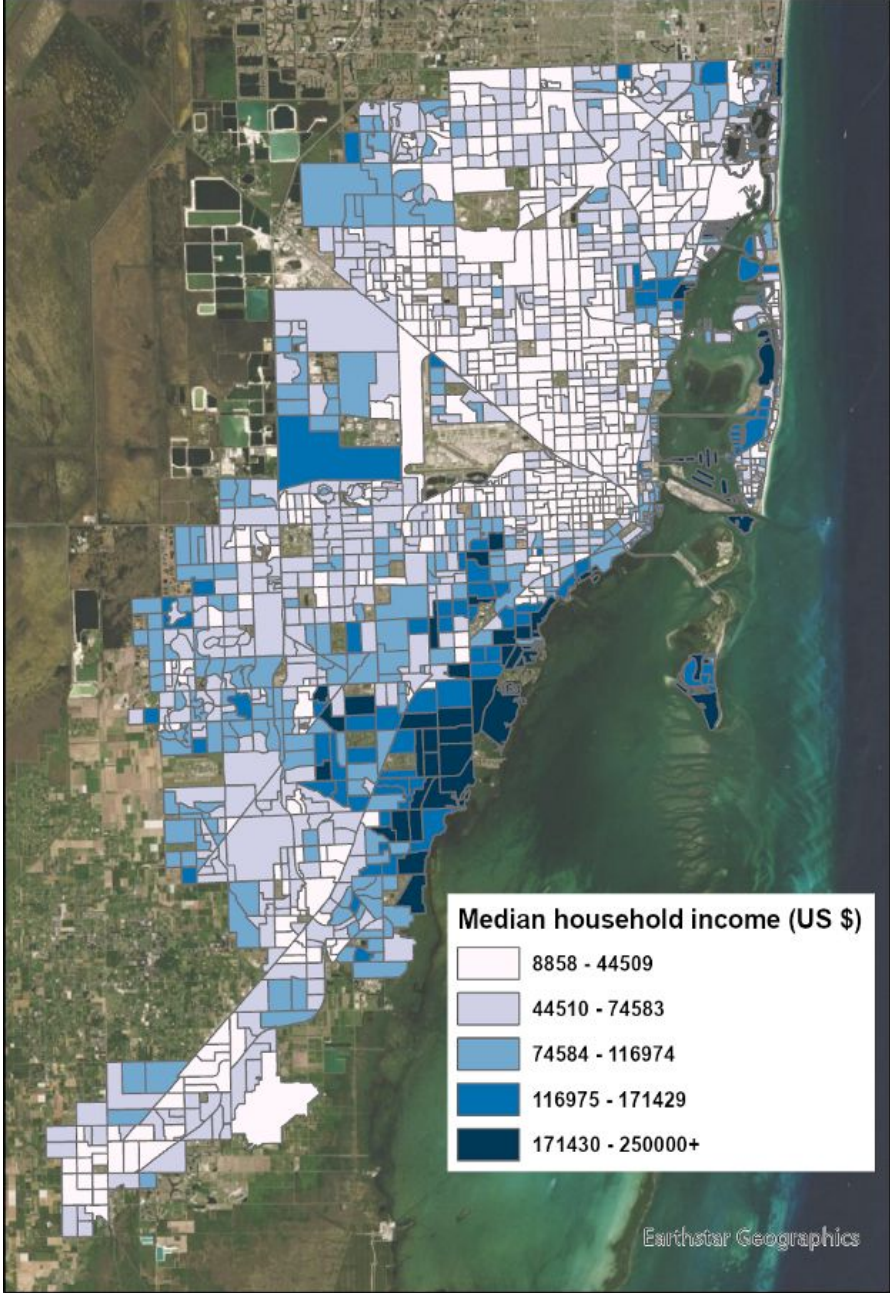


Surface temperature in (°F)
on 01/05/21



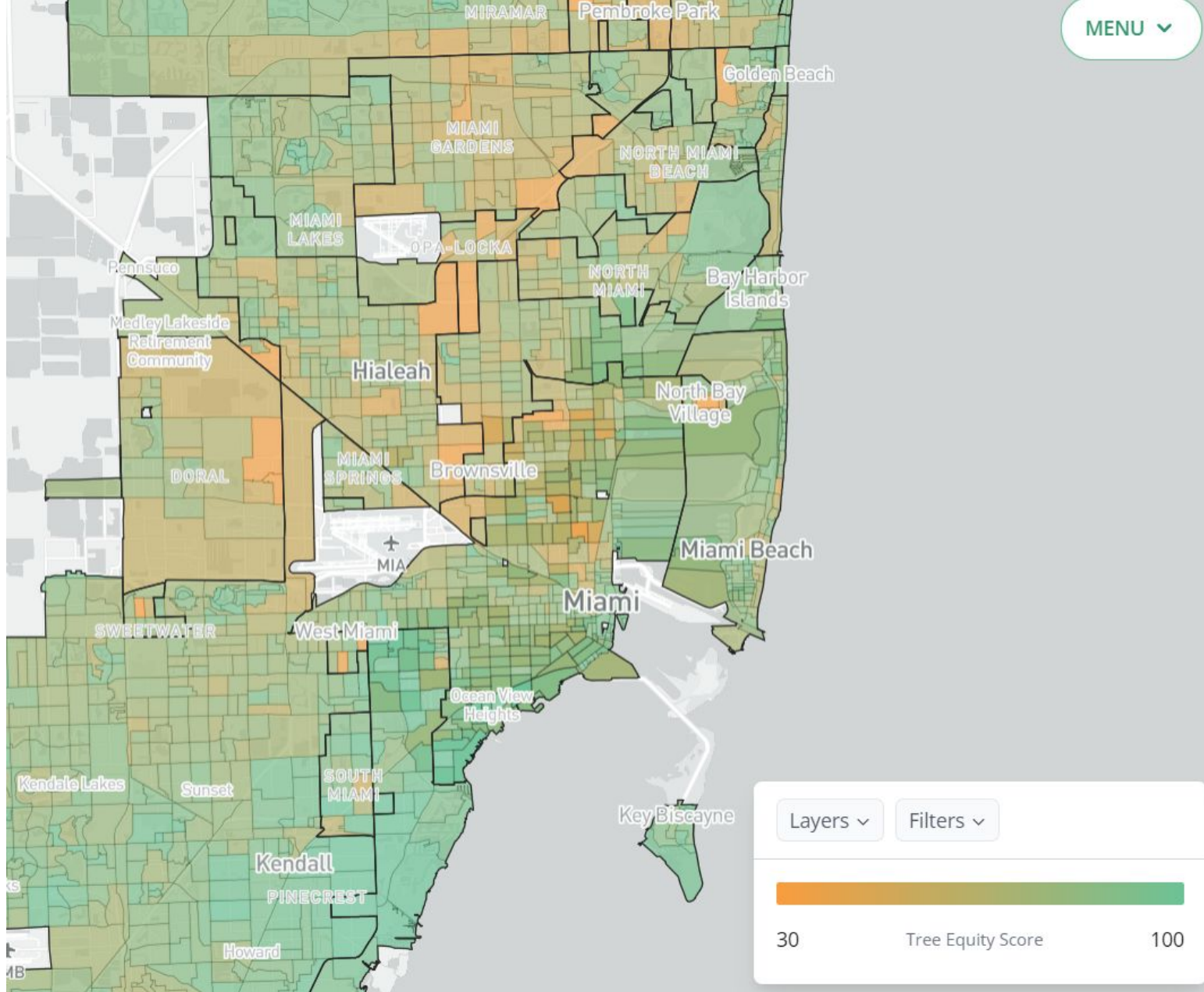
Temperature change in (°F)
between 01/24/2016 and 01/05/21







TREE EQUITY SCORE



Why and What is a Chief Heat Officer?





Adrienne **Arsht-**
Rockefeller Foundation
Resilience Center

The
Miami
Foundation
For A Greater Miami



305 RESILIENT

P.I.V.O.T.

Progress Innovation & Vision for Our Tomorrow







MIAMI BEACH

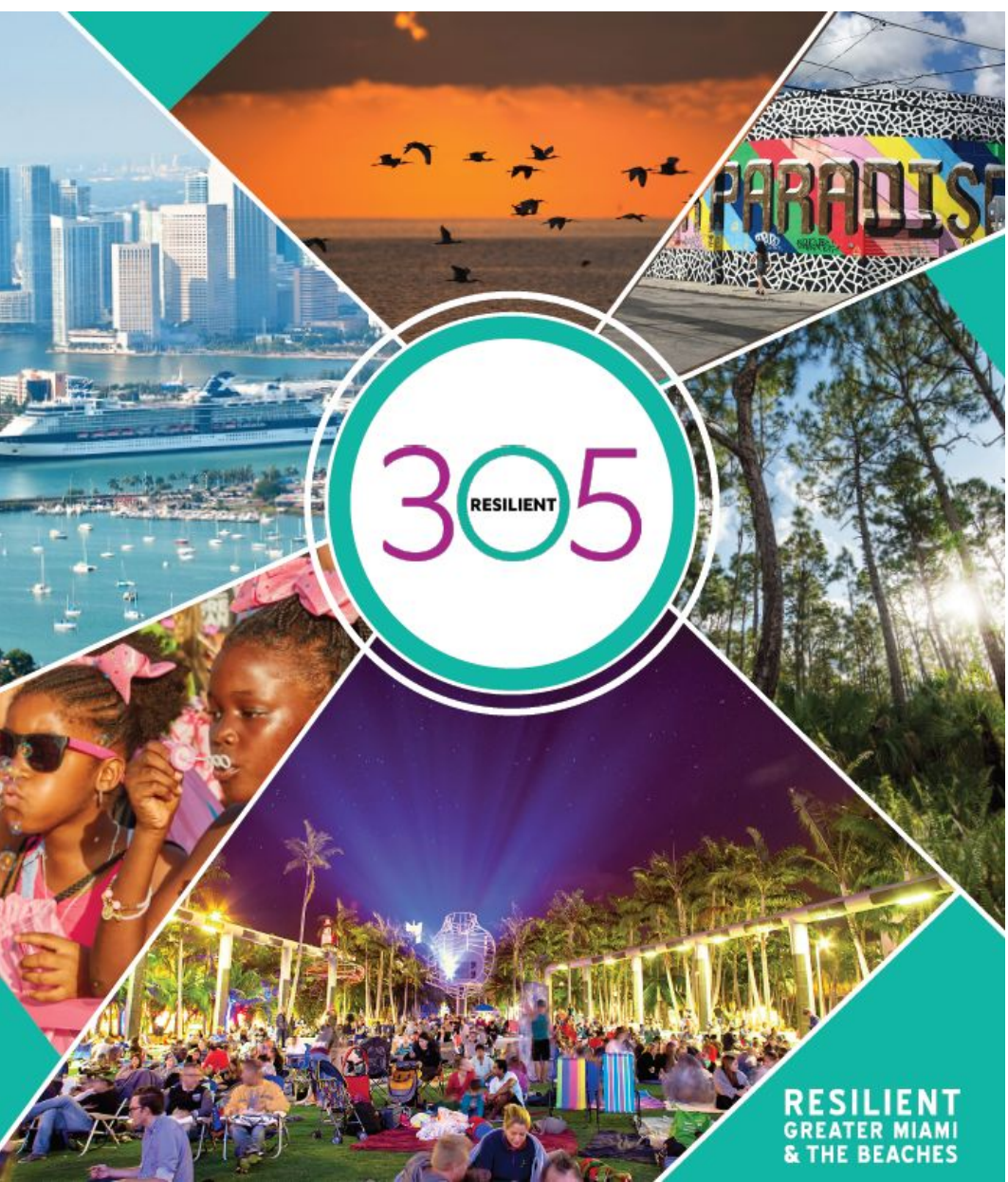


Miami-Dade County's Office of Resilience



MITIGATION	ADAPTATION	COMMUNICATION	BISCAYNE BAY	EXTREME HEAT
reduce sources of climate change	address climate change impacts	engage & connect	protect & restore	accelerate & coordinate efforts
				

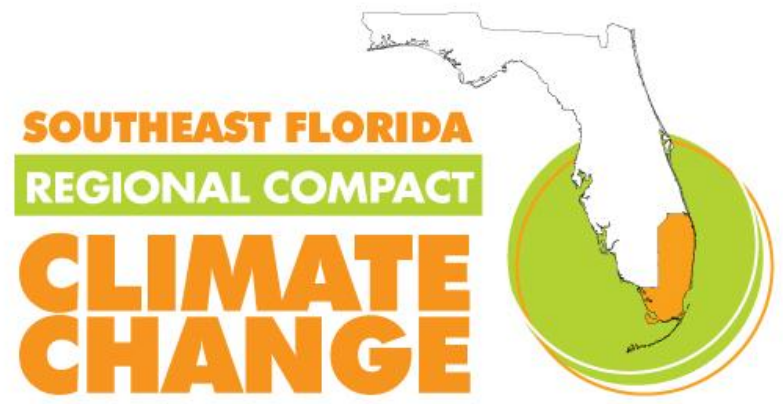




Connected Strategies



Collaboration is key



Climate & Heat Health Task Force



Goals:

- Prioritize short term actions
- Create framework for monitoring progress
- Recommend staffing & other resource needs for implementation
- Equitable representation
- Best available science

The Task Force will be made up of appointed members representing policy makers, scientific experts, and health care professionals as well as two citizen members who will ensure community voices are heard and lifted up in the formation of the heat plan.

Addressing Heat Risks in a Diverse Community



Climate & Heat Health Tool Kit



Guiding principles:

- **Be equitable** by recognizing that historic discriminatory policies have led some residents to have fewer resources to adapt to climate change. Actions should be driven by inclusive engagement, fair policies, and direct investments to target these disparities.
- **Reduce environmental pollution** by not adding greenhouse gas emissions or other pollutants to our air and waterways. Actions should not be implemented at the expense of the environment and human health.
- **Make us safer** by helping the community adapt to extreme heat now while implementing long-term solutions to help mitigate future impacts. Actions should not increase vulnerability to other hazards.
- **Be flexible** and able to respond to changing conditions. Actions should be adaptable to future conditions.
- **Build with nature** by working with natural processes and natural materials to address extreme heat. Actions should implement green nature-based solutions when feasible.
- **Align with other County initiatives and plans** such as the Sea Level Rise Strategy, Climate Action Strategy, Comprehensive Development Master Plan, the Long-Range Transportation Plan, the Parks and Open Space Systems Master Plan, the Resilient305 Strategy and others. Actions should complement other long-term planning initiatives.

Climate & Heat Health Tool Kit

Environment



Expand & Preserve Urban Tree Canopy



Protect & expand habitat



Green our playgrounds



Depave



Support community gardens



Adapt Cooling Centers



Pilot innovative materials



Prioritize affordable housing



Enhance pedestrian and biker experience



Implement the Better Bus Network



Enhance public transportation services



Pilot innovative streetscapes

Infrastructure



Scale weatherization program



Implement active and passive cooling



Enhance equitable access



Shade Bus Stops



Partner with schools



Create Heat Health PSAs

Community Engagement



Enhance Data on Health outcomes



Establish Public/Private Partnerships



Integrate Heat into Plans



Complete Heat Action Plan



Support regulations for workers' rights



Communicate heat warnings/advisories



Prioritize workforce education and training



Create Neighborhood Heat Ambassador Program



Develop & Maintain Networks

Practique SEGURIDAD a Donde Qu

Las muertes relacion
son evitables. Prote
de los impactos de



weather.



MIAMI-DADE PARKS, RECREATION
AND OPEN SPACES DEPARTMENT

2. Tell a story about a time you felt hot when you were not at summer camp.

3. What is your favorite way to cool down when you feel hot? You can write or draw your answer.

4. What would you build or create to help stay cool during the summer? You can write or draw your answer in the space below.



En el Interior

Revise a los ancianos,
enfermos y aquellos sin
acondicionador de aire.



Al Aire Libre

Limite actividades extenuantes
al aire libre, busque sombra,
y manténgase hidratado.

Solar power helped shelter shine through Irma

James Dean Florida Today

Published 10:34 p.m. ET Sept. 24, 2017

[View Comments](#)



After Hurricane Irma blew through Brevard County on Sept. 11, guests who had sheltered at Apollo Elementary School in Titusville lined up for cups of hot coffee and access to phone chargers.

Power had gone out the night before and the school had no backup generator. But one building was connected to a 10-kilowatt array of solar panels whose batteries provided juice to run lights and outlets for phones, nebulizers and a coffee maker.



Heat Risk Mitigation



JOIN THE COMMUNITY EMERGENCY RESPONSE TEAM



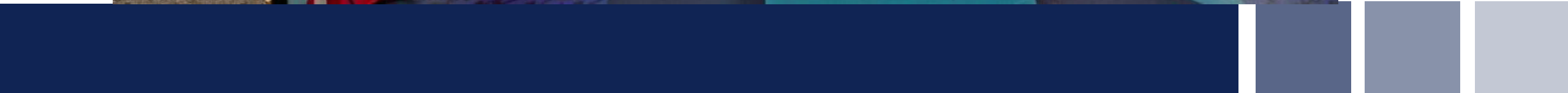
WHAT IS CERT?

The Community Emergency Response Team (CERT) Program educates people about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills.

GET TRAINED

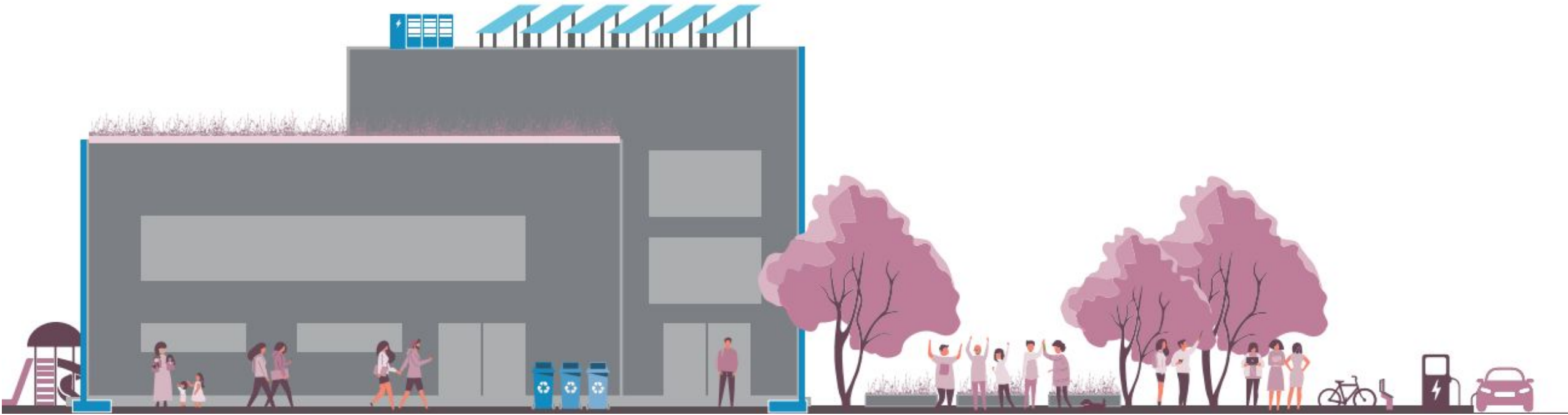
- The FREE training takes place over 2.5 days
- April 25, 27 & 28
- City of Miami Fire Training Center in Coconut Grove





RESILIENCE HUBS

RESILIENCE HUBS use a physical space - a building and its surrounding infrastructure - to meet numerous goals, both physical and social. Resilience hubs are an opportunity to efficiently improve emergency management, reduce climate pollution and enhance community resilience. These spaces also provide opportunities for communities to become more self-determining, socially connected, and successful in the long-term. This document outlines initial thinking about essential elements of a Resilience Hub and how to begin planning for Hub development.



Legend

Local Mitigation Strategy (LMS) Projects

Status

- Project Complete
- 75% complete
- 50% complete
- 25% complete

Map



Total Projects
1,279

Project Title: **Enterprise Integration System**
 Mitigation Goal: **Provide whole community planning**
 Tracking #: **25,810**
 Address: **88 W McIntyre St**
 City:
 Status: **Future Unfunded Project**
 Entry Type: **New Project**
 Project Type: **Other**
 Entry Date: **9/28/2021, 10:09 AM**
 Agency: **Key Biscayne**
 Agency Type: **Municipalities**
 Estimated Cost: **\$0.00**
 Funding Srouce:

Local Mitigation Strategies (LMS)

Mitigation is a way to lessen

Info Contacts

Status



[Status](#)
[Project Type](#)
[Agency](#)
[Agency Type](#)
[Funding Source](#)
[Creation Date](#)
[Last Edited](#)
[Entry Date](#)

Heat Risk Mitigation



“I still am afraid for my life because of the heat and I still need to work...We are the workers that put food on the table and we suffer through the heat.”

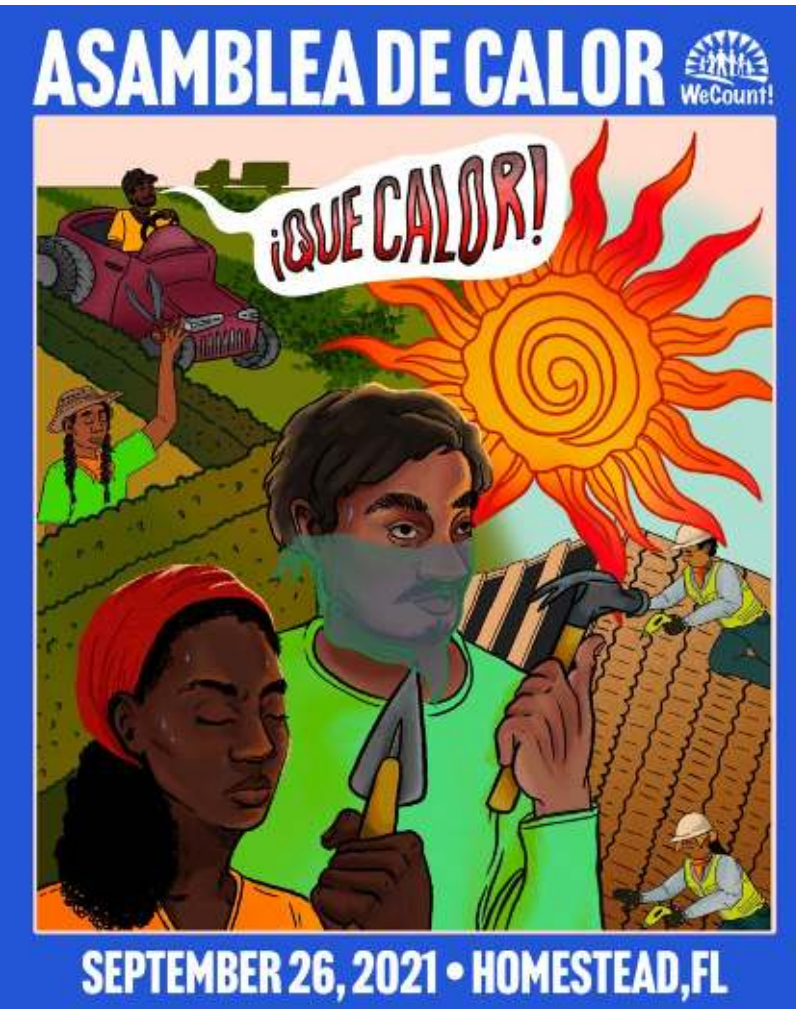
NBC News: Why are workers in the U.S. still dying from heat exhaustion?

“I didn’t want to go home. I needed to work and buy food. I didn’t want to lose hours...It’s getting hotter. Even when I started five years ago, it was less hot...I ask myself – what’s going to happen?”

USA Today: Climate change, heat waves affect heart health, experts say. Here’s why that puts people of color at higher risk.



Heat Risk Mitigation





THANK YOU!

Jane Gilbert

Interim Chief Heat Officer

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Sign up for the resilience newsletter: miamidade.gov/resilience