SHADE SD

City of San Diego Extreme Heat Action Planning

June 2026

Why the Extreme Heat Action Plan?

Extreme heat is the deadliest weather and climate related hazard

Hot days are becoming hotter and more frequent. The risk is widespread but not distributed equally.

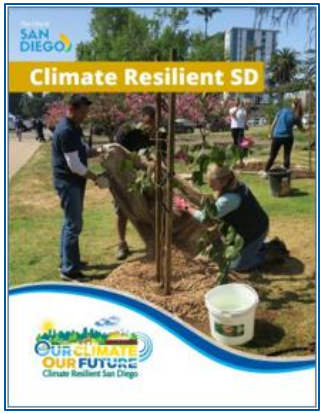
Extreme heat exacerbates household energy cost burden and impacts economy.

Heat adaptation is opportunity to provide multiple community benefits.

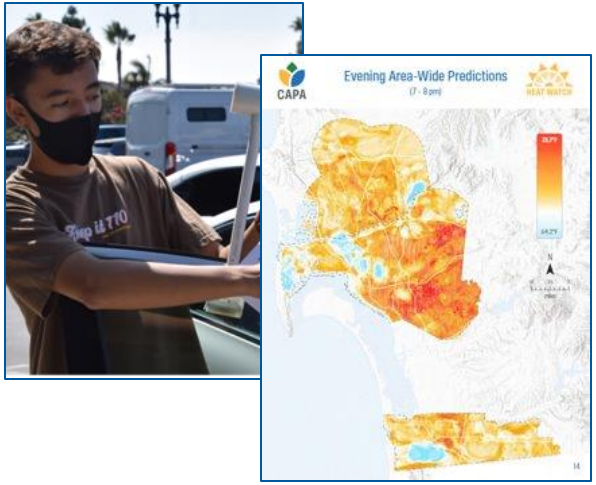
The City of SAN DIEGO

Background

Climate Resilient SD



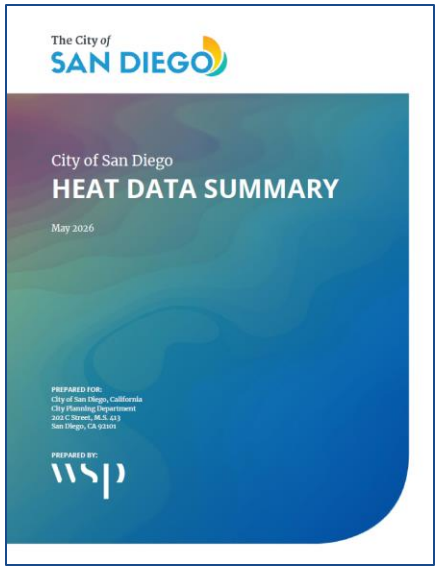
Community Heat Mapping



Urban Heat Vulnerability Index

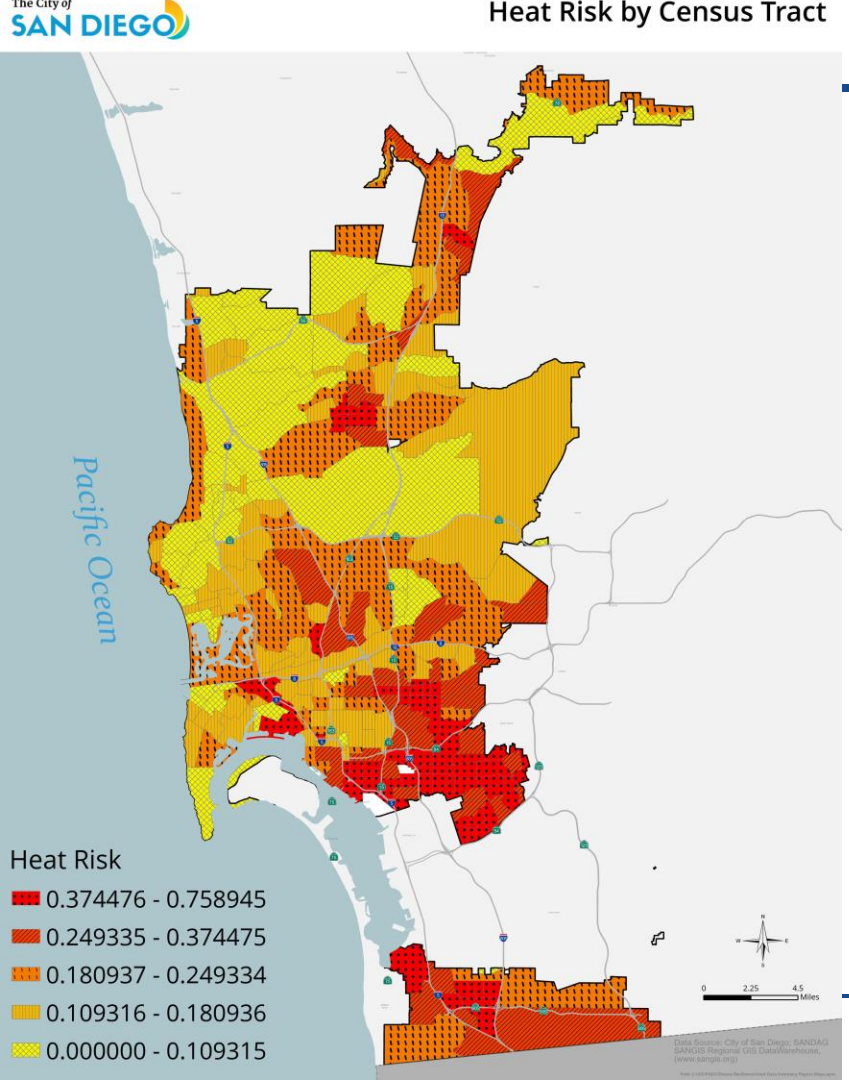
The City of SAN DIEGO

Heat Data Summary



Purpose

- Synthesize best available data, considering exposure, vulnerability, adaptive capacity, and risk
- Evaluate current and future heat conditions
- Assess who and where is most at risk
- Complete landscape analysis of heat tools and City policies and plans
- Identify opportunities to improve heat response, preparedness and planning

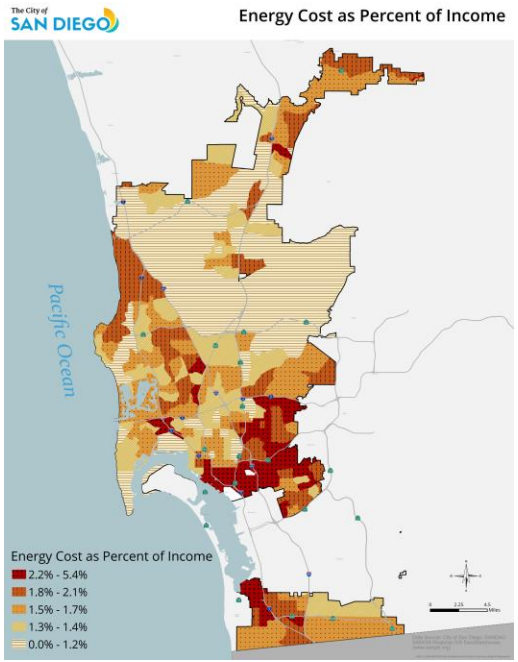


Heat Data Summary

Highest Heat Risk

- City Heights
- Eastern Area
- College Area
- Encanto
- Barrio Logan
- Southeastern San Diego
- San Ysidro
- Otay Mesa-Nestor

Heat Data Summary

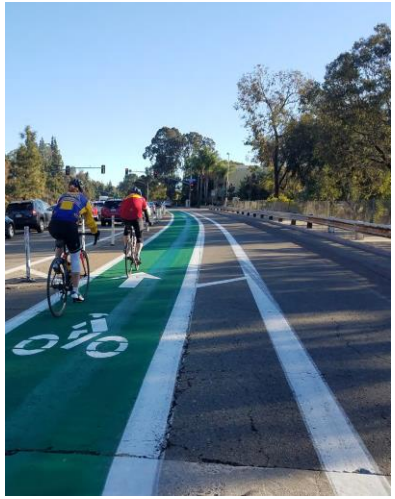


Public Health Risk

- Heat illness and injury ER visit: 194 annual average (SD County)
- Increasing burden on emergency services
- Priority populations: older adults, young children, pregnant people, outdoor workers, unhoused, communities of color, people with existing health conditions, energy burdened households

The City of SAN DIEGO

Heat Data Summary



Infrastructure Risk

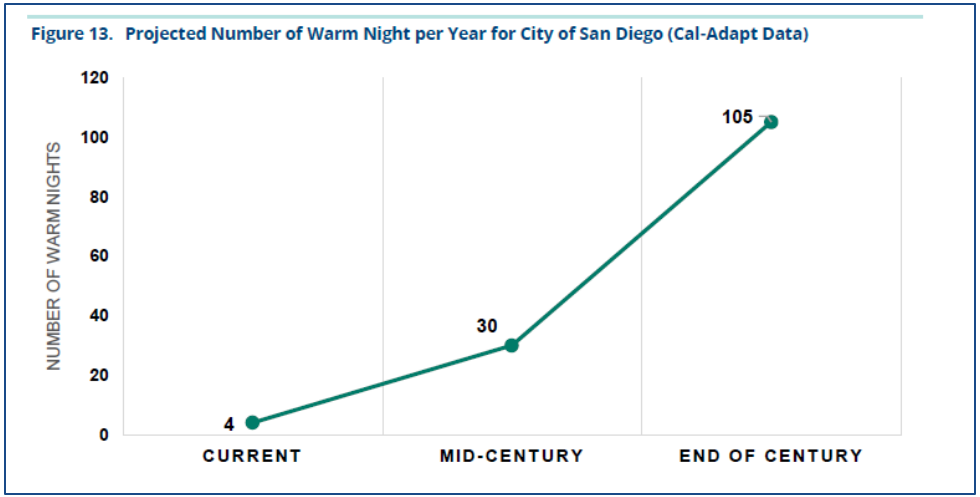
- Heat damages roads, rail, and electrical systems
- Increase strain on energy grid
- Increase risk of power outages

Economic Impacts

- Reduces worker productivity, increase workplace injuries
- Outdoor workers face elevated risk
- California workplace heat injuries cost an estimated $525–875M annually

The City of SAN DIEGO

Future Heat Conditions

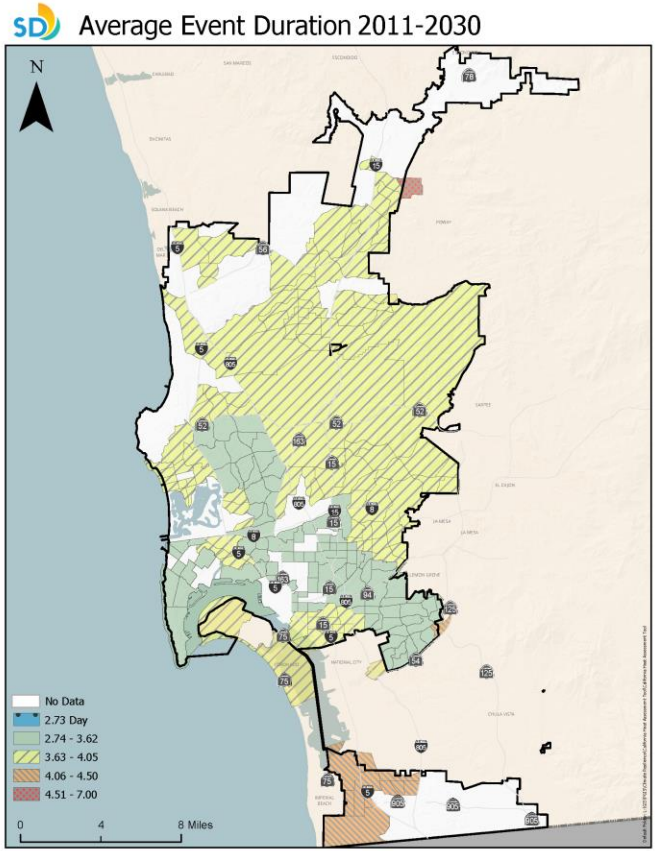


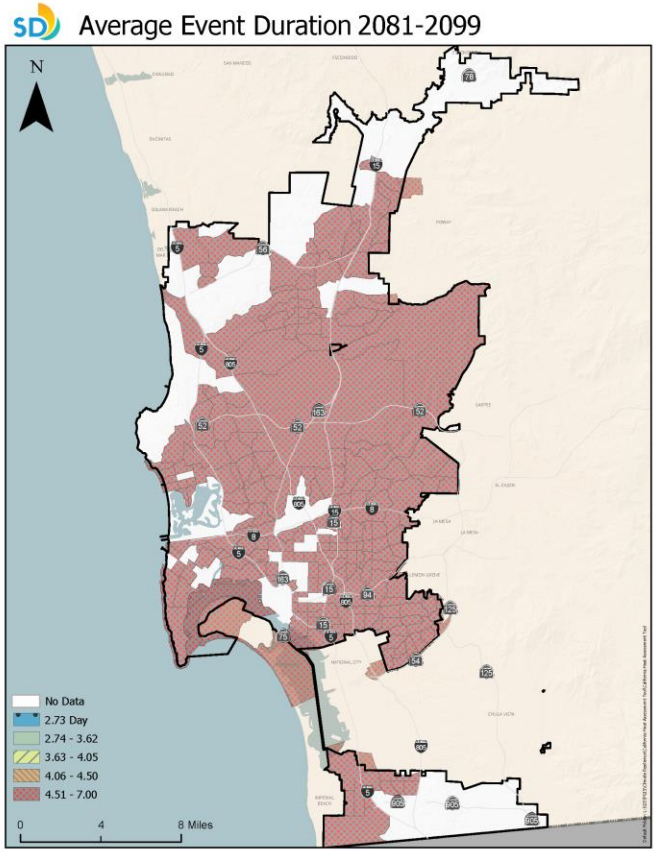
Increasing

- Exreme heat days
- Warm nights
- Heat-related health events
- Longer heat seasons

The City of SAN DIEGO

Future Heat Conditions





The City of SAN DIEGO

Opportunities Identified

- Improve use and integration of heat datasets
- Engage communities to better understand lived experiences and local needs
- Develop Extreme Heat Response Protocol
- Integrate heat considerations into planning and investment decisions
- Expand coordination among City departments and external partners

Thank you!

Scan QR code to learn more

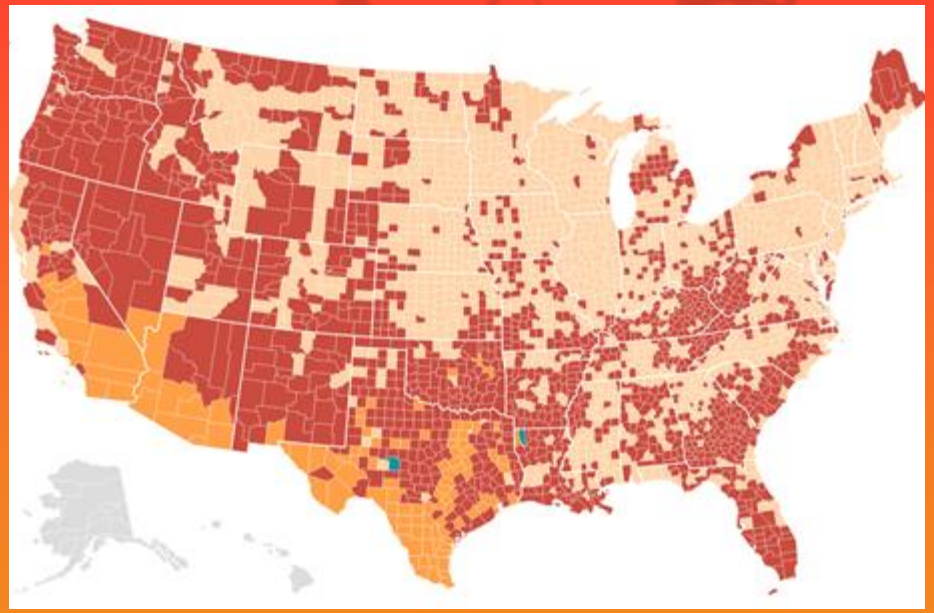
SOLUTIONS FOR HEAT ADAPTATION AND EQUITY IN SAN DIEGO

SHADE SD

Project Partners

San Diego is Heating Up...

As average temperatures continue to rise and heat waves lengthen, the gap between heat risk and heat “worry” is widening - this may impede activating and preparing our decisionmakers and community members for extreme heat events.



Heat Risk Perception Gap Map, Yale Program on Climate Change Communication

Higher Risk, Higher Worry

Higher Risk, Lower Worry

Lower Risk, Higher Worry

Lower Risk, Lower Worry

...So We're Throwing SHADE. Literally.

In the face of increasing extreme heat impacts, how might we…

- *Leverage existing partnerships to expand heat mitigation and adaptation efforts?*
- *Empower communities to effectively combat and withstand extreme heat events?*

SHADE SD aims to reduce barriers and enable widespread extreme heat action planning for local agencies and communities across the San Diego region through capacity-building, collaborative action, and solution focused projects.

Regional Project Benefits

Resources

Regional resources created throughout the project will provide clear planning guidance and tools that can be utilized region-wide to accelerate heat planning and solutions adoption.

Solutions

Regional solutions and pilots identified throughout the project will provide a blueprint for applications and projects ready for future funding pathways.

Community

Activated practitioner networks and engaged communities will lead efforts collaboratively to bring the region together to tackle and prioritize extreme heat solutions.

Project Momentum

What we're up to next –

- Collecting data on how our communities learn about and experience heat waves, how they stay cool, and what solutions they want to see.

- Working alongside 10 nonprofit organizations through the Community-Led Heat Adaptation Solutions Design Series Cohort to develop heat action strategies.

- Building a comprehensive, accessible, and multilingual communications and education campaign for heat action and heat safety.

City of La Mesa staff at Bike Anywhere Day

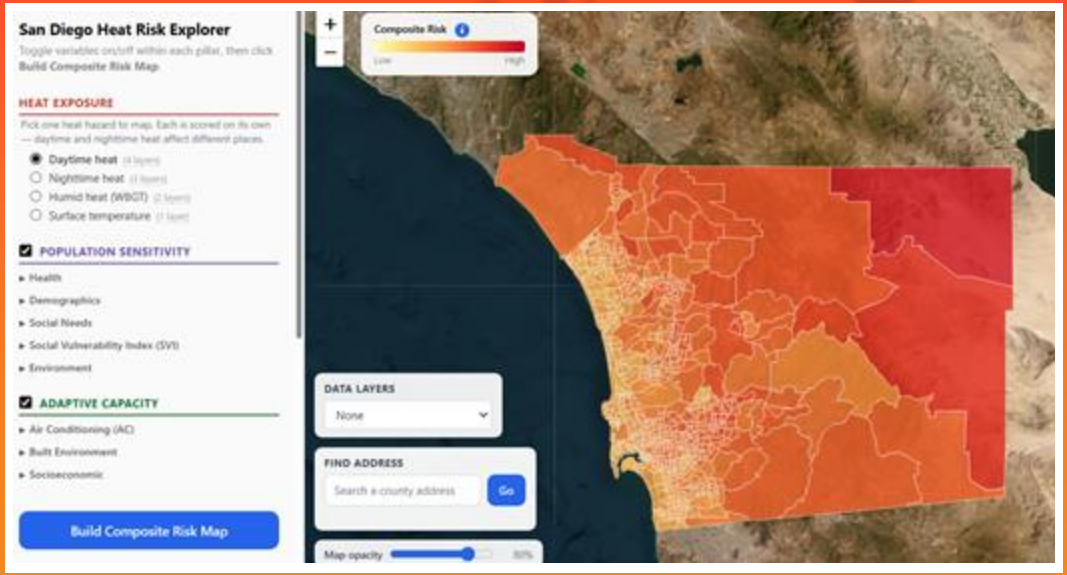
Adriana Quezada, SHADE SD's Extreme Heat Community Artist

Understanding “Who’s Hot” in Our Region

- San Diego’s unique geographic and socioeconomic landscapes impact “how” and “where” our communities are affected by heat waves and complicates regional planning efforts
- Key to effectively preparing for future extreme heat events and and implementing effective cooling solutions is the need to identify how and which communities are most affected by these events
- Scientists at Scripps Institution of Oceanography have been working with SDRCC to bridge this regional data gap and develop the first interactive localized heat risk map of San Diego County

The San Diego Heat Risk Explorer is Hot Off the Press!

shadesd.org



Scan the QR code or visit **shadesd.org** to access the tool!

Help San Diego Stay Cool!

Do you live, work, or recreate in the San Diego county region? Take this quick, 3-minute survey to share your experiences with heat waves in San Diego and what cooling solutions you want to see in your community!

Your Survey Input Will:

- Identify and prioritize cooling strategies that will be impactful in your community
- Contribute to a regional effort to identify solutions to combat heat waves in the region
- Improve cooling resources available to communities across the region

Take the Survey Here