



California Healthy Places Index: Extreme Heat Edition

8/30/2022



WWW.SCAG.CA.GOV

Housekeeping

1. Meeting length: 1.5 hour
2. This meeting is being recorded
3. All participant lines will be muted
4. At the end, there will be a Q&A session
5. If you have a question during the presentation, please type it into the chat box or press the "raise hand" function
6. We will log all questions and then voice a selection at the end of the presentation
7. A recording of this webinar and the PowerPoint slides will be available on the SCAG website. We will send a link to everyone who has registered after the event



California Healthy Places Index

Extreme Heat Edition

Coline Bodenreider
Data Analyst

Colleen Callahan
Co-Executive Director



*Public Health Alliance is fiscally administered
by the Public Health Institute*



UCLA Luskin Center
for Innovation

**Our mission is to solve
environmental challenges through
collaborative, actionable research
for California's communities, our
nation and world.**

PUBLIC HEALTH ALLIANCE OF SOUTHERN CALIFORNIA



Our Mission

Mobilize the transformative power of local public health for enduring health equity

10 Local Health Departments

- Imperial
- Long Beach
- Los Angeles
- Orange County
- Pasadena
- Riverside
- Santa Barbara
- San Bernardino
- San Diego
- Ventura

OVERVIEW OF TODAY'S PRESENTATION



Healthy Places Index 101



What's new in HPI 3.0?



Introduction to HPI: Extreme Heat Edition



Using the HPI: Extreme Heat Edition



Q&A

WHY THE HEALTHY PLACES INDEX?

- Life expectancy and well-being are heavily tied to the community conditions in which we live
- Social conditions vary drastically by neighborhood
- For these reasons, the HPI was launched in 2018 and is now in its third evolution
- The tool works to advance health equity through open and accessible data to implement actionable solutions



WHAT IS THE HEALTHY PLACES INDEX?

- HPI provides data and policy recommendations to:
 - Compare the health and well-being of communities at the neighborhood level
 - Quantify the factors that shape health
 - Turn data into actionable solutions
- The HPI has become a **go-to data tool** for hundreds of state and local government agencies, foundations, advocacy groups, hospitals and other organizations

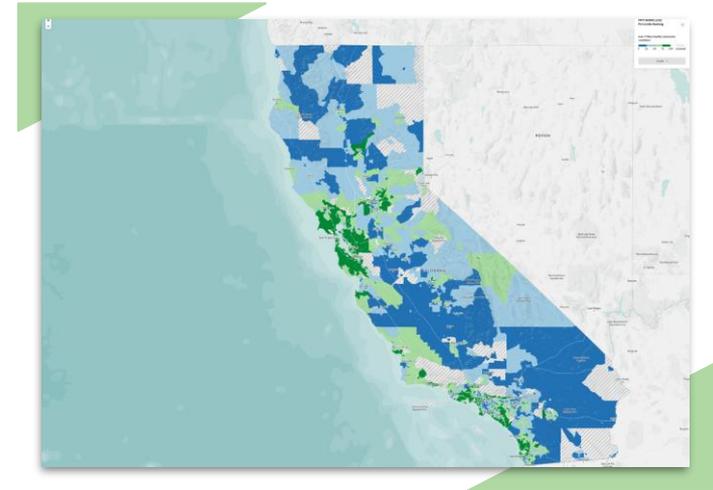
COMMUNITY IMPACT

The HPI has been used to identify and respond to community needs in ways that keep growing and evolving, such as:

- Active transportation funding
- Affordable housing & rental assistance programs
- Food security & nutrition assistance
- Climate-related investments
- COVID-19 Blueprint Health Equity Metric
- And much, much more

WHAT'S NEW IN HPI 3.0?

- Completely updated data
- Emphasis on concordance and continuity with HPI 2.0
- Stronger correlation with life expectancy at birth
- Many new and enhanced features that will make your work quicker and easier



HPI 3.0 POLICY ACTION AREAS & WEIGHTS

<p><u>Economic</u> 35%</p> <ul style="list-style-type: none">• Employed• Per Capita Income• Above Poverty	<p><u>Education</u> 18%</p> <ul style="list-style-type: none">• In Pre-School• In High School• Bachelor's Education or Higher	<p><u>Transportation</u> 13%</p> <ul style="list-style-type: none">• Automobile Access• Active Commuting	<p><u>Social</u> 13%</p> <ul style="list-style-type: none">• Census Response Rate• Voting in 2020
<p><u>Housing</u> 5.3%</p> <ul style="list-style-type: none">• Low-Income Renter Severe Housing Cost Burden• Low-Income Homeowner Severe Housing Cost Burden• Housing Habitability• Uncrowded Housing• Homeownership	<p><u>Healthcare Access</u> 5.3%</p> <ul style="list-style-type: none">• Insured Adults	<p><u>Clean Environment</u> 5.2%</p> <ul style="list-style-type: none">• Ozone• PM 2.5• Diesel PM• Water Contaminants	<p><u>Neighborhood</u> 5.2%</p> <ul style="list-style-type: none">• Retail Density• Park Access• Tree Canopy

RACE & PLACE FRAMING

Applying a race and place frame to data:

- Provides sound, quality data for residents, advocates and leaders
- Helps communities better advocate for their unique needs
- Guides leaders to develop more equitable, community-forward solutions
- Allows leaders and community providers to scale resources appropriately for each region

WHAT CAN I DO WITH THE HPI?

Community leaders, academics, advocates and residents can:

- Explore **community conditions** in their neighborhood, including HPI score and HPI indicators
- View hundreds of **decision support layers**
- **Filter geographies by race**, ethnicity, and country of origin
- Quickly identify high and low **ranked** geographies in an area of interest
- Create custom communities using the **pool** feature

WHAT CAN I DO WITH THE HPI?

Community leaders, academics, advocates and residents can:

- **Compare data** across geographies and time periods
- Examine the link between race and place
- **Filter geographies by race**, ethnicity, and country of origin
- Receive tailored **policy opportunities**
- View **historically redlined** neighborhoods

A photograph of children playing in a fountain at sunset. The scene is bathed in a warm, golden light from the setting sun, which is visible in the upper right corner. The children are silhouetted against the bright background, and their reflections are visible on the wet pavement. The fountain has several vertical jets of water. In the background, there is a bridge with a large arch and some trees.

**WHY SHOULD WE CARE ABOUT
RISING TEMPERATURES?**

MEASURING HEAT IMPACTS AND DESIGNING PROTECTIVE POLICIES IN CALIFORNIA

- Multi-part research initiative on the impacts of extreme heat on vulnerable population groups and communities.
- Equitable strategies to reduce impact in key settings.

Funding provided by the:

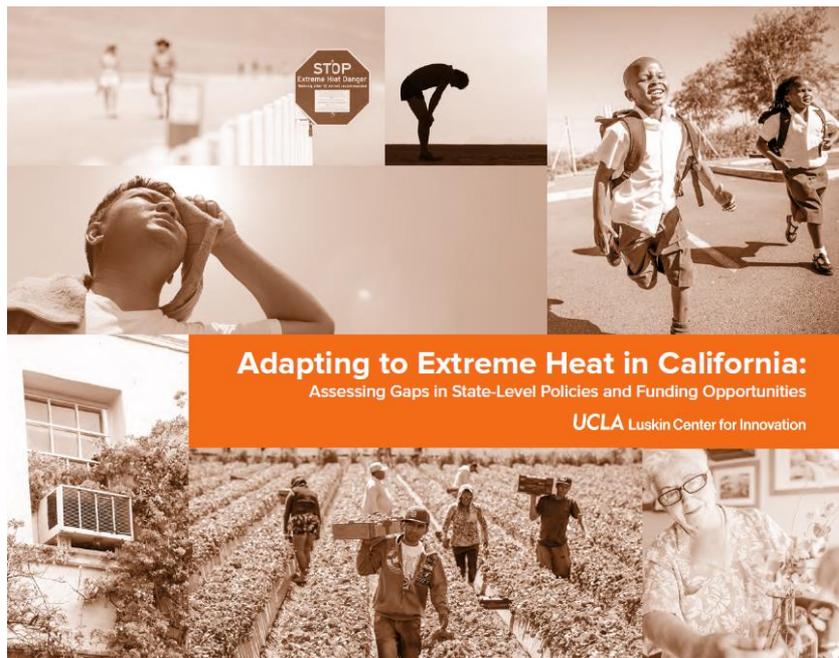


CALIFORNIA
STRATEGIC
GROWTH
COUNCIL

MEASURING HEAT IMPACTS AND DESIGNING PROTECTIVE POLICIES IN CALIFORNIA

- **Workers** - accidents and injury rates
- **Pregnant mothers** - risk of early delivery
- **Low-income households** - energy use, bill costs, disconnection risk
- **Residents of subsidized & manufactured housing** - exposure to heat and wildfire risks
- **Healthy Places Index: Extreme Heat Edition** - spatial tool that can complement Climate Change & Health Vulnerability Indicators for California (CCHVIs)
- **California Heat Policy Gap Analysis** - review of existing regulations and funding opportunities
- **Local planning and urban design** - built environment interventions

CALLING FOR A COMPREHENSIVE APPROACH TO HEAT



DEVELOPMENT OF THE HPI: EXTREME HEAT EDITION

HPI: Extreme Heat Edition Goal

Build on the core California HPI platform to deliver and visualize projected extreme heat at the neighborhood level, paired with measures of place- and population-based vulnerability, for CBOs and state and local government agencies.

Process

1. Solicit **community guidance** from key partners (all phases)
2. Identify, collect, and **produce recommended measures** of HPI: Extreme Heat Edition
3. Develop **new mapping functionality** for the HPI platform in support of climate data and resource/funding opportunities

SUMMARY OF COMMUNITY GUIDANCE

- Focus on **collaborative development**
- Key questions:
 - How do you think you might use a tool like this?
 - What do you think you could learn from this map?
 - What can we improve on the application and/or content to make this tool more useful?

SUMMARY OF COMMUNITY GUIDANCE *(cont.)*



Recommendations from Focus Groups

- Elevate race/ethnicity data in the tool
- Use CalAdapt mid- and end-century framing for extreme heat measures
- Clarify linkage between population- and place-based measures and heat impacts

INTRODUCING HPI: EXTREME HEAT EDITION

- Expands on HPI focused on the **impacts of heat** on the State of California
- Provides **datasets** on projected heat exposure
- Highlights extreme heat **resources and funding opportunities**
- Visualize the intersection of heat exposure and **multiple vulnerability indicators**



WHAT CAN I DO WITH THE HPI: EXTREME HEAT EDITION?

Community leaders, academics, advocates and residents can:

- View neighborhood-level **heat exposure and community resilience** characteristics
- Explore **resources** to address extreme heat
- **Filter** the map to display communities meeting specific criteria
- Visualize **multiple vulnerability indicators** to find places at greatest risk of extreme heat impacts

EXTREME HEAT DEFINITION

We have several options available for extreme heat exposures:

- **Days Above 90° F (2035 - 2064)**
- Days Above 90° F (2070-2099)
- Days Above 100° F (2035 - 2064)
- Days Above 100° F (2070-2099)
- Extreme Heat Days 2035-2064 (above historical baseline)
- Extreme Heat Days 2070-2099 (above historical baseline)

HOW CAN I USE THE HPI: EXTREME HEAT EDITION MAP FEATURES?

Accessing climate and community details for your community

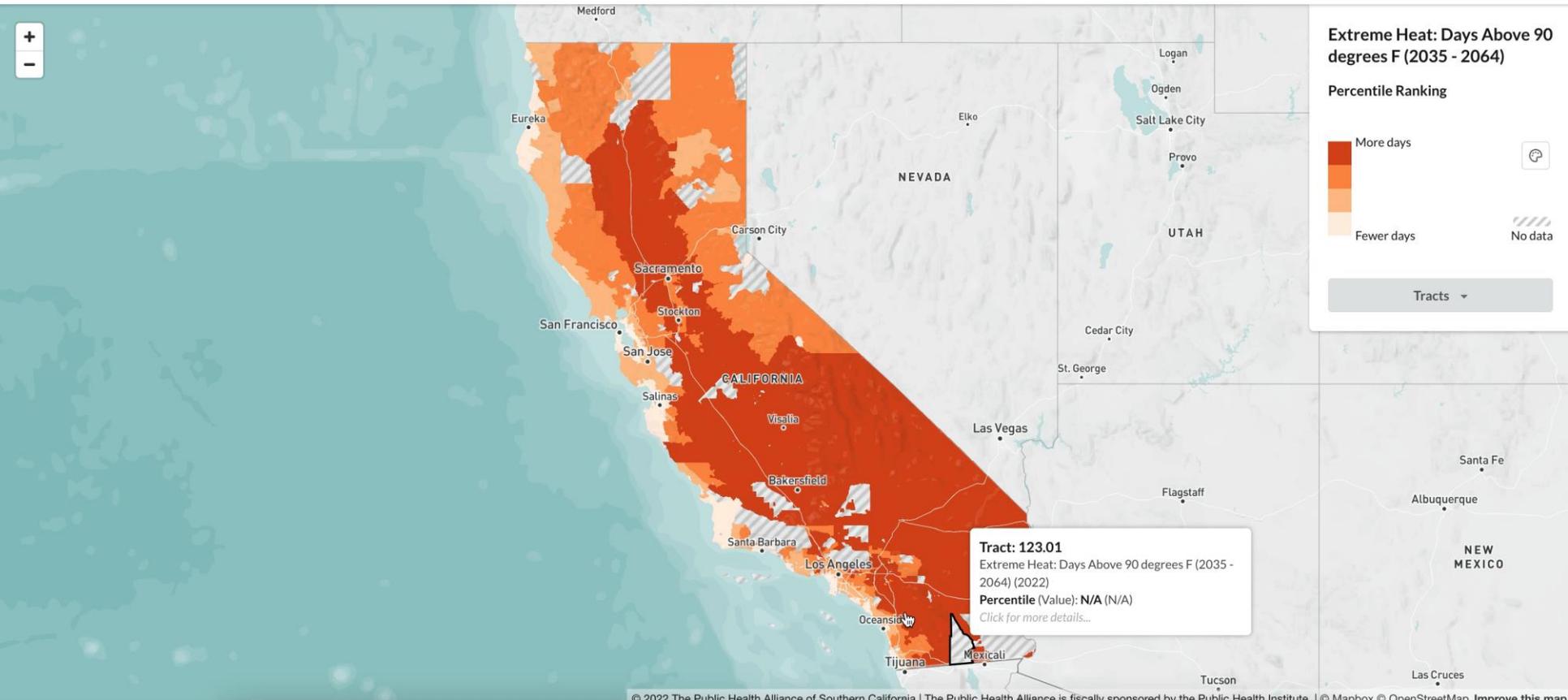
Explore a neighborhood's resilience or vulnerability to extreme heat in the **Climate + Community Conditions** function

Example

What community conditions influence my neighborhood's resilience to extreme heat? Where are the heat-sensitive populations in my city?

Tools

Enter a location...



Extreme Heat: Days Above 90 degrees F (2035 - 2064)

Percentile Ranking

- More days
- Fewer days
- No data

Tracts ▾

Tract: 123.01
 Extreme Heat: Days Above 90 degrees F (2035 - 2064) (2022)
 Percentile (Value): N/A (N/A)
[Click for more details...](#)

HOW CAN I USE THE HPI: EXTREME HEAT EDITION MAP FEATURES? *(cont.)*

Explore resources to address extreme heat

This feature allows people to identify programs and funding opportunities to address extreme heat.

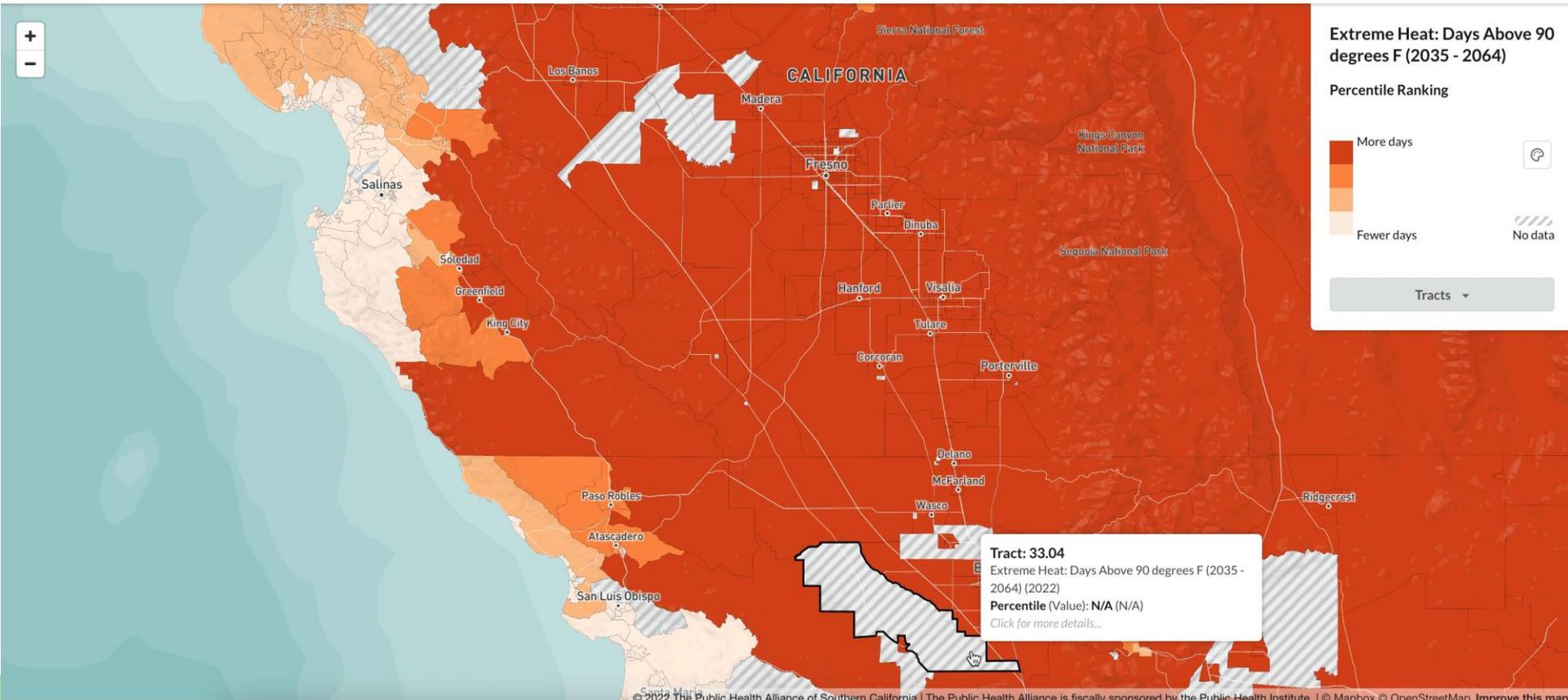
Example

Find funding opportunities for low-income home weatherization improvements.



Tools

Enter a location...



Extreme Heat: Days Above 90 degrees F (2035 - 2064)

Percentile Ranking

- More days
- Fewer days
- No data

Tracts ▾

Tract: 33.04
 Extreme Heat: Days Above 90 degrees F (2035 - 2064) (2022)
 Percentile (Value): N/A (N/A)
 Click for more details...

© 2022 The Public Health Alliance of Southern California | The Public Health Alliance is fiscally sponsored by the Public Health Institute. | © Mapbox © OpenStreetMap. Improve this map

HOW CAN I USE THE HPI: EXTREME HEAT EDITION MAP FEATURES? *(cont.)*

Filter indicators

Quickly find places that meet the specific criteria you set - like income level, tree canopy coverage, projected extreme heat impacts, and more

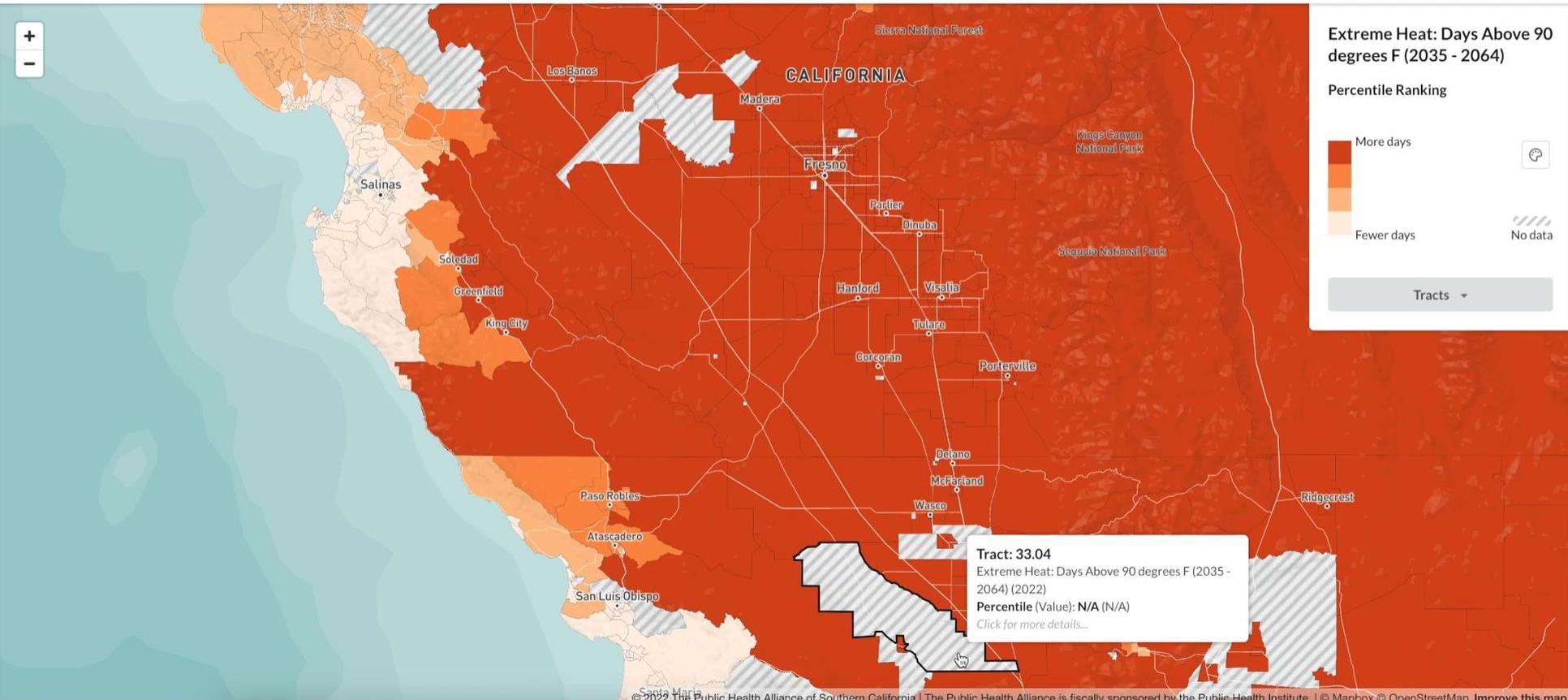
Example

Find communities in California projected to receive over 100 days of 100°F+ weather.



Tools

Enter a location...



© 2022 The Public Health Alliance of Southern California | The Public Health Alliance is fiscally sponsored by the Public Health Institute. | © Mapbox © OpenStreetMap. Improve this map

HOW CAN I USE THE HPI: EXTREME HEAT EDITION MAP FEATURES? *(cont.)*

Visualize multiple vulnerability indicators

Find the places where overlapping factors - community conditions, sensitive populations, adaptive capacity - increase vulnerability to extreme heat.

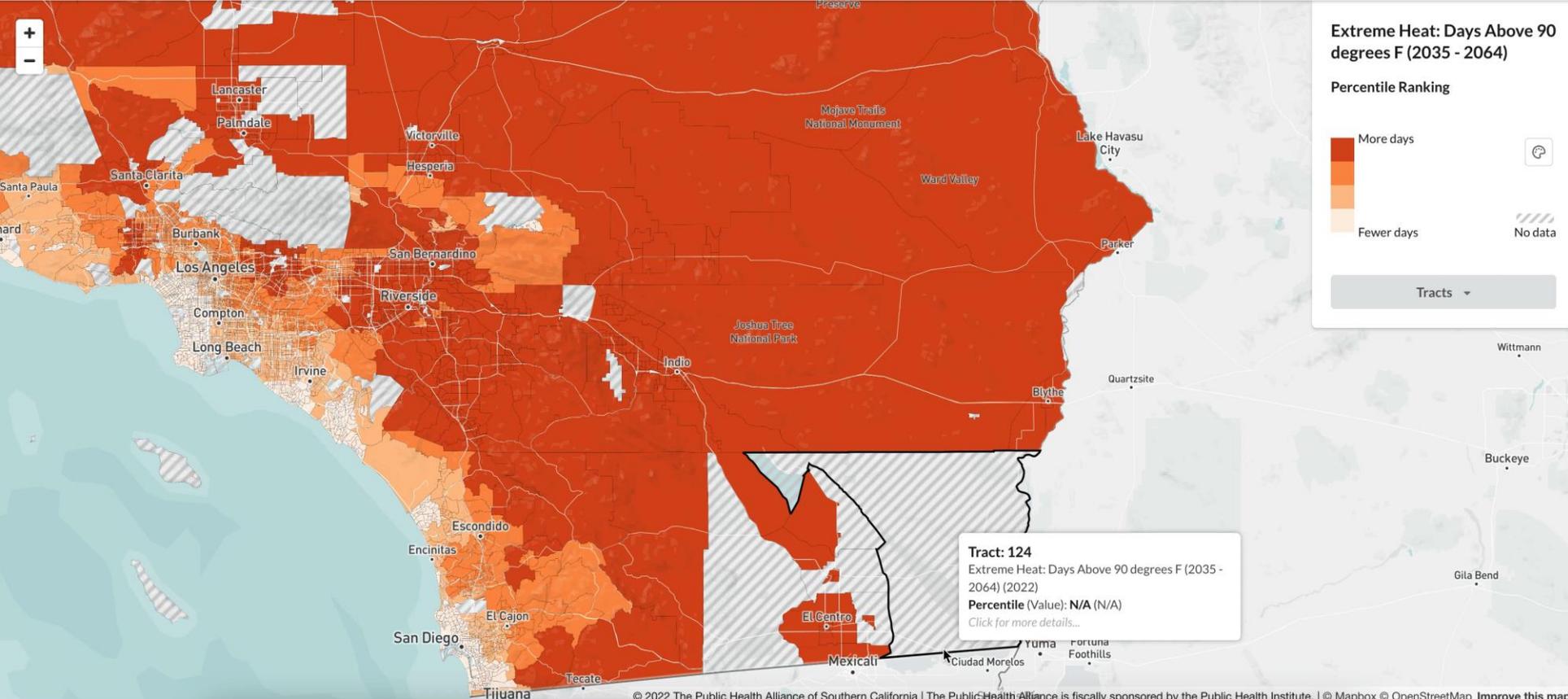
Example

Riverside county has received funding to develop a neighborhood park, and wants to find candidate sites that will benefit most from the heat-mitigation effects.



Tools

Enter a location...



© 2022 The Public Health Alliance of Southern California | The Public Health Alliance is fiscally sponsored by the Public Health Institute. | © Mapbox © OpenStreetMap. Improve this map

Q&A

RESOURCES

HPI: Extreme Heat Edition MAP: heat.healthypacesindex.org

UCLA HPI: Extreme Heat Edition SITE: innovation.luskin.ucla.edu/climate/heat/

ACCESS OUR DATA: api.healthypacesindex.org

For additional questions, please contact:
AskHPI@ThePublicHealthAlliance.org

Tell us how we did!

Take a quick 2-minute survey to help us improve future Toolbox Tuesdays!



SCAN ME