# CalHeatScore

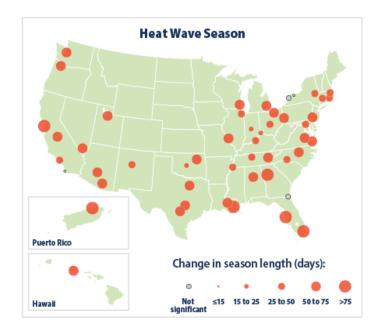
California Environmental Protection Agency
Office of Environmental Health Hazard Assessment





#### **Extreme Heat**

- Deadliest climate hazard, vulnerable groups impacted most
- Heat wave seasons in the US have lengthened in recent decades (bottom right)
- Longer, more intense heat seasons to come





# **An Early Warning System for Heat**





### **How CalHeatScore Works**



**Localized Alerts:** Tailors heat warnings to each community's specific climate and vulnerability.



**Daily & Forecast Updates:** Provides daily heat scores and multi-day forecasts to support early action.



**Protective Rankings:** Reflects health risks using local ER data and regional climate conditions



**Targeted Outreach:** Provides general information on recognizing heat illness, who is generally at risk, and ways to keep yourself safe.



**Resource Connections:** Links users to cooling centers



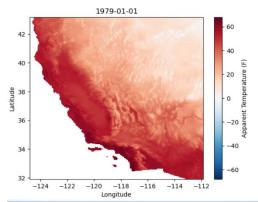
### **Climate and Weather Data**

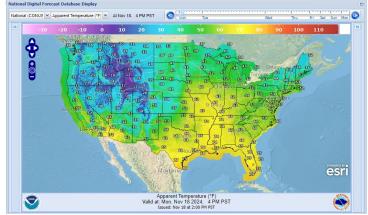
#### Historical climate data

- Zip code level heat conditions
- Connect temperature measurements to health responses

#### Daily weather forecasts

 Temperature forecasts for the upcoming week







## **Heat-Health Response Data**

- Measure risk of daily heat-related Emergency Department (ED) visits per zip code, 2016-2018
- Includes heat illness, heat stroke, dehydration, acute renal failure
- Source: Department of Healthcare Access and Information (HCAI)

#### **SIGNS OF HEAT ILLNESS**

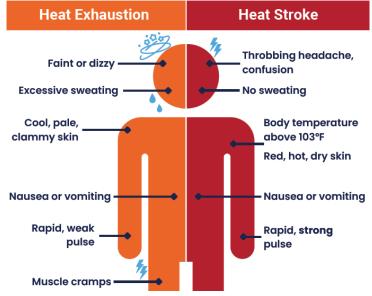
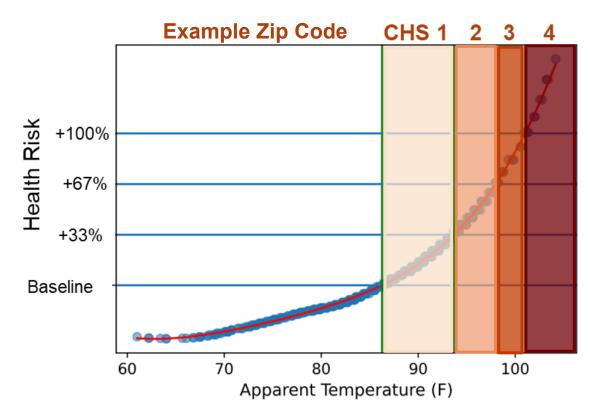


Image source: Signs of Heat Illness



# **Calculating Heat Rankings**

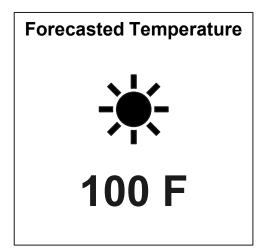




# **Example**

# **Example Zip Code**

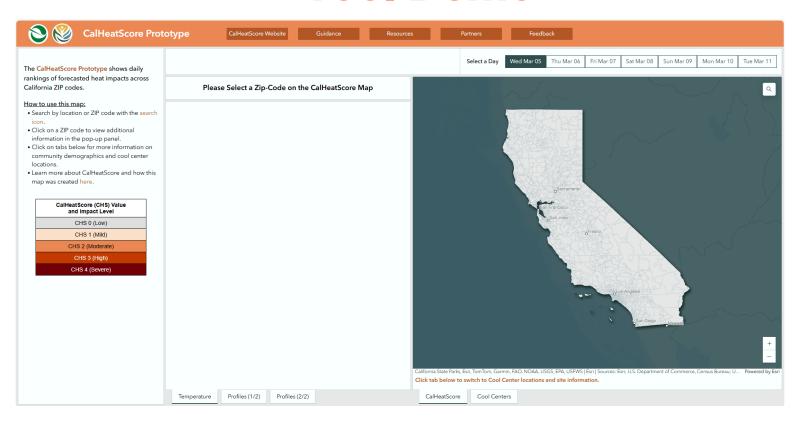
CHS	Temperature Range
0	Temp =< 87 F
1	87 – 93 F
2	93 – 98 F
3	98 – 101 F
4	101+ F



CHS<sub>3</sub>

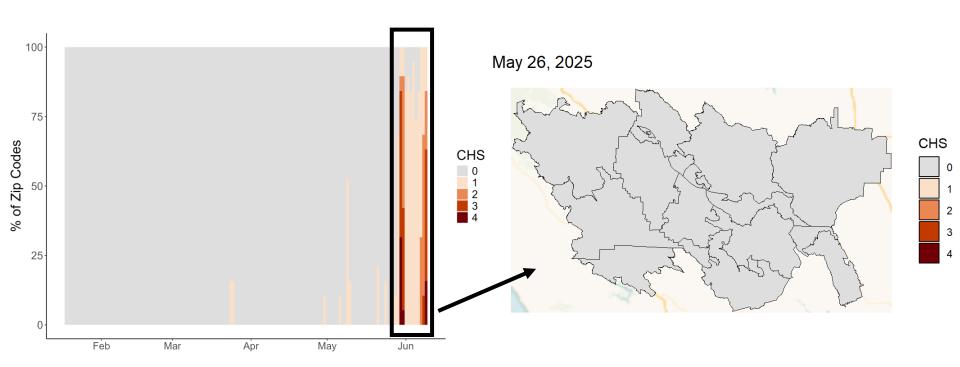


### **Tool Demo**



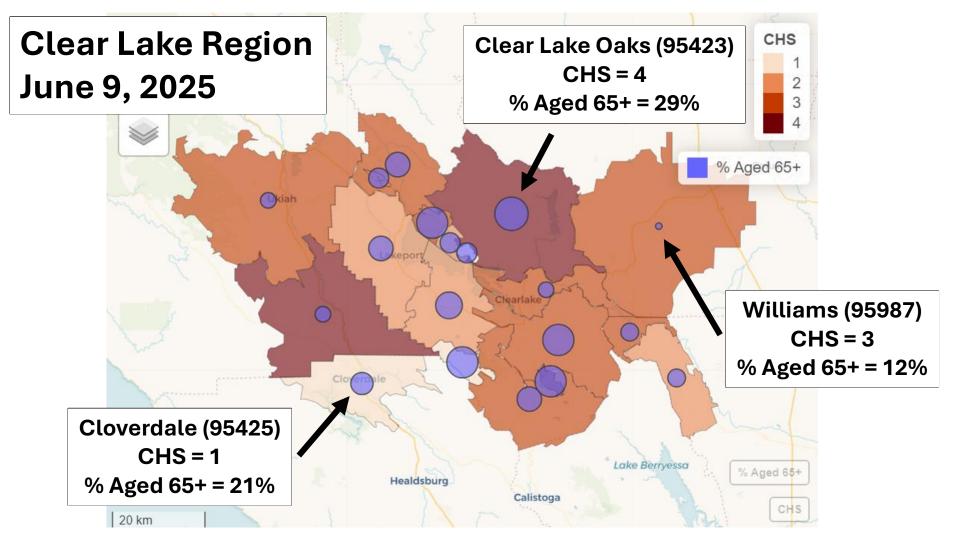


### **Clear Lake Region**



January - June 2025

**May 26 – June 9** 



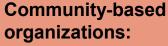
## **CalHeatScore Users and Applications**











Understand heat exposures and advocate for members



#### **General public:**

Make decisions about daily activities



#### **Employers:**

Make decisions about working conditions



## **Stakeholder Engagement**

- Public Workshops: small group discussion and validating through lived experience
- Local Government Outreach: Local relevance and mapping of local heat mitigation resources



### **Cohort Opportunity**

OEHHA is currently recruiting for CalHeatScore cohort members for the following institutional affiliations:

- Tribes and Indigenous People
- Outdoor and Warehouse Workers
- Elderly People

Please share recommendations with

CalHeatScore@oehha.ca.gov





## **Cohort Opportunity (cont.)**

- Goal: create a space for experts to share ideas on how CalHeatScore can be improved to represent on-theground experiences, and how the tool could be integrated into extreme heat and public health practices and better serve heat-vulnerable communities.
- Stipend offered for participation
- Cohorts run July Fall 2025





## **Next Steps**

OEHHA public engagement: ongoing through Summer

Research and Development:
Ongoing





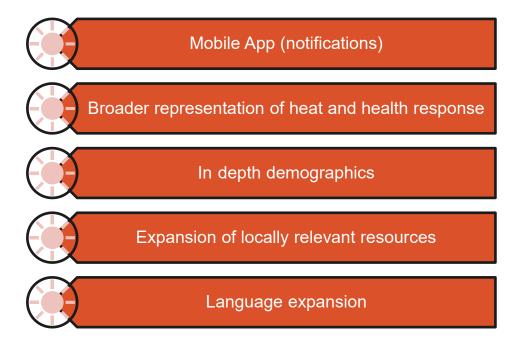




CalHeatScore User Cohorts: July -December Next Version of CalHeatScore



# **Future Directions (cont.)**





#### **How to Get Involved**

- Join listserv CalHeatScore.calepa.ca.gov
- Register for upcoming webinars
- Email us with comments: CalHeatScore@oehha.ca.gov
- Try out CalHeatScore for yourself!

