

County Health
Rankings & Roadmaps

1
Share
successes and
lessons learned
3
Build
knowledge
for multiple
perspectives



## Climate and weather



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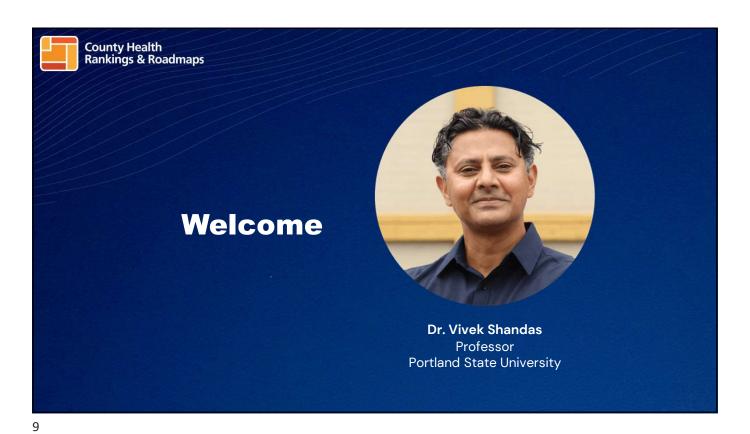


# Climate changes health



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County Health Rankings & Roadmaps

What we will cover

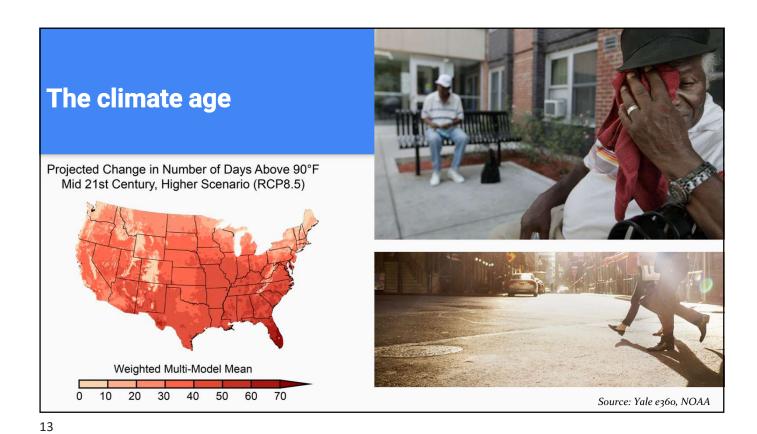
How does climate change impact our health?

What is the link between climate and health inequities?

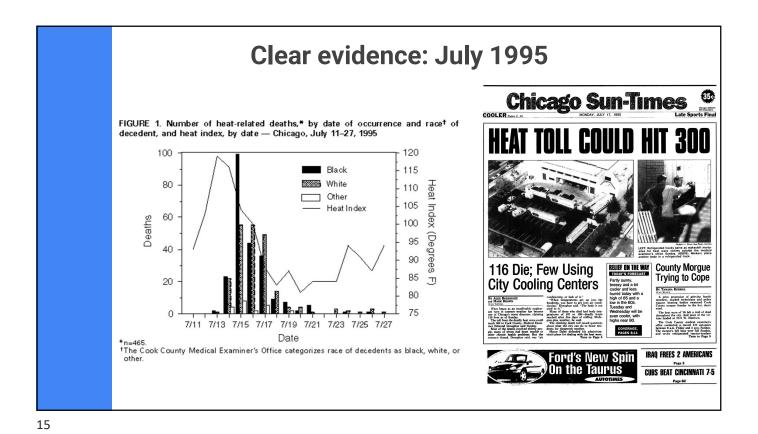
How can communities make a difference?







Cities are heating up Injuries, fatalities, mental health impacts cardiovascular disease Air Pollution Malaria, dengue, **Heat-related illness** and death, cardiovascular failure Changes in Vector Ecology WHAT MAKES A HEAT WAVE SO EXPENSIVE? Extreme Heat Climate Change & Human Health Increasing MEDICAL Allergens Respiratory mental Degradation allergies, asthma Water and Food Water **Supply Impacts Quality Impacts** Policymakers often lack evidence on urban heat cryptosporidiosis, and its impacts. diarrheal disease campylobacter, leptospirosis, harmful algal blooms Image source: CDC & ESMAP Cool



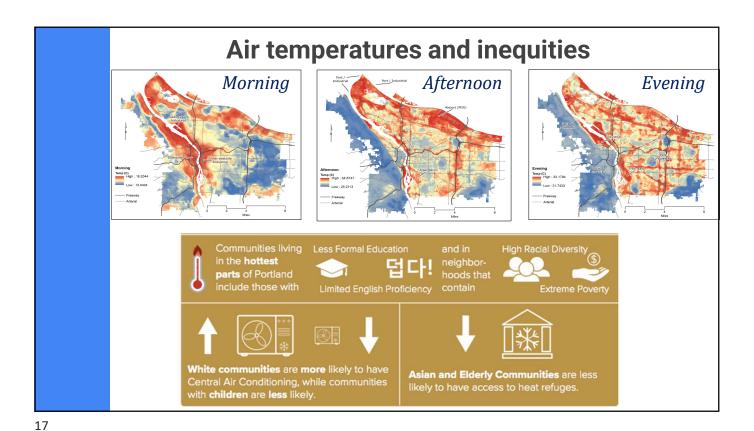
Pacific Northwest: 26 Years later
(June. 2021)

A Spike in Heat-Related Emergency Department Visits
In the Pacific Northwest

1,000
800

In 2019 In 2021 200

Source: Morbidity and Mortality Weekly Report, C.D.C. Data comes from the U.S. Department of Health and Human Services Region 10, which includes Oregon, Washington, Idaho and Alaska.



Federal policies and heat

Tree Canopy Impervious

HOLC Security Rating

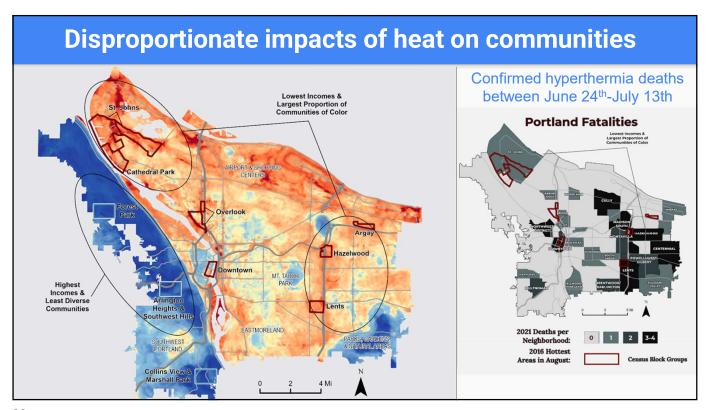
Source: Hoffman, Shandas, Pendelton, 2020

## Redlining and landscape conditions

- Redlined communities had less tress and more impervious surfaces.
- Grade A communities were the coolest communities.
- Grade D communities were the hottest communities.



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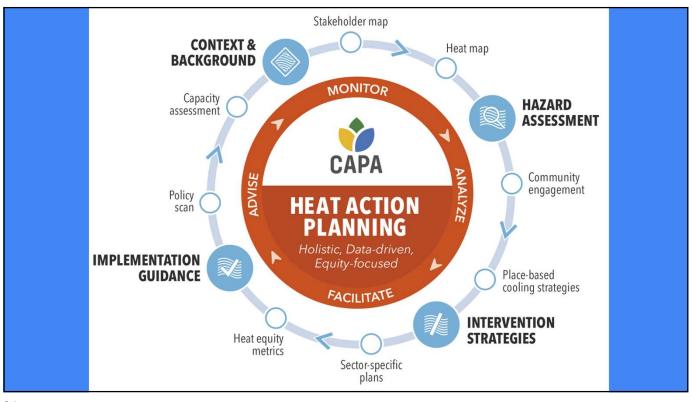


#### 2021 Oregon heatwave death toll Confirmed hyperthermia deaths between June 24th-July 13th **Residence Types of Victims Heat Fatality Records Across Oregon** Park Other\* **Multi-Family** Residence Mobile Home **Single Family** Residence 29% \*Other Includes: Single Family Residence Transient, Parking Lot, Hotel, & Unknown

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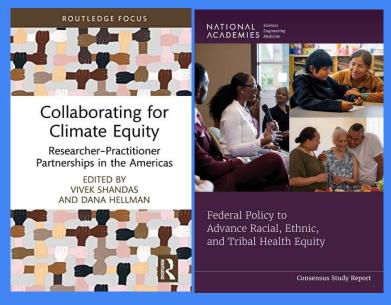
#### Table 1. Summary of policy recommendations to increase primary prevention of heat exposure **Excerpt from** Begin voluntary screening at health-care facilities to identify high-risk individuals. Provide A/C units to previously identified high-risk individuals without A/C access. A/C access. Window air conditioning units are relatively affordable and can be easily retrofitted onto older buildings. Distribution programs have been used in New York and Massachusetts. Technicians could confirm proper installation of window A/C units for high-risk individuals, as improper installation contributed to mortality during the 2021 heatwave in Portland, Additionally, technicians could travel regionally to areas of increased demand during a heatwave event, similar to the pooling of EMS resources during other natural disasters. Portland's response to Formally organize the existing workforce of trained A/C technicians so that they are prepared to respond during extreme heat events. the western north EMS resources during other natural disasters. Work-related unidoor activity contributes to mortality among younger individuals, despite lower baseline vulnerability. Limiting heat exposure acros the population could reduce the number of excess EMS calls and emergency department wish during heatways. Nighttime heat exposure is understood to be a key driver of mortality. Decentralized shelters are favored as extreme heat can disrupt public transportation infrastructure (which occurred in Portland). Factors such as limited mobility and poverty that increase risk during a heatwave often also make travel difficult. Limit employment involving outdoor work, or hot indoor work, to essential activities. Immediate American heatwave: A Continue to provide emergency shelters during extreme heat events; specifically, ensure overnight availability of shelters. Improve access to shelters by opening multiple shelters in vulnerable communities, as opposed to relying on large, centrally placed brief report Advocate for the inclusion of effective cooling as a legal obligation of landlords to provide tenets, especially in northern states which historically do not require this. After significant advocacy, the State of Oregon passed the "Right to Cooling Bill" following the 2021 extreme heat event, which prevents landlords from certificiting tenes' access to air conditioning, in Vanouver, a new by-law requires the ability to maintain 26°C or lower temperatures in everything built after 2025. Future policies could make effective cooling to be a mandatory provision from landlords to tenants, similar to the status of heating in many Short Term Link to the article with this table will be included in the webinar resource guide. Establish WIFI-enabled temperature monitors to track and provide real time alerts of dangerous temperatures in public housing, prisons, and other high-risk areas. Current project sponsored by the City of Portland's Bureau of Emergency Management and in partnership with Home Forward, CAPA Strategies LLC, and Multnomah County Public Health. Short Term Community engagement aids in disseminating information regarding the threat of extreme heat, building local capacity, and selecting appropriate methods for the context and specific vulnerable communities. Develop municipal level multi-pronged heat action plans focused on community engagement when selecting among other strategies mentioned in this Short Term New York City commissioned the "CoolRoofs" project, which has coated roofs throughout the city with a white paint. This increases solar reflectance of the roofs and reduces radiative energy absorption. The City of Fortland commissioned the "Planting a More Equitable Urban Forest" report, which aims to ficus on low-income low-tree canopy neighborhoods. A sustained power outage during a heatwave is a probable climate disaster in the United States. This could result in clinically significant extreme heat exposure to most of the population in many metropolitan areas of the United Improve the resilience of the electrical grid. exposure to most of the population in many metropointan areas of the units States. New buildings should use a combination of urban form, passive measures, and mechanical cooling to become heat resilient. Passive cooling measures which have been used in hot environments for many years should be draw upon to reduce the reliance on active cooling. Examples of these technolog include shutters, awnings, light colored building materials, and courtyards. Burlotos A, Dresser C, Shandas V. Portland's Response to Ensure resilience to hot summer climate is a focus when constructing new buildings in an urban setting the Western North American Heatwave: A Brief Report. Disaster Medicine and Public Health Preparedness. Increase climate change mitigation. Long Term Climate change mitigation, for example through reducing greenhouse gas emissions, can address the root cause of increasing extreme heat exposur 2023;17:e522.





### The [A,B,C,Ds of] the work ahead

- Acknowledge that we're addressing decades of injustice in landscape planning
- Build deeper understanding about the pathways that climate-induced events impact communities
- Center those facing the 'first and worst' outcomes
- Decision guidance uses systematic assessments and holistic perspectives



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### What Works for Health

Strategies to help communities reduce greenhouse gas emissions and mitigate the effects of climate change, including reducing individuals' carbon footprints

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Upcoming webinar:

January 16, 2024

Investigating new approaches to racial healing

Kevin Leacock, MPH

Program manager
Build Health Places Network



