

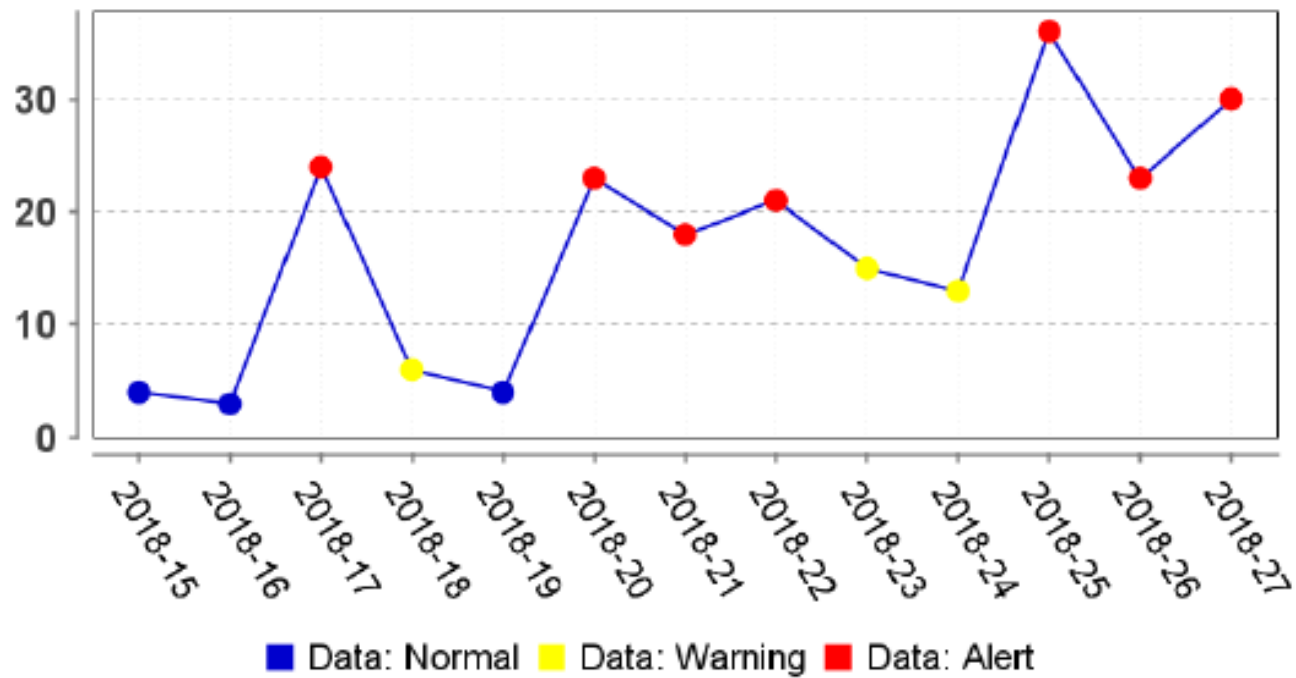
A photograph of a flooded street. The water is deep and reflects the sky and surrounding buildings. In the background, there are utility poles, a sign for 'EURN', and a sign for 'HIGH WATER'. A person is visible in the distance, possibly wading or driving through the water. The overall scene suggests a significant weather event or flooding.

# Planning for Climate Change: New Tools and Success Stories

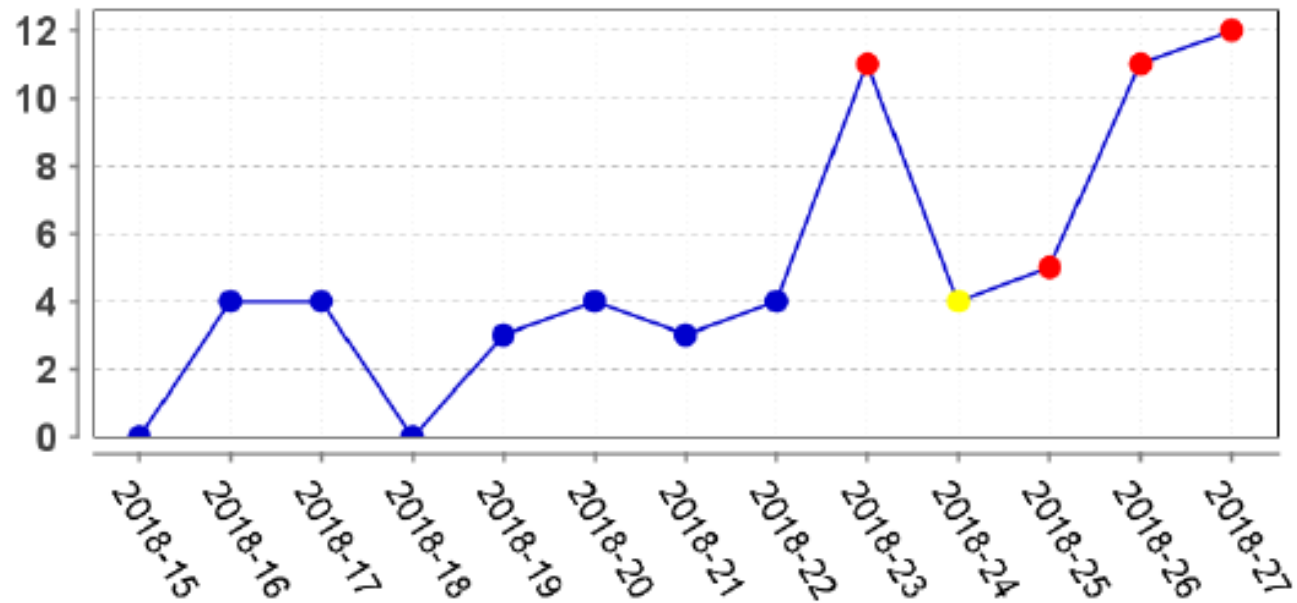
Emily York  
Oregon Climate and Health Program  
Oregon Public Health Division

Mac Gillespie  
Benton County Health Dept.

## HEAT-RELATED ILLNESS (HRI) QUERY

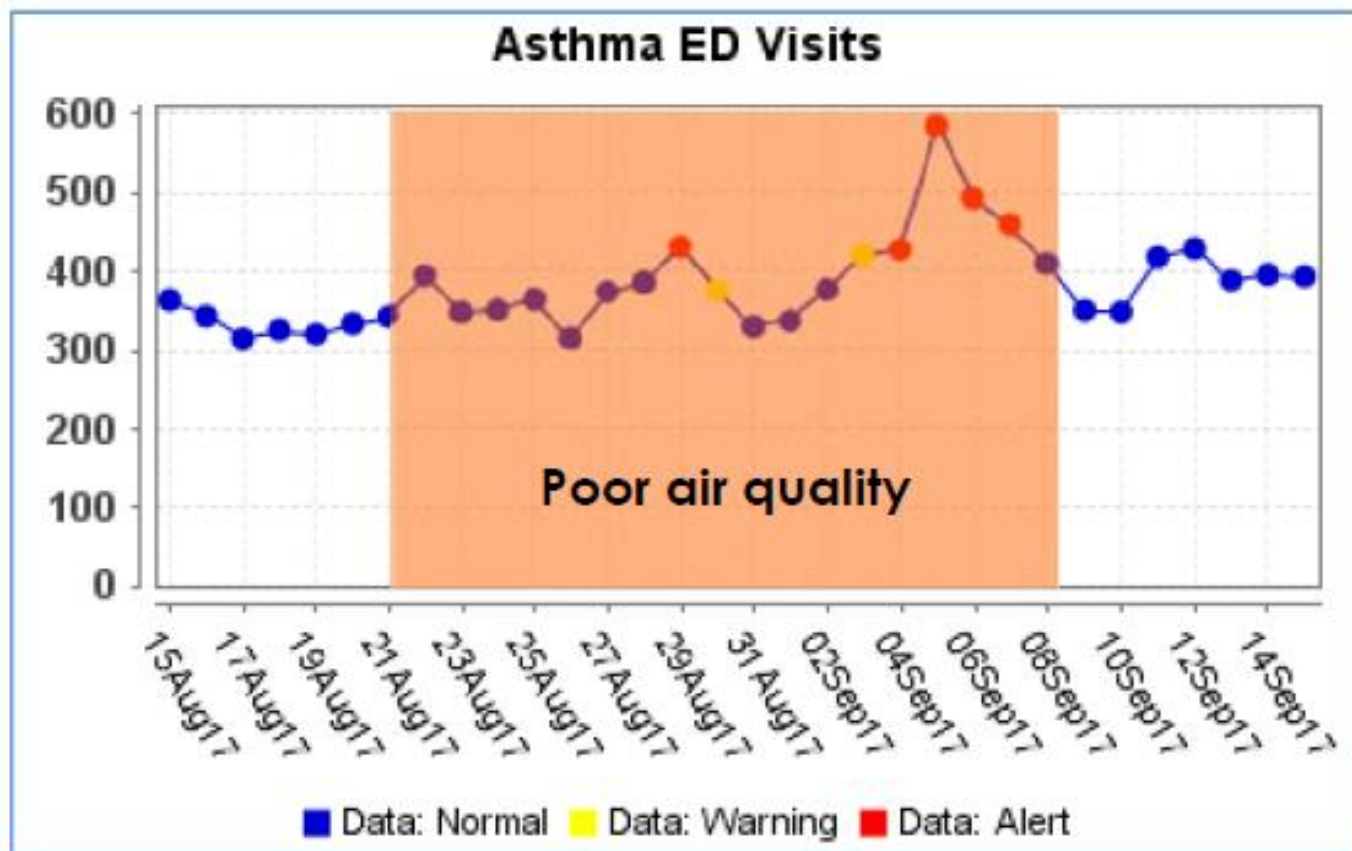


## HARMFUL ALGAL BLOOMS (HABS)

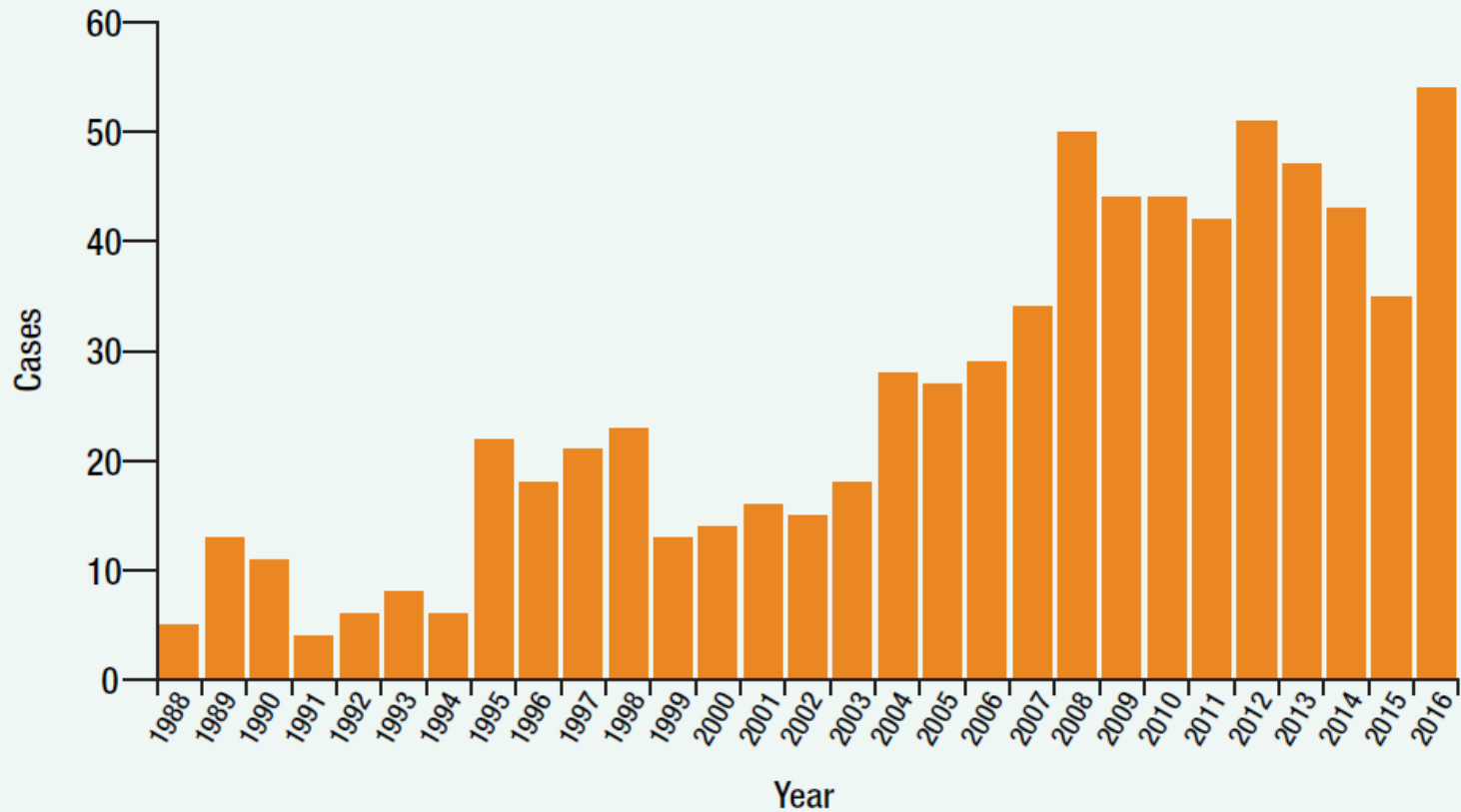




## Visit Trends



## Lyme disease by year: Oregon, 1988–2016





OREGON

Climate and  
HEALTH

Resilience Plan

# Oregon Climate and Health Collaborative

## State Health Department

- Oregon Health Authority

+

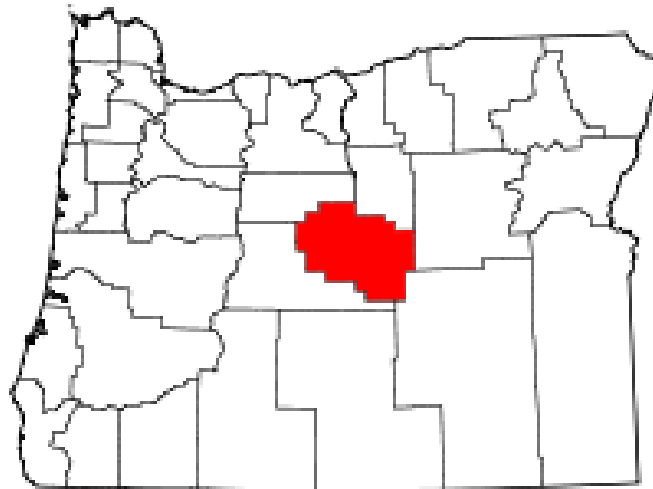
## Local Health Departments

- Benton County Health Dept.
- Crook County Health Dept.
- Jackson County Health Dept.
- Multnomah County Health Dept.
- North Central Health District





# Crook County Health Department





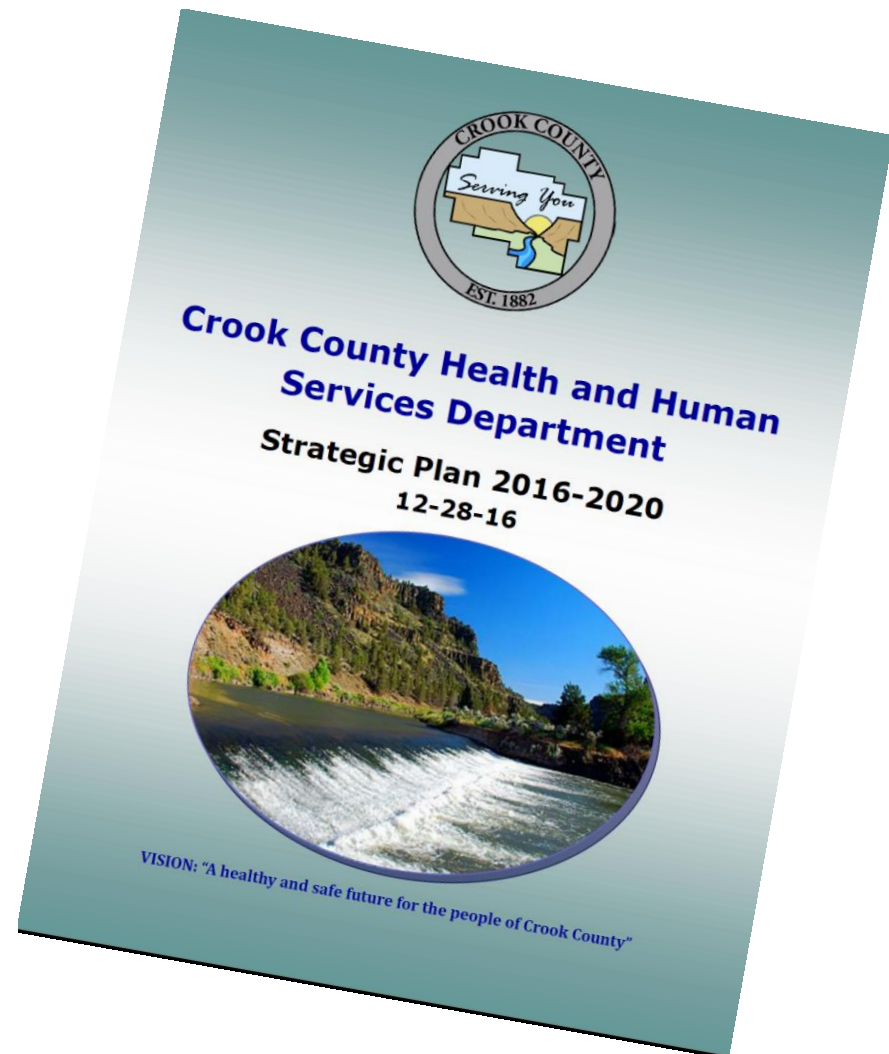
# CCHD Strategic Plan 2016-2020

## Goal 1 Strategy J:

“Develop and implement a system to monitor climate influence on health.”  
Active in the continued work with other LPHA’s and the State of Oregon in the Health Equity work.

## Measures and Deliverables:

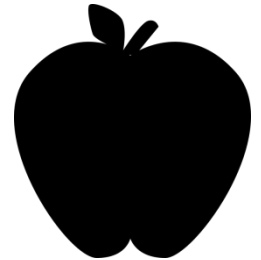
- System in place to monitor air quality and asthma correlations – direct partnership with local Air Quality teams to monitor air quality year round.
- Implement programs advocating for improved residential water use. Ongoing testing of ground water being used by the community.



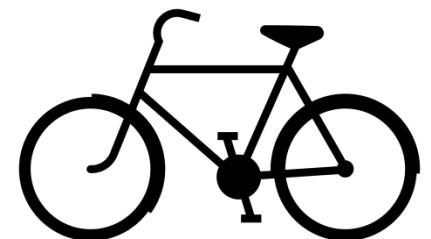
# CCHD Healthy Meeting Policy

CCHD will make choices that are respectful of the environment by:

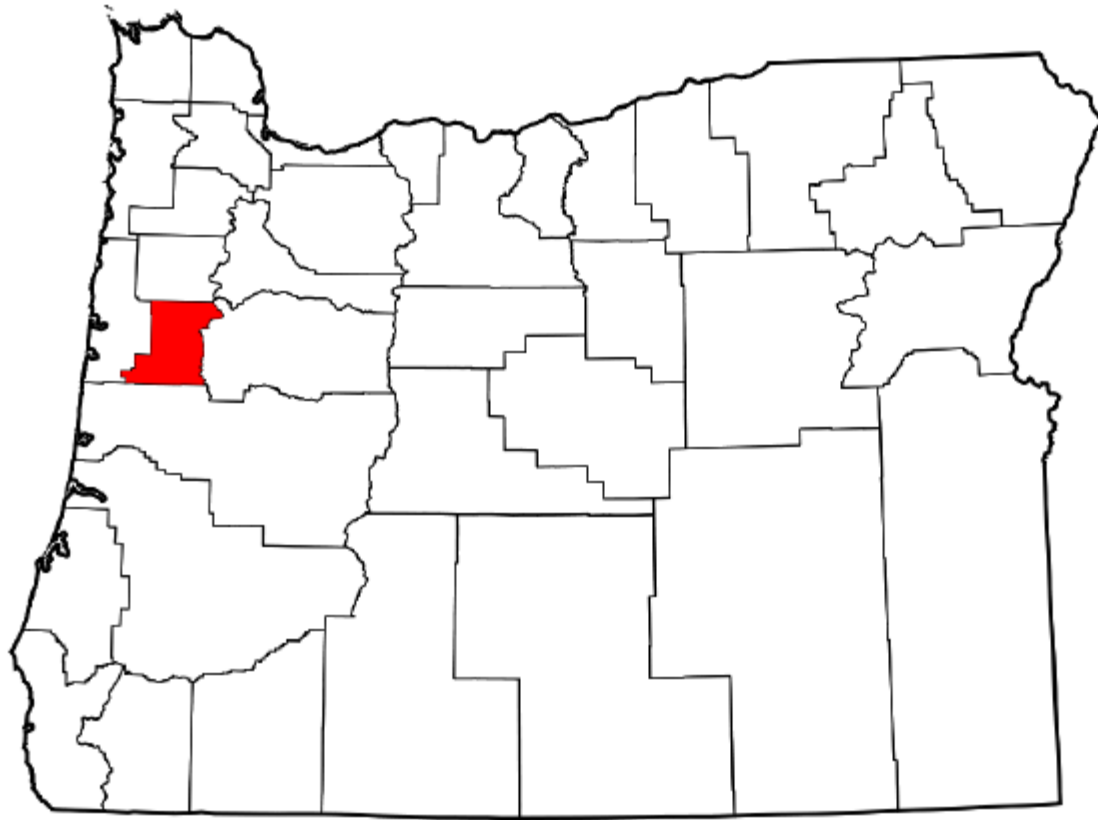
- Purchasing locally-grown foods when possible and working with local food alliance partners to offer fresh seasonal local grown foods to WIC clients.
- Reducing waste by recycling, choosing foods and beverages with minimal packaging.
- Opting for reusable tableware when possible.



CCHD will encourage employees and partners to walk or bike to meetings when possible and continue to partner with local schools to promote the walking school bus project.



# Benton County Health Dept.



Mac Gillespie

# Current projects

**Mitigation-** To reduce the flow of greenhouse gases into the air either by reducing carbon-based sources and/or increasing carbon sinks

- Utility tracking spreadsheet

**Adaptation-** Structural, physical, and behavioral alterations necessary to prepare for a changing climate

- Reviewed policies





# Benton County Climate Action Framework

What is the Event/Topic?	<b>Freezing Temperatures</b>
What is the Threat &/or Risk?	Unhealthy conditions for humans & domestic animals to be outside; especially homeless, low-income, or elderly residents
What is the Condition or Event that Triggers Action?	Temperature forecasted to be below 35-degrees for two or more days
What is/are the Response Action/s?	Secure heated shelters for people & domestic animals; ensuring adequate food, water, and facility resources. See checklist at the beginning of the EOP.
What are Some Pre-Event Mitigation Actions:	Maintenance of Emergency Operations Plan to include testing, training, and exercising
What is the Potential or Real <b>Budget</b> Impact? (High, Medium, Low, N/A) Explain	Cost of emergency staff; Cost of heated shelters (if applicable)
What is the Potential or Real <b>Economic</b> Impact? (High, Medium, Low, N/A) Explain	Low/Minimal
What is the Potential or Real <b>Social</b> Impact? (High, Medium, Low, N/A) Explain	Potential displacement of family members, some who could have medical issues
What is the Potential or Real <b>Environmental</b> Impact? (High, Medium, Low, N/A) Explain	Road maintenance "Climate models suggest that as the region warms, winter snow precipitation will likely shift to higher elevations and snowpack will be diminished as more precipitation falls as rain altering surface flows." See NHMP
What is the Potential or Real <b>Human Health</b> Impact? (High, Medium, Low, N/A) Explain	Minimized health impacts from reduced hypothermia; Potential of communicable diseases due to close human proximity in shelters
What is the Policy, Plan, or Action?	2016 Benton County Emergency Operations Plan 2016 Natural Hazard Mitigation Plan

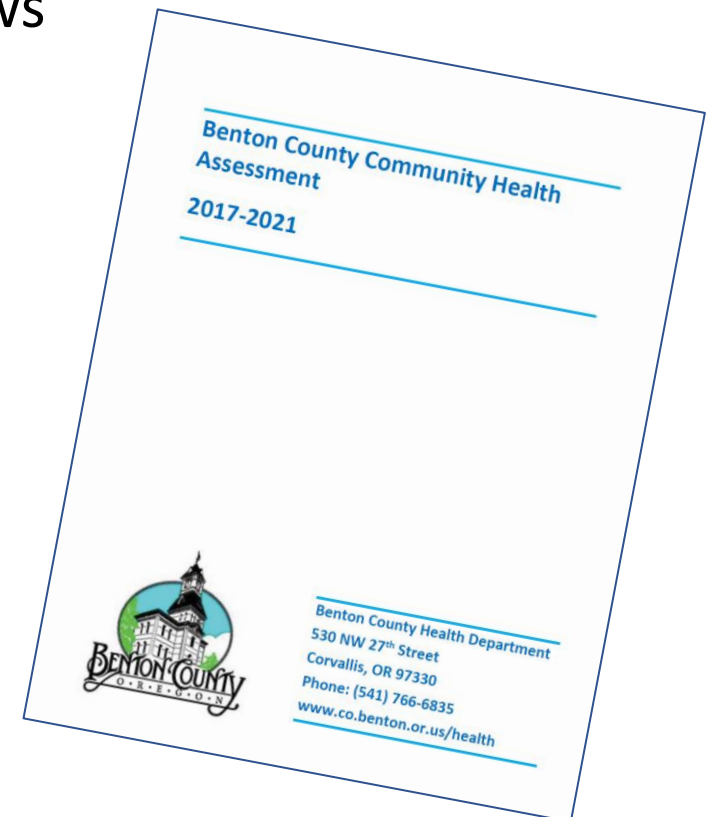
# What are we currently doing?

- Step 1: Sign on to We Are Still In
- Step 2: Finalize resource tracking protocol
- Step 3: Carbon Emissions Inventory spreadsheet
- Step 4: Identify aggressive & achievable climate action goal
- Step 5: Determine department and staff actions – Ongoing!



# Benton County Community Health Assessment 2017-2021

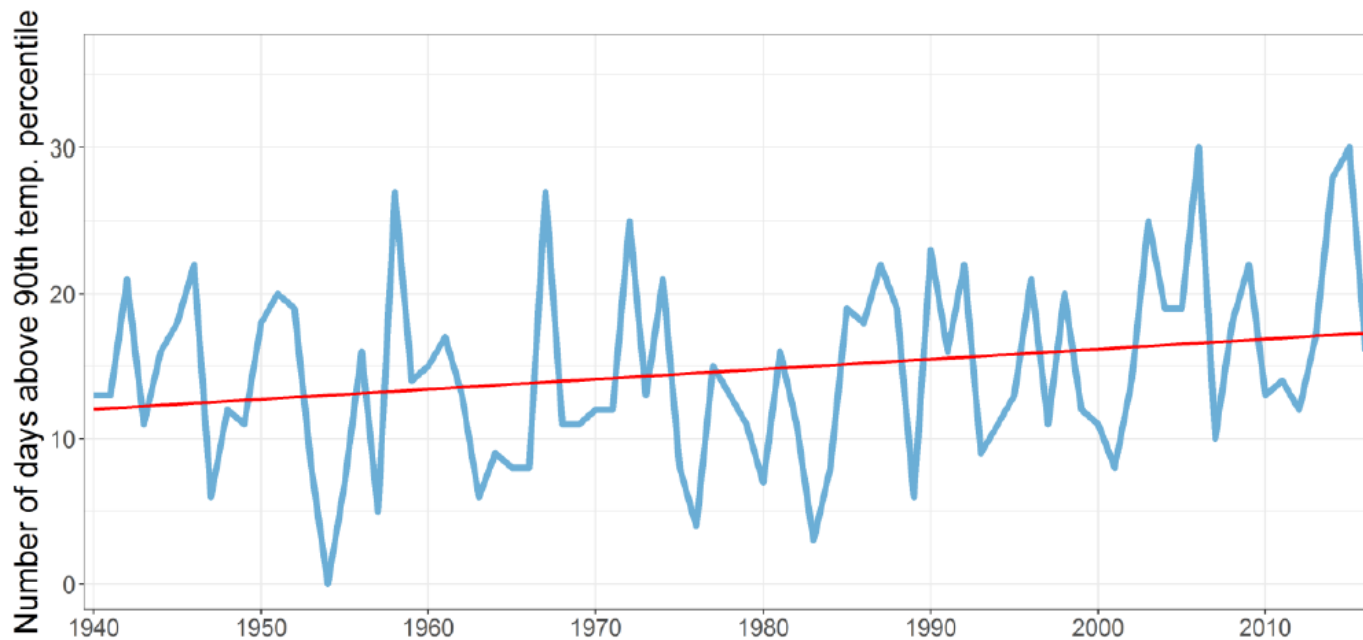
- Environmental Health Section includes:
  - Annual Weather Patterns
  - Annual Snowpack and Water Flows
  - Water Quality
  - Air Quality
  - Natural Hazards
  - And...



# ... Climate Change

“Many of the environmental indicators already discussed have been linked with climate change, both theoretically and through modeling.”

Figure 3.1: Days with extreme heat, May – September, for the period of 1940 – 2016. Hyslop Field Station (between Corvallis and North Albany)





## STRATEGY 7

# Increase the number of policies and plans that include health and climate considerations


## STATE

- A** Incorporate climate considerations into agency-wide planning (Statewide Health Improvement Plan and the Public Health Division's Strategic Plan).
- B** Provide guidance to local health jurisdictions on how to incorporate climate considerations into assessment and planning.
- C** Conduct analyses of health impacts to assess and communicate the health burdens and benefits of proposed policies, including disparate impacts.



## LOCAL

- A** Integrate climate considerations into community health assessments, community health improvement plans (CHIPs) and other community and environmental health assessments.
- B** Provide climate and health perspective in local planning projects being led by other non-public health agencies in the city or county.



# CHIP Guidance Tool for incorporating Climate strategies

- Interviews
- Explored potential frameworks / formats
- Literature review
- Collection of strategies



# Guidance Document Framework

CHIP Priority Area	Climate-Related Strategies	Public Health Modernization Area	Suggested Metric	Example/Resources
Mental Health				
Chronic Disease				
Food Security				
Transportation				
Maternal and Child Health				
Communicable Disease				
Environmental Hazards				
Housing & Land Use				
Community Partnerships				





[www.healthoregon.org/climate](http://www.healthoregon.org/climate)