

# Public Health Emergency Preparedness & Response (PHEPR) Program Update



**Jessica Guidry, MPH, CHES**Assistant Director, PH Infrastructure
PHEPR Supervisor

**Quynh Sample, MPH**Resources Specialist
PHEPR

## **Our PHEPR Team**





## What is KPHD's Role in an Emergency?



### **Our Mission**

Prevent disease and protect and promote the health of all people in Kitsap County.

## Our Mission in an Emergency

Prevent disease and protect and promote the health of all people in Kitsap County.

The difference? Our priorities depending on how the disaster affects our health.

## **Key Response Activities**





Internal Coordination



Disease Containment



**Interagency Coordination** 



Injury Prevention



Information Sharing



Staff Safety





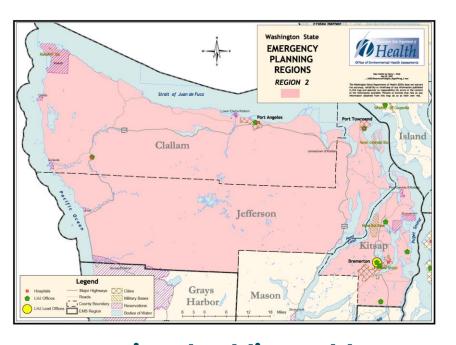
Continuity of Operations

## **Other Support Activities**





Health and Medical Services
Coordination (ESF-8) for
County Emergency
Operations Center



Regional Public Health Planning, Training, & Exercise Support

## KPHD Emergency Prep/Response Activations



- 2009 H1N1 Response (2009-2010)
- Ebola Prep (2014)
- Horseshoe Lake GI Illness Response (2018)
- Longterm Care Facility GI Illness Response (2019)
- Measles Prep (2019)
- COVID-19 (2020-2023)
- MPOX (2022)
- Tuberculosis (2022)

## **How PHEPR Helps KPHD Prepare**



- Plans, procedures, and systems
- Training and exercises
- Partnerships with local, tribal, regional, and state organizations
- Communications systems
- Medical countermeasures and other emergency supplies
- Staying informed about best practices
- Employee preparedness activities



**WA Department of Health Warehouse** 

## Our PHEPR Team (Part 2)





**Nathan Anderson** *Planning Specialist* 

- Response plans & procedures
- Floor monitor program
- Duty officer
- Climate change (acute response)



Amy Anderson
Training & Exercise Specialist

- Emergency response training
- Emergency response exercises
- Alternate communications (ham radio)



**Quynh Sample** *Resources Specialist* 

- Medical Reserve Corps
- Medical countermeasures and medical materiel
- Outreach
- Employee preparedness

### Recent and Current Initiatives



- Plans "Refresh" KPHD and County
- Exercises "Stinky Tornado", Network Outage, JCPH
- Outreach Kids Events, Heat & Wildfire
- Employee Preparedness
- Alternate Communications (Winlink, Ham, Zoleo)
- 2026 FIFA World Cup Planning





## Some of our partners include...

















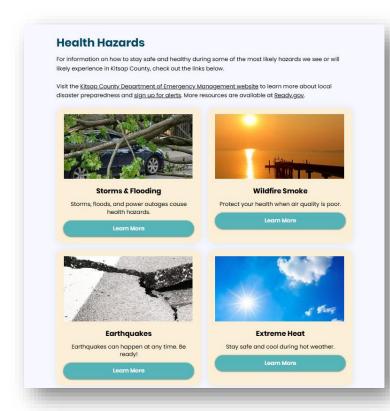




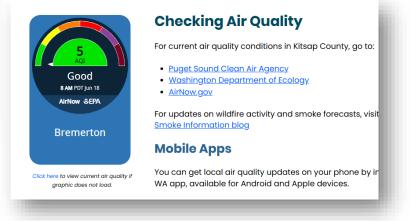
A member of CommonSpirit

## PHEPR Webpage









kitsappublichealth.org/phepr



# THANK YOU!

prepare@kitsappublichealth.org



kitsappublichealth.org



# PUBLIC HEALTH HEAT & WILDFIRE SMOKE PREPAREDNESS



Nathan Anderson, MPA
Planning Specialist
Public Health Emergency
Response & Preparedness

# Health and medical impacts of Extreme Heat

Prolonged exposure to heat impedes our ability to regulate internal temperature

### **Heat-related illnesses**

Heat cramps, heat exhaustion, heatstroke, hyperthermia

### **Chronic conditions**

Cardiovascular, respiratory, cerebrovascular diseases and diabetes-related conditions

## Occupational injuries

Drownings, food and waterborne disease, marine algal blooms

## Mental health and psychological stress

Stress, irritability, interaction with psychiatric medications

# Health and medical impacts of Wildfire Smoke

Exposure to smoke can cause or worsen health problems

Eye, nose, and throat irritation

Fatigue, headaches, and coughing

Wheezing and shortness of breath

Mental health and psychological stress

# Health and medical impacts of Heat and Smoke

Exposure to smoke and heat can make anyone sick, but some people have a higher risk of getting sick













People with health conditions, such as heart or breathing problems

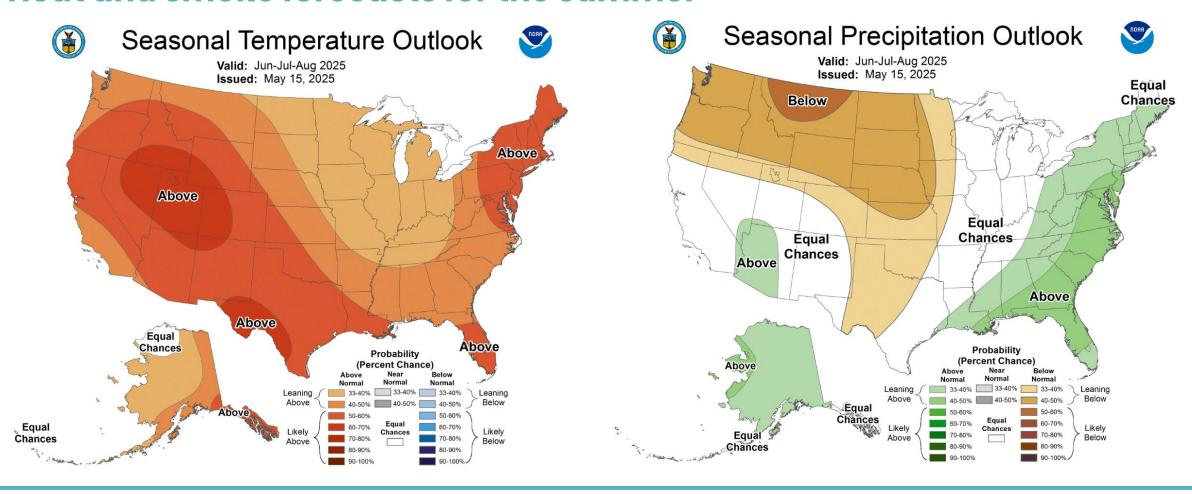




# Climate Outlook



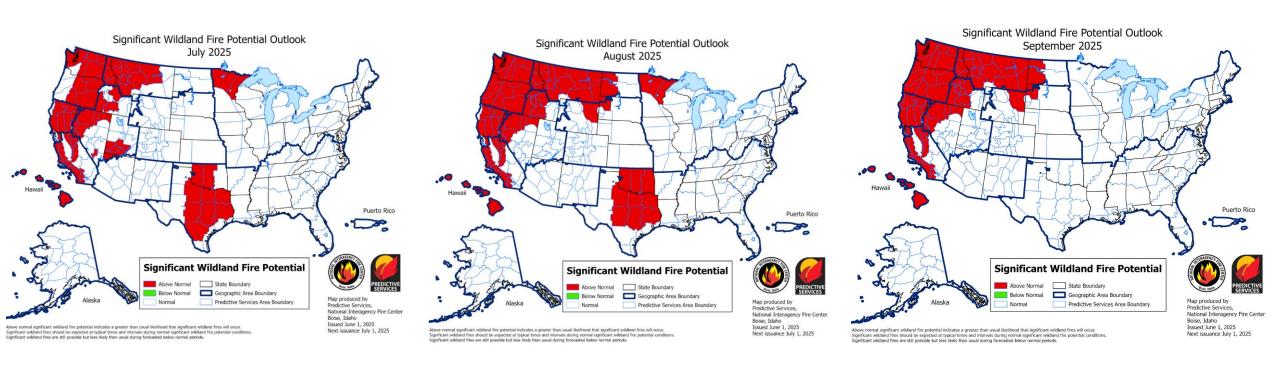
#### Heat and smoke forecasts for the summer



# Climate Outlook



#### Heat and smoke forecasts for the summer





# Maintain awareness of evidence-based and best practices for public health interventions

Welcome to HEAT.gov

Heat related illnesses and death are largely preventable with proper planning, education, and action. Heat,gov serves as the premier source of heat and health information for the nation to reduce the health, economic, and infrastructural impacts of extreme heat.

Heat.gov is the web portal for the National Integrated Heat Health Information System (NIHHIS)

Community-based heat adaptation interventions for improving heat literacy, behaviours, and health outcomes: a systematic review

Hamimatunnisa Johar, Fatima Ibrahim Abdulsalam, Yuming Guo, Till Baernighausen, Nowrozy Kamar Jahan, Jessica Watterson, Karin Leder, Darwin Gouwanda, G R Letchuman Ramanathan, Kenneth Kwing Chin Lee, Norlen Mohamed, Thahirahtul Asma' Zakaria, Sandra Barteit, Tin Tin Su

# **Excessive Heat Events Guidebook**



EPA 430-B-16-001 | June 2006 Updated Appendix A | March 2016

United States Environmental Protection Agency Office of Atmospheric Programs (6207J) 1200 Pennsylvania Avenue NW, Washington, DC 20460 Examining the effectiveness of public health interventions to address wildfire smoke, combined heat-smoke events and pollutants

28 July 2023

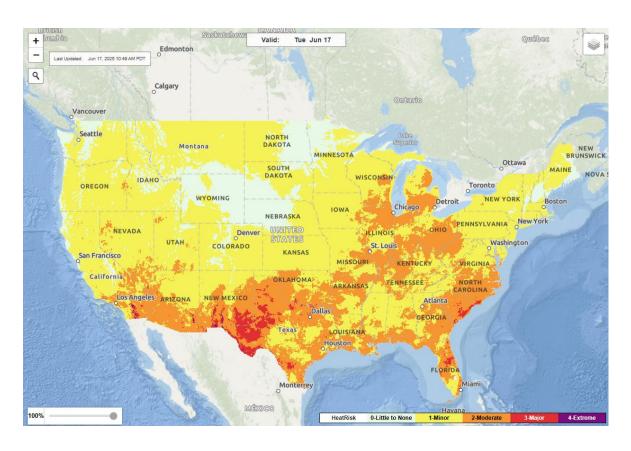
# WILDFIRE SMOKE: A GUIDE FOR PUBLIC HEALTH OFFICIALS

#### Washington Smoke Blog

Welcome to the Washington Smoke blog, a partnership between state, county, and federal agencies, and Tribes. We coordinate to collectively share information for Washington communities affected by wildfire smoke.



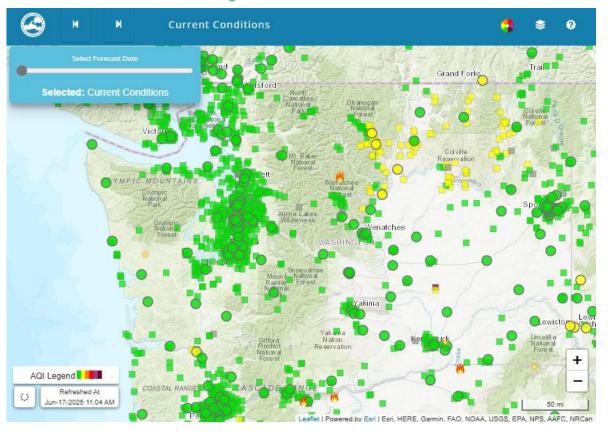
## Monitoring conditions and sharing recommended public health actions



NWS HeatRisk Values	Public Health Recommendations
2 Moderate	<ul> <li>INITIATE EARLY WARNING, PUBLIC MESSAGING, AND RESPONSE ACTIVITIES</li> <li>Recommend sharing information about publicly available cooling locations where general population can go to access air conditioning or cooling features such as water recreation facilities or other public places</li> <li>Recommend sharing key public health heat safety messaging and risk communications to at-risk populations, including those experiencing homelessness, older adults, children, and outdoor workers</li> <li>Consider reductions in strenuous outdoor activities during the hottest part of the day</li> <li>Consider cancelation and/or rescheduling of outdoor children's activities, day-camps, athletic practice, and games or moving them indoors during the hottest part of the day</li> <li>Promote people going to public spaces that are air conditioned</li> <li>Monitor NWS HeatRisk forecast and alerts until forecast conditions become more favorable (e.g., HeatRisk Value of 1 - yellow - or lower).</li> </ul>
3 High	ACTIVATION OF COOLING CENTERS & REDUCTION IN OUTDOOR ACTIVITIES  Recommend cancelation of outdoor activities and events during hottest times of the day  Recommend cancelation and/or rescheduling of outdoor children's activities, day-camps, athletic practice, and games  If school is in session, consider capabilities of schools to maintain cooler indoor air temperatures; Public Health will recommend closure if indoor temperatures cannot be maintained reasonably free of excessive heat (WAC § 246-366-080)
4 Very High to Extreme	RECOMMEND CANCELATION OF OUTDOOR EVENTS AND ACTIVITIES  • KCDEM – Consider expanding hours of operation for cooling centers and/or opening overnight cooling shelters  • KPHD - Emphasize cancelation and/or rescheduling of outdoor children's activities, day-camps, athletic practice, and games  • KPHD – Consider declaring a public health emergency after notification and discussion with the Health Board  • KCDEM – Consider making an emergency proclamation due to KPHD's emergency declaration



# Monitoring conditions and sharing recommended public health actions



#### **Washington Guide for Public Health Actions for Wildfire Smoke** This guide is designed for air quality, public health, and other officials making local decisions. **Air Quality Recommended Public Health Actions** Index: PM2.5 Check current and forecasted air quality at wasmoke.blogspot.com Above recommendations, plus: Recommend everyone take steps to reduce exposure (limit time outside, avoid strenuous outdoor activity, and follow tips for cleaner indoor air). Unhealthy Recommend everyone spend time in an identified cleaner air setting in the community. (151-200) such as a library, if they cannot maintain cleaner air in their residence. Consider canceling outdoor public events and activities: Wildfire Smoke Guidance for Canceling Outdoor Events or Activities and Closing Schools. For an extended duration of smoke, consider opening a cleaner air shelter for the public. Above recommendations, plus: Strongly recommend everyone take steps to reduce exposure (stay inside and filter indoor air to keep it cleaner; go elsewhere for cleaner air if needed and possible). • Cancel outdoor public events and activities: Wildfire Smoke Guidance for Canceling Outdoor Events or Activities and Closing Schools. Very If school is in session, discuss school closure with administrators if indoor air cannot Unhealthy be kept lower than PM, 5 125.5 µg/m³ (AQI value of 201): Wildfire Smoke Guidance for (201-300) Canceling Outdoor Events or Activities and Closing Schools. · Distribute NIOSH-approved particulate respirators, such as N95 masks, as available, for limited use outside. Include training material for proper fit and use. For an extended duration of smoke, consider recommending that sensitive groups voluntarily relocate to an unimpacted area. Above recommendations, plus: Hazardous For an extended duration of smoke, consider recommending that everyone voluntarily (>300) relocate to an unimpacted area.



✓ (All)

√ 2018

√ 2019

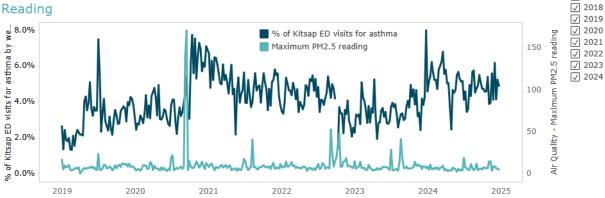
# Monitoring conditions and sharing recommended public health actions

## AIR QUALITY & ASTHMA VISITS TO KITSAP EMERGENCY DEPARTMENTS

Updated January 10, 2025

**Definition:** The dark blue line is the percentage of Kitsap County emergency department (ED) visits for the week that were for asthma-related symptoms, as identified through the CDC ESSENCE Chief Complaint Discharge Diagnosis (CCDD) query category, CDC Asthma CCDD v1, among chief complaints and discharge diagnoses. The lighter blue line is the maximum PM2.5 reading in Kitsap for the week.





#### TEMPERATURE & HEAT-RELATED VISITS TO KITSAP EMERGENCY DEPARTMENTS

Updated January 13, 2025

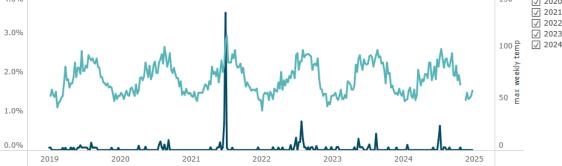
√ (All)

**Definition:** The dark blue lline is the percentage of Kitsap County emergency department (ED) visits that were for heat-related symptoms, as identified through the CDC ESSENCE Chief Complaint Discharge Diagnosis (CCDD) query category, Heat-Related Illness V2, among chief complaints and discharge diagnoses. The lighter blue line is the maximum temperature recorded in Kitsap for the week during each summer.

The CDC defines Heat Related Illness as the following: Heat Stroke, Heat Exhaustion, Rhabdomyolysis, Heat Syncope, Heat Cramps and Heat Rash.

The light blue line is the max temperature observed for each week for each year. These readings were taken from the maximum temperature between two monitoring stations in Bremerton for each day.

# Heat-related ED visits (as a percentage of all visits) & Maximum Temperature Recorded 4.0%





Conducting public information and community outreach in collaboration with our communications program



LEARN MORE: wasmoke.blogspot.com | pscleanair.gov | kitsappublichealth.org | 360-728-2235

ecology.wa.gov/Air-Climate/Air-quality/Smoke-fire



Now is the time to prepare your home and workplace for smoky days ahead. Keep in mind that

some supplies, such as fans, filters, and air conditioners, could be more difficult to find as summer

progresses. Scroll down for more tips and resources or visit our Air Quality and Smoke Page



 Stay in cool, indoor spaces as much as you can. If you are not able to stay cool in your home, go to a public space with air



- · Drink plenty of water. Limit caffeine, alcohol, and
- · Wear loose, lightweight, light-colored clothing. Cool vourself with wet clothing. Use sunscreen,
- Pace yourself when working or exercising outside. Try to plan activities in the mornings. Take breaks.
- · Take cool showers or baths, or visit a pool, lake or swimming beach. For current beach advisories, go to kitsappublichealth.org/beaches or call 360-728-2235.
- Check on neighbors and loved ones. Visit or call at least twice a day, and encourage them to follow these tips.

LEARN MORE: cdc.gov/extreme-heat | weather.gov | kitsapdem.com | kitsappublichealth.org | 360-728-2235

Check your favorite local news source or

Learn about cooling centers

Cooling centers may be open when the

kitsapdem.com 21

weather is extremely hot I earn more:

the National Weather Service

weather.gov

206-526-6087



#### PUBLIC HEALTH NEWS



#### How to stay healthy on hot days

Heat-related illnesses and deaths happen every year in the United States, though they are preventable. I earn how to protect yourself from heat risks.

Right now, a heat wave is blanketing the United States from the Midwest to the Northeast. Many cities are experiencing record-breaking temperatures that pose dangerous health risks - especially to those who don't have a cool place to go.

Though the weather is not as hot here in the Pacific Northwest, our region is expected to experience above-average temperatures this summer

Getting too hot can make you sick. Heat-related illnesses, like heat exhaustion or heat stroke, can happen to anyone and are most likely to affect

Kitsap County when unhealthy air quality or extreme heat is expected. For information or to sign up for notifications, go

to kitsandem.com or call 2-1-1.



Helping to distribute supplies when resources are available

- Portable Air Cleaners from Washington Department of Health
- Other materials as available

For inquiries about availability, email:

prepare@kitsappublichealth.org



# THANK YOU!

nathan.anderson@kitsappublichealth.org



kitsappublichealth.org