Promoting Healthy Indoor Environments in Region 10: Alaska, Idaho, Oregon, & Washington

Washington State Board of Health Panel January 10, 2024 Erin McTigue, MPH



Topics

Role of EPA

Focus areas for indoor air work

Key resources

Opportunities to connect

EPA Role in Indoor Air & Housing



Technical assistance Training, science, research, guidance



Coordination
of federal
agencies,
funders, others



Funding
Environmental
programs,
technical
assistance
providers



'Voluntary'
indoor air
program
Limited
authority for
indoor
environment

EPA's Indoor Air Related Grant Authorities

State Indoor Radon Grant (SIRG)

- State Agencies in OR, ID, WA, AK
- Nez Perce, Spokane, Coeur D'Alene

Indian General Assistance Program (IGAP) Grants

Grants to Tribes/Consortia for enviro capacity building

Clean Air Act (CAA) Grants

- State and Tribal Air Programs
- Technical Assistance Providers e.g., Tribal Healthy Homes Network

Environmental Justice Grants

- Climate resiliency
- Multi-media

New: National Indoor Environments Grants

- Wildfire Preparedness in Community Buildings closed.
- National policy/systems change grants open.

Looking forward – new funding, projects, learning

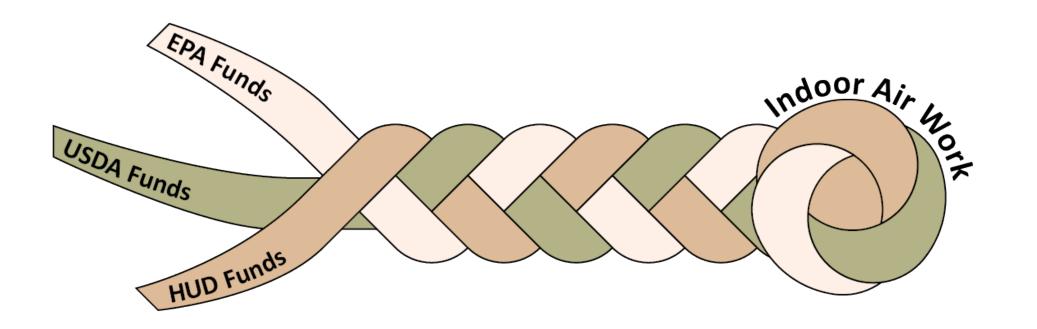
Chelan County - \$999,839 to build climate change resiliency from wildfires and protect health through smoke disaster preparedness.

Public Health - Seattle & King County - \$1,000,000 for the Healthy and Resilient Communities Project to address indoor environmental health and climate change in South Seattle and South King County.

Tacoma-Pierce County Health Department - \$1,000,000 for the Community-Led Wildfire Preparedness Initiative in Key Peninsula, East and Southeast Pierce County

Farmworker Justice Fund, Inc. - \$500,000 for wildfire preparedness and resiliency in farmworker communities across the state.

US EPA Environmental Justice Grants, 2023 - a sampling of R10 awards Methow Valley Citizens Council - \$460,504 to build climate resiliency from wildfire and other climate impacts through community-oriented solutions in Okanogan County.



Braid Funds to Reach Indoor Air Goals

Indoor Air Focus Areas

Address housing and health disparities, including rural and tribal

- Promote best practices, provide and coordinate training
- Tools for education, resident behavior change, builders, funding

Children's environmental health protection

- Respiratory health disparities
- School (and childcare) tools and training

Climate change impacts

- Disaster preparedness and response flooding, wildfire/smoke, etc
- Mold and moisture

Also...

- SARS-COV2
- Sensor technology







Focus: Tribal Indoor Air Needs

Government to Government & Trust Responsibilities



Working to address pediatric asthma disparities in tribal populations, with a focus on holistic approaches that remove environmental asthma triggers

- Center for Medicare & Medicaid Services
- Governor's Interagency Council on Health Disparities
- Nimiipuu Health and Nez Perce Tribe Air Quality Program
- Northwest Portland Area Indian Health Board
- Portland Area Indian Health Service

- Urban Indian Health Institute and the Seattle Indian Health Board
- U.S. Department of Health and Human Services
- U.S. Department of Housing and Urban Development
- U.S. Environmental Protection Agency
- Tribal Healthy Homes Network

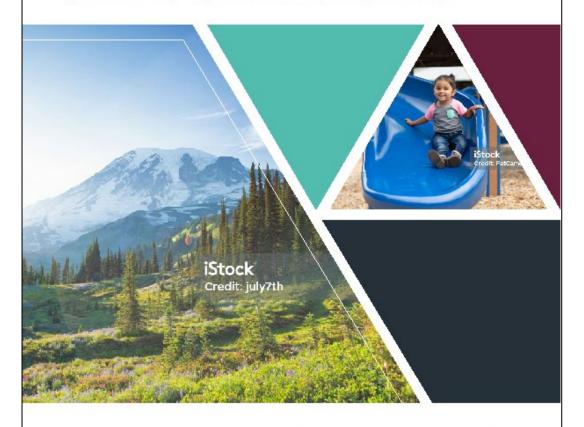
Collection of Resources on Tribal Asthma

- Protecting Native Children with Asthma: Resources from the Northwest Tribal Asthma Initiative
- Collection of 13 documents with information for policy makers

PROTECTING NATIVE CHILDREN WITH ASTHMA:

Resources from the Northwest Tribal Asthma Initiative

The Northwest Tribal Asthma Team is a volunteer partnership group working to address pediatric asthma disparities in tribal populations, with a focus on holistic approaches that remove environmental asthma triggers. The team is led by EPA Region 10 and serves Alaska, Idaho, Oregon, and Washington.







Tulalip Tribes & Tribal Healthy Homes Network:

Air Matters, Smoke Matters Toolkits, Education and Training





SmokeMatters Kit from Tribal Healthy Homes

Network: https://thhnw.org/smoke-ready-toolkits/











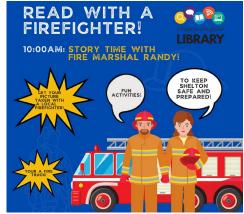


- Twin Draft Guards
- N95 Masks (2 pk)
- MERV 13 Filters (2 pk)
- Box Fan
- Microfiber Cloths (2 pk)
- Indoor Air Sensor (optional)
- Cue cards

Focus: Rural Indoor Air Needs

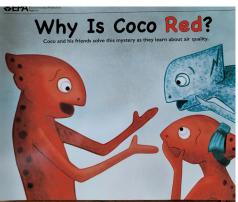
Outreach Tools and Models







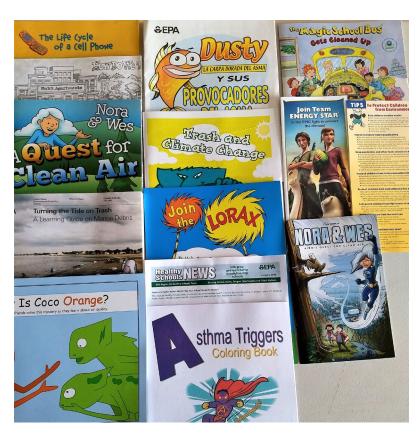
- Rural library program
- Coordination with fire marshals, FEMA, others
- Yakima area outreach events
- Flag program











Library Program Outreach – Indoors & Out!

NW Pediatric Environmental Health Specialty Unit







NORTHWEST RADON POSTER CONTEST

Contest aims to raise awareness about radon and how to protect your household.

WHAT IS RADOM?

Radon is a naturally occurring radioactive gas that can buildup in our homes. Both old and new housing can have radon problems. Testing is the only way to know if your home has radon because It is colorless, adorless, and tasteless. Long-term radon exposure is the number one cause of lung cancer in nonsmokers and the second-leading cause of lung cencer in smokers.

HOW TO ENTER

Find contest submission forms, lesson plans, and rules here.

First, second, and third place winners will be selected from each state (Idaho, Oregon, and Washington). A regional grand prize will be selected from the winning submissions.

The first-place posters from each state will be submitted to the 2005 National Radon Poster Contest. All participating students will learn about radon and how to reduce their risk of exposure.



Scan the GR code or click here for more information and how to enter.



















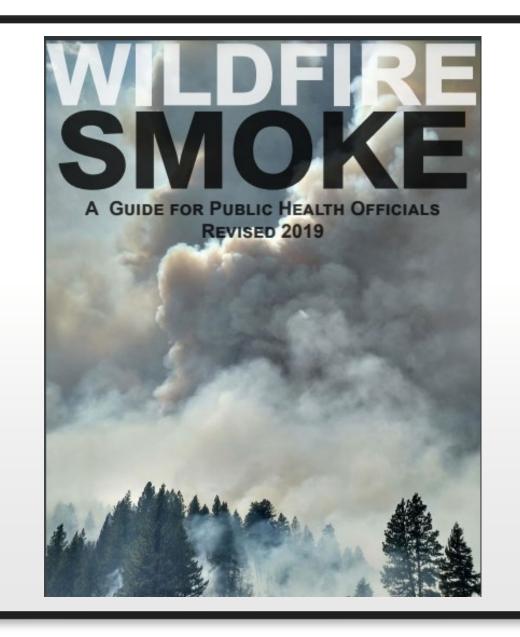


Focus: Climate, Wildfire Smoke, Heat, Overlapping Hazards









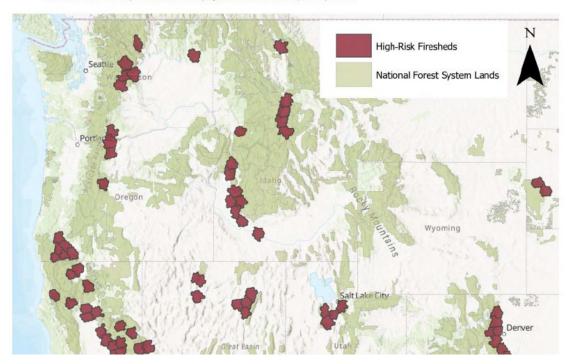
High-Risk Firesheds and High-Risk Airsheds

COUNTIES AT-RISK OF VIOLATING PROPOSED EPA PM STANDARDS



HIGH-RISK FIRESHEDS

Community exposure is a central factor in the strategy to confront the wildfire crisis. Other factors include Tribal and State plans, watersheds, equity, climate forecasts, and partner priorities.











Join the #SmokeReady campaign!

Smoke Ready Week: June 12-16... and all season

Thanks to the NW Air Quality Communicators



DIY Air Cleaner Designs: Beyond the Basic



Good

Basic Supplies:

- 20" x 20" box fan
 20" x 20" x 1" or 4" MERV 13 air filter
- 20" x 20" cardboard shroud (cutout the size of the fan blades)
- · Clamps, duct tape, or bungee cords



Ways to Improve Effectiveness:

- Add a cardboard shroud (no-cost improvement)
- Use thicker filters (4" rather than 1" MERV 13 filters)
- Use multiple filters (2-5 filter designs)

Key Reminders:

- Only use certified fans with UL or ETL marking (2012 model or newer)
- · Keep extra filters on hand
- Replace filters when dirty

Best

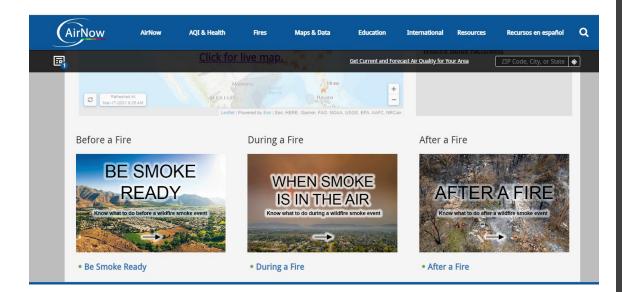
Additional Supplies: • Four or five - MERV 13 air filters

 If using five filter design, use leg supports (e.g., blocks) to allow airflow through bottom

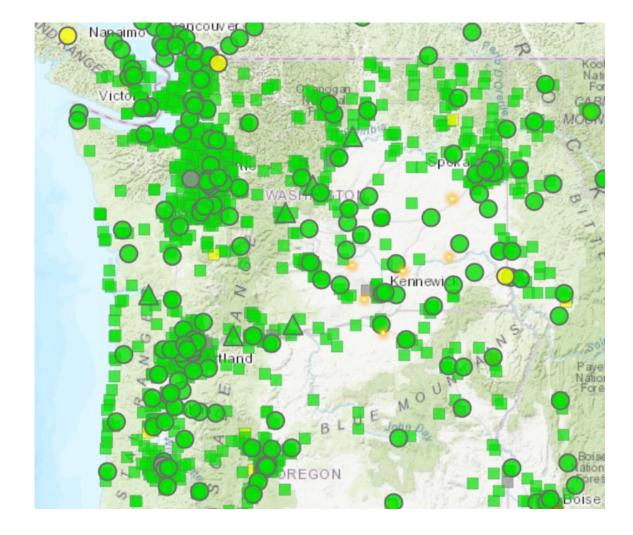
Better

Additional Supplies:

- Two MERV 13 air filters
- Triangle cardboard cutout for base on top



Wildfire Smoke: Tools to Reduce Exposure



HEAT AND SMOKE – OVERLAPPING HAZARDS

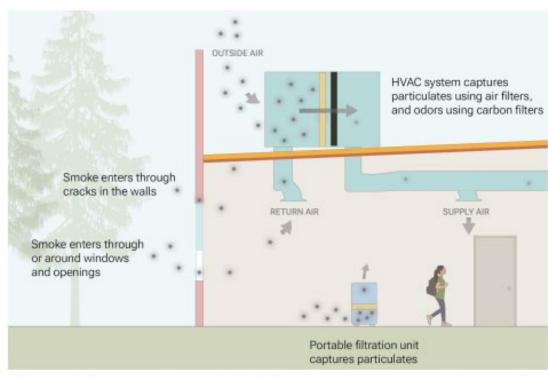


Figure 3: Sources of smoke inflitration during a smoke event

Schools as Cleaner Air and Cooling Centers: Tips for Facility Managers, Principals, Teachers, and Parents and Caregivers

Communities across the United States are facing the impacts of climate change, including severe health consequences from disasters like heat waves and wildfires. The factsheets below can help guide important school partners on how to make schools safer during these increasingly frequent and more severe climate change impacts.

On this page:

- <u>Factsheets</u>
- Climate Impacts and Sensitive Populations
- Schools as Community Cleaner Air and Cooling Centers 2021
 Pilot Program

Apply Now!

Climate Resilient Schools Program

This program will help school districts get buildings ready for the impacts of climate change.

New tech assistance resource through the Climate Resilient Schools Program!

https://www.epa.gov/schools/climate-resilient-schools-program

Focus: Infectious Disease, Cleaning and Disinfecting

Frequent Questions about Indoor Air and Coronavirus (COVID-19)

View all frequent questions related to indoor air and <u>Coronavirus</u> (COVID-19) below.

Go to Frequent Questions about Coronavirus (COVID-19).

Indoor Air

What is Upper-Room Ultraviolet Germicidal Irradiation (UVGI)? What is HVAC UVGI? Can either be used to disinfect the air and help protect myself from COVID?

<u>Can running the HVAC system in my home help protect</u> me from COVID-19?

What kind of filter should Luse in my home HVAC

Frequent
Questions
about
Indoor Air
and
COVID-19
in Other
Languages

- Español
- <u>عربی</u> •
- 中文:简体版
- 中文:繁體版
- Kroudlaulauan

\$EPA

Clean Air in Buildings Challenge

U.S. ENVIRONMENTAL PROTECTION AGENCY

MARCH 2022

CLEANING AND DISINFECTING

Best Practices During the COVID-19 Pandemic

Good Idea

Follow CDC, State, and Local Public Health Guidelines

According to the Centers for Disease Control and Prevention (CDC), COVID-19 is mainly spread through the air. The risk of getting the virus by touching a contaminated surface is thought to be

Clean Surfaces with Soap and Water

Normal routine cleaning with soap and water lowers the risk of spreading COVID-19 by removing germs and dirt from surfaces. In most situations, cleaning is enough to reduce risk.



Use EPA-Registered Disinfectants According to Label Directions

Disinfectants further lower the risk of spreading COVID-19 by using chemicals to kill germs. Use disinfectants on high-touch surfaces when you know or suspect someone around you is sick with COVID-19.

Be Careful

Be Careful Using Disinfectants Around People with Asthma

Disinfectants can trigger an asthma attack. If you have asthma, you may need to take extra precautions like avoiding areas where people are cleaning and disinfecting or making sure the space is well ventilated.

Be Careful with Fogging, Fumigating, and Wide-Area or Electrostatic Spraying

Make sure your product's label includes directions for the application method. Follow all directions, including precautions. If a product isn't labeled for these application methods, using it that way might be risky or ineffective.

Be Careful With UV Lights or Ozone Generators

UV lights or ozone generators may be risky or ineffective. EPA cannot verify if or when it is appropriate to use these devices. Check out the guidance at: go.usa.gov/xHckJ

Don't Do It

Don't Ask Children or Students to Apply Disinfectants

Disinfectants are powerful tools for controlling the spread of disease, and they can harm kid's health if used or stored incorrectly. Children and students should not apply disinfectants, and they should be kept out of children's reach.

Don't Ignore the Label Directions

If you don't follow the label directions, disinfectant products may be ineffective or unsafe. Do not apply disinfectants to skin, pets or food. Do not dilute disinfectants or mix them with other chemicals unless the label tells you to. Don't think that twice the amount will do twice the job.

Don't Use Unregistered Disinfectants

If a product says that it kills SARS-CoV-2 (COVID-19), but it doesn't have an EPA registration number, it may not be safe or effective. Federal law requires disinfectants to be registered with EPA.



Air Cleaners, HVAC Filters, and Coronavirus (COVID-19)

Ventilation and Coronavirus (COVID-19)

Webinar: Solutions and Resources to Address COVID-19 in Schools: Establishing Lasting Improvements to Ventilation and IAQ

Recorded February 10, 2022

Webinar: Ventilation and COVID-19 in Schools: Using a Framework to Assess, Prioritize, and Plan for HVAC Upgrades and IAQ Improvements

Recorded October 21, 2021

Thank You

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Mel Sheldon, a Tulalip Tribal Board Member, supports partnerships that protect those at risk in tribal communities... When we want to protect our young, our elders, the most vulnerable...It asks us, no, it demands us, that we go into immediate action...that we work with EPA, with HUD, and with all entities to resolve this so we can safeguard the health of our people. — Mel Sheldon

