

June 30, 2022, RAWSEP news paraphrased

1.U.S.A., Midwest (U.S. South)

Indiana

[Search for answers continues more than 50 years after teens burned to death in cabin - Fox 59](#)

Fox 59

A wood-burning stove inside a burned out cabin rests against a portion of the. Nearly two and a half years after the deadly fire, evidence of the ...

RAWSEP View: In Brownstown, Indiana, more than 50 years after a cabin fire killed two teens, police in Jackson County bare still searching for answers. Police are trying to figure out what happened to a third teen who was with the two verified to have perished on the night of the fire. The 9 by 15 foot makeshift cabin was made out of railroad ties, and made for camping. The three boys left a party at 2 A.M. and around 8 A.M. the cabin was found burned to the ground. Charred human remains, a class ring and a belt buckle remained in the smoldering ashes.

Iowa, Webster County, Otho

[Otho Fire Chief wants county burn ordinance - Messenger News](#)

Messenger News

“Our Webster County Firefighters Association has discussed burn controls ... He said a fire was started to burn some of the wasted wood on May 19.

[Otho Fire Chief wants county burn ordinance - Messenger News](#)

Messenger News

He said a fire was started to burn some of the wasted wood on May 19. The winds picked up to 45 mph later that day, causing embers from the initial ...

RAWSEP View: The Otho Fire Department has been called out to a property across from the Webster County Fairgrounds on U.S. Highway 169 to address large-scale tree waste burning happening at the site. The Otho, Iowa Fire Chief said a fire was started to burn some of the wasted wood on May 19. “They had a pile out there that was probably 150 feet wide by 300 feet long and 15 feet high,” Smith. “Something like that, the way it is stacked up is nearly impossible to put out.” He said the Otho and Moorland fire departments spent about six hours fighting that fire that night. In total, in the last several weeks, the Otho Fire Department has had to go to that site about seven times and has used more than 35,000 gallons of water on the fires. “the bill is almost \$14,000.” According to county records, the land owner is known, but fire chief said another person leases the land and is responsible for the burning. The fire chief said he has been unable to locate the tenant to serve him with the bill. “There are portions of it still burning,” he said. One reason the fire chief wants a county burn ordinance is to require that individuals conducting controlled burns call the Webster County Law Enforcement Center before burning. The fire chief is going to work drafting a possible ordinance.

Missouri, St. Charles County

[3 first responders, resident injured in St. Charles County house fire - KSDK](#)

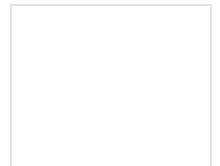
KSDK

A home along Wood Oaks Drive caught fire Tuesday morning. ... city officer were also taken to a hospital as a precaution for smoke inhalation.

RAWSEP View: In St. Charles County, Missouri, 3 first responders were injured with smoke inhalation and taken to a hospital as a precaution after rescuing a woman from a house fire near St. Peters, Missouri. Large flames engulfing much of the home and heavy black smoke poured out of the roof. Smoke was seen for two miles away. The screams of the victim alerted responders to her presence. The victim was taken to a hospital with serious injuries. The cause of the fire is still under investigation.

North Carolina, Rowan County, Salisbury

[Mack Williams: Smoke gets in your nose - Salisbury Post](#)



Salisbury Post

... a strong smell of wood smoke from one of my neighbors' "wood burners" during the ... It's a pity certain places don't allow leaf burning now!

[Mack Williams: Smoke gets in your nose - Salisbury Post](#)

Salisbury Post

Annually, and like clockwork, there will be a strong smell of wood smoke from one of my neighbors' "wood burners" during the cold months of the ...

RAWSEP View: The author's "smoke memories" from domestic wood burning seem cathartic to him. Cathartic means cleansing. Residential wood burning is actually the opposite of cleansing, because it pollutes the air. Residential wood burning seems old-fashioned to him. When the author, from North Carolina, was growing up, he believes "the term "second-hand-smoke" was not even thought of yet!" He also believes "It's a pity certain places don't allow leaf burning now! That annual burn was sort of like a cathartic sense of absolution for a year's built-up pile of sins!" He also reminisces that years ago, he accidentally set fire to a section of woods adjacent his family's house with a skyrocket. That was more of a "fire memory" than a "smoke memory" to him. Many years later, in the Appalachians, he noticed the odor of smoke. Looking down in the "holler", the (valley), he saw what resembled a low-lying cloud stretching slowly upward into a solid blue sky. It was a more-than-modest-sized forest fire! He remembers a Tennessee fire caused week-long smoke smell. He says annually, and like clockwork, there will be a strong smell of wood smoke from one of my neighbors' "wood burners" during the cold months.

Tennessee

[2-alarm fire breaks out at British Woods Apartments near Nashville airport - News Channel 5](#)

News Channel 5

When firefighting crews arrived on the scene, they found heavy smoke coming out of the building and early reports indicated that people may be trapped

RAWSEP View: In Nashville, Tennessee there was a two alarm fire in an apartment building. The building and all 21 of its units were completely destroyed. The cause of the fire remains unknown at this time, but the apartment did not have a sprinkler system.

Texas, Tarrant County

[Tarrant County issues burn ban ahead of the Fourth of July weekend](#)

Fort Worth Star-Telegram

Gas grills are the safest outdoor cooking option, but please keep the flames covered during its usage. To use a charcoal or wood-burning grill, it ..

RAWSEP View: Tarrant County, Texas issued a burn ban ahead of the Fourth of July weekend.

Texas, Abilene & Vernon

[Why tank up if you can burn mesquite? Hanaba Welch column - Times Record News](#)

Times Record News

In fact, Low-Tech Magazine (check their website) cites all sorts of statistics to say that a million wood-burning producer gas-fueled vehicles .

[Why tank up if you can burn mesquite? Hanaba Welch column - Times Record News](#)

Times Record News

Somebody needs to design a mesquite-burning Stanley. ... mainly in Europe but also elsewhere, that ran on producer gas produced from burning wood.

RAWSEP View: Here's the joke: the editor spent 45 minutes the editor will never get back, searching for the humor in this. A Texas columnist joked about burning kerosene extracted from wood instead of using gasoline in automobiles because of the high cost of gasoline today. Joke number 1: Gasoline costs more than beer today, so drink and don't drive. The columnist thinks this is funny, but wrong. Beer now costs 8 cents an ounce. Gasoline now costs 3.52 cents an ounce. Joke number 2: The columnist's daddy said a little boy loved the smell of gasoline so much, they found him dead

with his nose in the gas tank. The columnist thinks this is funny, but wrong. She thinks the boy had some sort of pre-existing condition. Joke number 3: If you've always wanted a vehicle with a fireplace, now's the time. Can't you see a big motorhome cruising down the highway, towing a wagon with firewood, smoke coming out of the chimney? And the tailpipe! Joke set up: The columnist thinks burning kerosene extracted from wood is preferable to kerosene extracted from coal for running a steam-powered automobile. Stanley Steamers, back around 1915, were steam-powered automobiles fueled by gasoline for the pilot light and kerosene for the main burner. While kerosene can be extracted from coal, oil shale, and wood, it is primarily derived from refined petroleum. Joke number 4: Low-Tech Magazine, check their website, cites all sorts of statistics to say that a million wood-burning producer gas-fueled vehicles were in use worldwide mainly in World War II. They've got pictures to prove it, including one of a Volkswagen that rolled off the assembly line designed to run on wood. Joke set up: All sorts of gasifier-equipped vehicles were used during World War II, mainly in Europe but also elsewhere, that ran on producer gas produced from burning wood.

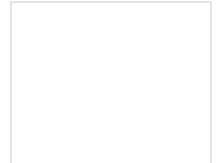
West Virginia, Lincoln County, Hamlin (reported by an Ohio station)

[Smoke alarm saves firefighter during house fire - WSAZ](#)

WSAZ

Jodi Ridenour, 35, of Willow Wood, Ohio, was sentenced to four and a half years in prison for sexual relationship with teen.

RAWSEP View: In West Hamlin in Lincoln County, West Virginia, a smoke alarm saved a firefighter during a house fire. The 11 year veteran volunteer firefighter was wakened at 5 A.M. by one of his smoke detectors. He saw the smoke and flames. The fire extensively damaged a home he shared with his mother, who was in the hospital when the fire broke out.



2.U.S.A., Northeast Coast

New Hampshire

[Multi-alarm fire burns at lumber mill in Greenfield - WMUR](#)

WMUR

Photos and video from the scene showed flames and a large plume of smoke coming from what appeared to be a pile of sawdust and wood pieces. The New

RAWSEP View: In Greenfield, New Hampshire there was a multi-alarm fire at a lumber mill on Sawmill Road, fueled by wood and sawdust. About twenty towns were involved either fighting the fire, or covering other fire stations. The fire was brought under control Saturday evening, and no injuries were reported. A citizen and his family attending a Saturday Greenfield Fire Department fundraising barbecue saw the smoke as mile away, and citizen said his family arrived at the site of the fire before firefighters did. Fires provide dramatic photos for local newscasters.

New Jersey

[NJ Forest Fire Burns 12K Acres, Prompts Highway Closures | Across New Jersey, NJ Patch](#)

[Massive NJ forest fire grows to 12000 acres, but fire crews making substantial progress](#)

NJ.com

The fire has been burning since Sunday in New Jersey's biggest state forest ... "At this time, we know that there is a strong odor of wood burning ...

[NJ Forest Fire Burns 12K Acres, Prompts Highway Closures | Across New Jersey, NJ Patch](#)

Patch "Motorists traveling in the area should remain cautious of smoke and watch ... is a "strong odor of wood burning" present throughout town as well.

[Did You Smell Smoke? NJ Wildfire Haze Wafted into Philly Region Today](#)

NBC10 Philadelphia

Light smoke from a New Jersey state forest fire wafted over much of the ... An illegal campfire deep in the woods has been determined as the cause ...Patch

NEW JERSEY - A forest fire that burned 12,000 acres and prompted ... there is a "strong odor of wood burning" present throughout town as well.

RAWSEP View: The Mullica River Fire could be New Jersey's largest forest fire in 15 years before it's completely contained, officials said. A forest fire that burned 12,000 acres. 50 residents have been evacuated from the area. Some roads remain closed. Haze and smoke are likely to be seen in the morning Tuesday. There is a "strong odor of wood burning" present throughout the town of Galloway as well. Shawn LaTourette, the state Commissioner of Environmental Protection and other officials mentioned several ways humans can accidentally cause fires, but did not point to any specific one as the reason this latest burn began.

New York

[Air pollution study: Living by a major roadway increases your risk of death - silive.com](#)

Staten Island Advance

... low-income communities throughout the United States have been disproportionately affected by fine particulate air pollution, known as PM 2.5.

RAWSEP View: Residential wood burning emissions emit 90% PM 2.5, and are similar to emissions from wildfires. Residential wood burning emissions are not mentioned in this article. The author of the Staten Island article stated that "Data has shown Staten Island's North Shore, where [underlying conditions are more common](#) and health care inadequacies are more pronounced, has higher levels of PM 2.5 than other areas of the borough." Staten Island, New York publicized an Iran-based study that showed that living by a major roadway increases your risk of death because of PM 2.5 from traffic. This Iran-based study findings, The majority of the people included in the Iranian study, conducted between 2004 and 2008, were from 326 small rural villages in the area, while around one-fifth of the research participants were selected randomly from Gonbad City in Golestan, Iran. The study's authors suggested that their findings could enable health systems to create risk maps based on publicly available data. "For example, a cardiologist in California might screen their patients for risk of exposure to wildfire smoke," said Vedanthan. "Physicians could then recommend key interventions for at-risk patients, such as monitoring local air pollution levels, and staying indoors, wearing a mask, or using indoor air filtration to reduce exposures when pollution levels are elevated."

Pennsylvania, Huntingdon County

[Events coordinator position created | Local | huntingdondailynews.com](#)

Huntingdon Daily News

... voicing concerns about outdoor wood-burning stoves. ... council to consider an ordinance prohibiting wood burners in some non-residential out ...

RAWSEP View: In Huntingdon County, Pennsylvania the council is considering an ordinance prohibiting wood burners.

Vermont

[Cautions issued for backyard burning - WAMC](#)

WAMC

Vermont Air Pollution Control regulations allow on premise burning of brush, dead wood, or tree cuttings collected during normal property ...

RAWSEP View: This is a Vermont Public Radio article. The Vermont Department of Environmental Conservation reminds the public that Vermont Air Pollution Control regulations allow on premise burning of brush, dead wood, or tree cuttings collected during normal property maintenance as long as no public or private nuisance, such as excessive smoke, occurs. Wind direction and speed must be checked before a burn begins and postponed if conditions are unfavorable. A local burn permit from a town fire warden is also required. The department prefers that natural materials not be burned and be allowed to decompose naturally.

3.U.S.A., West Coast, (Alaska)

Alaska, Fairbanks

[Study shows chemical's extent in the Fairbanks winter air - Phys.org](#)

Phys.org Knowing the correct makeup of the fine particulate matter pollution is key to implementing ... "A lot of sources contribute to PM2.5," he said.

RAWSEP View: Formaldehyde likely gets into the air from burning wood. Scientists have known that hydroxymethanesulfonate forms through the combination of sulfur dioxide and formaldehyde, which combine when they are attracted to liquid particles in the atmosphere. Studies have shown that wood smoke contributes 40% to 70% to the wintertime PM_{2.5} mass concentration in Fairbanks. "Fairbanks is one of the few optimal places for HMS formation," said the Hydroxymethanesulfonate researcher Jingqui Mao. "And that is not necessarily a good thing. "Hydroxymethanesulfonate, or HMS, a chemical compound discovered in 2019 in the wintertime air of Fairbanks, Alaska accounts for a significant portion of the community's fine particulate pollution, according to new research that seeks to better understand the causes and makeup of the dirty air. The finding is the first measurement of how much hydroxymethanesulfonate, or HMS, is in the Fairbanks, Alaska, air. The compound, HMS, constituted 3% to 7% of the total amount of particles less than 2.5 micrometers, or PM_{2.5}, during pollution episodes. The research was published in May in *Environmental Science & Technology* and authored by James Campbell. Very little is known about the health impact of HMS. A lot of sources contribute to PM_{2.5}," said Jingqiu Mao, the principal investigator on the research. "But when you start thinking about improving air quality, which part should be dealt with first? And what are the consequences of that?" Scientists have known that hydroxymethanesulfonate forms through the combination of sulfur dioxide and formaldehyde, which combine when they are attracted to liquid particles in the atmosphere. Sulfur dioxide comes from combustion of fossil fuels, including heating oil and coal. Formaldehyde likely gets into the air from burning wood.

Arizona, Maricopa County

[PM-10 High Pollution Advisory issued for today in Maricopa County](#)

Arizona Emergency Information Network - az.gov

Wood burning in residential fireplaces, chimeneas, outdoor fire pits and ... This includes individuals and businesses which have burn permits for ...

[Ozone High Pollution Advisory issued for Saturday, June 25 and Sunday, June 26](#)

Arizona Emergency Information Network - az.gov

Wood burning in residential fireplaces, chimeneas, outdoor fire pits, ... pet hides when afraid of something in the house, such as a smoke alarm

RAWSEP View: A forecast for high winds a couple of days has prompted the Arizona Department of Environmental Quality (ADEQ) to issue a High Pollution Advisory for PM.10 particulate pollution for Friday, April 22. Maricopa County followed the ADEQ advisory by implementing its air quality regulations that followed suit. Friday was a no-burn day for wood burning. The **Arizona Department of Environmental Quality issued an Ozone High Pollution Advisory** for Saturday, June 25 and Sunday, June 26, 2022. Restrictions: Wood burning in residential fireplaces, chimeneas, **outdoor fire pits**, and similar **outdoor fires** was prohibited in Maricopa County.

California, North Coast Unified Air Quality Management District, Humboldt, Del Norte and Trinity counties

<https://www.times-standard.com/2021/06/25/air-quality-monitoring-resources-available-for-north-coast-residents/#:~:text=The%20North%20Coast%20Unified%20Air%20Quality%20Management%20District,Trinity%20counties%20prepare%20for%20smoke%20impacts%20during%20wildfires.>

[Preparing for Smoke Impacts: The North Coast Unified Air Quality Management District ...](#)

Redheaded Blackbelt

... this website provides the best information for viewing smoke maps, deployed PM2.5 wildfire monitors, and corrected sensor information.

RAWSEP View: The U.S. Environmental Protection Agency also operates a fire and smoke map which also includes information on smoke impacts and air quality. The map offers detailed information on viewing smoke monitors and corrected sensor information. Resources to keep North Coast residents update on air quality conditions are available ahead of the incoming wildfire season. The North Coast Unified Air Quality Management District will be issuing unified air quality smoke advisories combining all relevant information this year to help residents of Humboldt, Del Norte and Trinity counties

prepare for smoke impacts during wildfires. Air quality indexes will have warning levels, such as hazardous, unhealthy and moderate, among others. The advisories will be taking the place of the separate air quality documents previously issued by the district. Residents within district bounds can sign up to receive the air quality updates via email on the district's website at www.ncuaqmd.org, by calling 707-443-3093, or by contacting wildfire@ncuaqmd.org. Exposure to wildfire smoke poses potential threats to human health. Susceptible populations are advised to remain indoors and avoid prolonged and strenuous physical activity during a smoke event. The precaution is also extended to healthy adults, who can also be affected by smoke inhalation. The district advises seeking medical help in case of symptoms or if these worsen or become severe. Do not run fans that bring smoky outdoor air inside – examples include swamp coolers, whole-house fans, and fresh air ventilation systems. Run your air conditioner only if it does not bring smoke in from the outdoors. Change the standard air conditioner filter to a medium or high efficiency filter. If available, use the “re-circulate” or “recycle” setting on the unit. Individuals are also advised to consider leaving the area until air quality conditions improve, or if you or a member of your household has symptoms including repeated coughing, shortness of breath, difficulty breathing, wheezing, chest tightness or pain, palpitations, nausea, unusual fatigue, lightheadedness.

California, San Diego

[Your Say: What changes are in store for beach bonfires in San Diego?](#)

The San Diego Union-Tribune

They 100 percent should ban bonfires outside designated burn pits. ... “A) Ban all wood-burning and charcoal fires on all beaches, except in city ...

RAWSEP View: San Diego, California Letters to the Editor about banning beach bonfires in San Diego. Only Letter five addresses air pollution issues of wood burning. Letter 3 considers it a class issue that the wealthy can have polluting wood burning bonfires, but those polluting wood burning bonfires are being limited for the working class. The titles of the letters were 1. Don't punish those who have safe fires, 2. Many reasons to ban fires on our beaches, 3. City needs to install more beach fire pits, 4. Can't people make this small sacrifice? 5. Lack of enforcement a big part of problem, 6. Propane is not the way to go, 7. Safety should be the top consideration, 8. City must find a way to keep fires safe.

From Letter 4. Can't people make this small sacrifice? Environmental scientists still don't know when we will have reached the “tipping point,” or, to put it another way, the “point of no return,” at which time it will be too late to save our precious planet from its demise caused by humanity's calloused degradation of our world and its environs. And you want a bonfire on the beach?

Let's address the dangers of fire, both wild and contained, caused by nature and caused by man. Fire shouldn't be used for entertainment; if you're looking for something to do at the beach, pick up some trash left by others who chose to ignore our declining environment. If you're not part of the solution, you're part of the problem.

Houses are now being built without fireplaces (or, in some cases, built with electric fireplaces) because fire produces a contaminant. It's like having a very large cigarette. It sucks the oxygen out of our air and widens the holes in our Earth's ozone layer.

From Letter 5: Lack of enforcement is a big part of the problem: “A) Ban all wood-burning and charcoal fires on all beaches, except in city fire rings. But if not, consider the suggestions below.

“B) No fires or coals can be burned within 300 feet from any structure or plants.

“C) Use fire department or lifeguard personnel to patrol beaches on weekends. They don't have to issue citations but can put the fires out and inform the offenders. If there is a problem, they can call police.

“D) Mandate that no wood-burning fires can occur after 10 p.m.

“E) No ‘fire balloons’ or any incendiary shall be sent airborne.

“There are other preventative measures, I'm sure, but they depend on the city's desire to enforce laws. Thank you for your consideration.”

The council members unanimously responded that the only manageable solution is “A” above. Since there are few resources available to cite “crimes and misdemeanors,” I have to agree.

From Letter 7: Safety should be the top consideration: I strongly believe that there should be a ban on wood burning fires outside of the concrete rings/squares. It can be dangerous to nearby dwellings, as the fire containers can be placed close to residences. Fire rings were removed years ago for these very same reasons.

From Letter 2. Many reasons to ban fires on our beaches: His 3 year old daughter was on a beach 2 years ago and rolled into hot coals left over from a bonfire which had sand kicked over it, which had been burning all night and morning. His daughter was instantly covered in second-degree burns all over her back, shoulder and arm, resulting in permanent scarring on her skin. There were designated burn areas no less than 20 feet away from where this was. There are hundreds of burn pits all across the bay and the beach, and the father is all for even more of them to be installed. He would hate to see this happen to anyone else.

From Letter 3. City needs to install more beach fire pits: Put in more fire pits. This is just another law that is a slap in the face to the working and middle class. So only the wealthy people in La Jolla and Rancho Santa Fe can enjoy a bonfire in their backyards?

California, San Francisco

[California ranks worst in nation for air pollution because of wildfire smoke](#)

San Francisco Chronicle

According to the report, 80% of the world's population lives in areas where average annual concentrations of PM 2.5 — particulate matter that is ...

RAWSEP View: Residential wood burning emissions of 90% PM 2.5 was not mentioned in this article. A report finds that California was home to 19 of the 20 worst counties in the nation for particulate pollution in 2020. If sustained, these pollution levels could shave months, if not years, off the lives of residents, according to the [Air Quality Life Index](#), published this month by the Energy Policy Institute at the University of Chicago. Mariposa County recorded the nation's highest concentration of particulate matter, with the average life expectancy estimated to drop by 1.7 years if the pollutants persist. The dangerous amounts of particulate matter underscore the health risk that wildfire smoke poses. "This is a problem that we have to keep on the radar, not just treat as an aberration in 2020," said Christa Hasenkopf, director of Air Quality Life Index. The new report provides a broad assessment of particulate pollution worldwide and the health risks associated with it. California's skies were still much cleaner than South Asia and Central and West Africa. According to the report, 80% of the world's population lives in areas where average annual concentrations of PM 2.5 — particulate matter that is 2.5 micrometers or smaller — exceeded the World Health Organization's former guideline of 10 micrograms per cubic meter in 2020. The WHO has since tightened its annual guideline to 5 micrograms per cubic meter. PM 2.5 may create hazy skies, but it's way too small to see. The report estimates that PM 2.5 levels in 2020 will reduce average life expectancy across the globe by 2.2 years. The fine particles are inhaled, then lodge into the lungs and bloodstream, where they can create a host of medical problems, from lung disease to heart attacks. According to the report, the concentration of PM 2.5 in Mariposa County averaged 22.6 micrograms per cubic meter in 2020, more than double the previous WHO guideline and quadruple the current guideline. Butte County, the second-most-polluted county in California, recorded 19.5 micrograms per cubic meter, while Tehama County averaged 18.5 micrograms per cubic meter. "One of the purposes of this report is really to just beat the drum on air pollution whether it's in California or Bangladesh," Hasenkopf said. "It's so easy to ignore even though it has this big impact on our lives."

California, San Mateo County, Stanford University area Edgewood fire

<https://www.paloaltoonline.com/news/2022/06/27/after-burning-for-more-than-three-days-the-edgewood-fire-is-98-contained>

[Raw: Chopper 5 video of the Edgewood Fire burning in San Mateo County - CBS News](#)

CBS News

A brush fire broke out in San Mateo County near Redwood City Tuesday afternoon, prompting evacuations.

RAWSEP View: The Edgewood Fire was 98% contained after three days of burning. PG&E is still investigating the cause of the fire. There have been multiple reports from area residents that there was a loud explosion immediately followed by a power outage prior to the fire starting. Pacific Gas & Electric (PG&E) has filed an incident



report with the California Public Utilities commission following the Edgewood Fire. The Edgewood Fire started under the extreme heat near Rocky Way and Eastview Way at Edgewood County Park. The fire cause is still under investigation. The fire created a loss of power for multiple customers including Stanford University's campus. The university canceled summer session classes for the remainder of the week.

California, State Legislature, proposed air pollution protection for workers

[Guest Contributors Jasmine Robinson and Jessica Vived: Proposed Extreme Heat and Air ...](#)

Legal Planet

Poor air quality, and in particular fine particulate matter (PM 2.5) pollution, can also cause serious health problems, including shortness of ...

RAWSEP View: Excerpts from the Proposed Air Quality portion of Protections for Agricultural Workers Advancing in the California State Legislature.

Source Website is Legal Planet. Proposed Protections written by the [California Environmental Legislation and Policy Clinic](#).

Air Quality sections from the Protections for Agricultural Workers:

California Assemblymembers introduced [AB 2243](#), which aims to enhance [existing protections for outdoor workers](#).

Poor air quality, and in particular fine particulate matter (PM 2.5) pollution, can cause [serious](#) health problems, including shortness of breath, reduced lung function, and death. Farmworkers, many of whom are undocumented or Indigenous folk, are disproportionately [affected](#) by the ill effects of poor air quality. Consider lowering the Air Quality Index (AQI) level for PM 2.5 at which employees must wear respiratory equipment when exposed to wildfire smoke from 500 AQI to 301 AQI. ([AQI is a measure](#) that runs from 0 to 500 and is used to measure concentrations of air pollutants. AQI values between 1 and 150 indicate that air is [“unhealthy for sensitive groups,”](#) and the air quality becomes “very unhealthy” or “hazardous” for everyone once the AQI rises above 200.) The requirement that employers who should “reasonably anticipate” their employees may be exposed to wildfire smoke must make protective equipment available once the AQI reaches 151 would remain unchanged. AB 2243 would also lower California’s wildfire smoke AQI threshold, although [Oregon’s existing wildfire smoke standard](#) is still more protective, requiring employers to ensure employees wear respirators when AQI exceeds 251. And as with California’s current air quality standard, AB 2243 would continue to exempt specific workplaces, including workplaces where workers are either not exposed to or are only minimally exposed to poor air quality. Firefighters who are actively engaged in fighting fires are also exempt.

The California Environmental Legislation and Policy Clinic and the Food Law and Policy Clinic, contributed to the research and bill proposal

Oregon, Lake County

[County-wide burn ban in effect for Lake County, Oregon | | lakecountyexam.com](#)

Lake County Examiner

This ordinance shall apply throughout the unincorporated areas of Lake County. ... Also, patio wood-burning or propane units are allowed.

RAWSEP View: The Lake County Board of Commissioners are implementing County Ordinance 27, implementing a county-wide burn ban. Department of Forestry declared fire season to begin June 6.

Prohibited burning includes: any form of burning yard debris, outdoor campfires or bonfires, exploding targets, sky lanterns, burning of combustible materials on private or public property. Prohibited burning shall be enforced by the Lake County Sheriff’s Department, District Fire Chiefs, and they have the authority to order any person to immediately cease any violations. Prohibited burning is a Class B Violation. Depending on your fire district, allowed burning may include; burn barrels with 25 feet of clearance of combustible vegetation or materials, that are monitored, with metal screen covers with ¼” holes or smaller. A water source for complete extinguishment must also be available. Also, patio wood-burning or propane units are allowed. Please consult your jurisdiction fire district for more information. Burn permits will be issued by the fire authority with jurisdictional fire responsibility and legal authority to issue them. This ordinance does not apply to burning for the purpose of generating heat in a stove, furnace, fireplace or other heating device used for habitation.

Ordinance No. 27 can be found at <https://bit.ly/3u6WRmN>.

Oregon, Multnomah County

[County issues first warm weather wood burning advisory due to air pollution](#)

Multnomah County |

This is the first warm weather burn advisory issued since the County Board adopted an ordinance expanding its wood smoke ordinance to year round

[County issues first warm weather wood burning advisory due to air pollution](#)

Multnomah County |

Multnomah County wood burning advisories are issued by 11 a.m. and ... the County Board adopted an ordinance expanding its wood smoke ordinance to

[County issues first warm weather wood burning advisory due to air pollution](#)

Multnomah County |

People asked to not burn wood, as forecasts call for ground-level ozone and high pollution

[County issues first warm weather wood burning advisory due to air pollution](#)

Multnomah County |

The Multnomah County Health Department today issued a "Yellow" advisory asking people to avoid burning wood, starting at noon today

RAWSEP View: In the State of Oregon, Multnomah County Health Department issued a "Yellow" advisory asking people to avoid burning wood, starting at noon.

Oregon, Portland

<https://www.thetelegraph.com/news/article/Business-groups-sue-over-heat-and-smoke-worker-17256637.php>

[Business groups sue over heat and smoke worker protections - Alton Telegraph](#)

Alton Telegraph

The heat rules took effect June 15, while the wildfire smoke rules start July 1. ... Wood River man charged with waterboarding.

RAWSEP View: In Portland, Oregon, business groups sued over heat and smoke worker protections. Regulations adopted by the Oregon Occupational Safety and Health Division mandate that employers act once the temperature or air quality reaches a certain threshold. The heat rules took effect June 15, while the wildfire smoke rules start July 1. Oregon Manufacturers and Commerce, Associated Oregon Loggers Inc. and the Oregon Forest & Industries Council are seeking an injunction to stop the state from enforcing the rules, The Oregonian/OregonLive reported. Together the groups represent over 1,000 Oregon companies and 50 forestland owners. They filed a lawsuit in the U.S. District Court in Medford last week. The groups allege several provisions are too vague to be fairly enforced and that the state's workplace safety agency overstepped its statutory authority by adopting them.

Utah, Great Salt Lake and PM 2.5

<https://sambadenglish.com/us-great-salt-lake-on-verge-of-drying-contaminating-air/>

[US Great Salt Lake on verge of drying, contaminating air - Daijiworld.com](#)

Daijiworld

Large particulate matter from the Great Salt Lake can get stuck in ... "But the really small particles that we call PM 2.5, those are able to go a ...

RAWSEP View: The PM 2.5 discussed in this article is dust of PM 2.5 size, caused by dust storms. However, the size 2.5 microns is the perfect size to infiltrate the human lung, just as PM 2.5 from residential wood burning is. The Great Salt Lake is the largest saltwater lake in the Western Hemisphere and the eighth-largest terminal lake in the world, and lies in the northern part of Utah and has a substantial impact upon the local climate, particularly through lake-effect snow. It borders Salt Lake City, home to some 1.2 million residents. The lake's surface area, which covered about 8,546.9 sq.km in the late 1980s, has since shrunk to less than 2,589.9 sq.km, according to the USGS. "Toxic dust warnings might be our future as the Great Salt Lake shrivels up," The University of Utah's KUER public radio reported on Monday. Large

particulate matter from the Great Salt Lake can get stuck in respiratory systems, Maura Hahnenberger, an associate professor of geosciences who studies dust storms at Salt Lake Community College, told the media.

“They might get caught in your nose and your sinuses in your mouth and in the upper part of your breathing airway. And so that can cause symptoms like coughing, a sore throat, stuffy nose, but not as many kinds of long-term health impacts,” she said.

“But the really small particles that we call PM 2.5, those are able to go a lot deeper into people’s lungs that can cause inflammation in the lungs and can cause respiratory issues, definitely, but also cardiovascular issues.”

4.Canada

Canada

[Most fire-related deaths in Canada are an accident. Here's what you can do to prevent it](#)

Vancouver Is Awesome

This is likely due to the increased use of heaters and wood-burning stoves, StatsCan says. The report also says that one in seven fire-related ...

[Most fire-related deaths in Canada are an accident. Here's what you can do to prevent it](#)

Vancouver Is Awesome

Having a working smoke alarm is key. ... This is likely due to the increased use of heaters and wood-burning stoves, StatsCan says.

RAWSEP View: Statistics Canada Data released this month. There were roughly 220-fire related deaths in Canada each year — from 2011 to 2020 — according to [new Statistics Canada data](#) released this month. 81% classified as accidents, 15% were listed as intentional (i.e. suicides and homicides), and 4% were undetermined. Residential fires are the leading type of unintentional fire-related death in the country. Fire-related deaths that happened in private homes, long-term care facilities, temporary facilities like hotels and trailers, and other residential property represented the majority of all unintentional incidents from 2011 to 2020. And where non-fatal residential fire-related incidents are associated with cooking or electric failures, life-threatening events include the consumption of alcohol or drugs, improperly discarded cigarettes, older age, and men. StatsCan found that from 2011 to 2020, men were 1.5 times more likely to die from an unintentional fire than women. The report also highlights that this is a national and international trend with fire-related death research. Individuals older than 44 are also at a higher risk of dying due to a residential fire than younger people — 4.3 deaths per 100,000 people. The Canadian Coroner and Medical Examiner Database also found that "nearly one-third of unintentional residential fire-related deaths in Canada involved people 70 years and older." It is also important to note that disabilities are common among seniors, which may influence their ability to escape from a fire. In the same time period, a medical examiner reported that 14 per cent of unintentional fire-related deaths involved mobility-related or cognitive impairment. And in more than half of these cases, the individual was older than 70. At-risk factors for fire-related deaths The number of fatal fire-related incidents peaked during the winter months; there were more than twice as many residential fire-related deaths compared to the summer-to-fall months. This is likely due to the increased use of heaters and wood-burning stoves, StatsCan says. The report also says that one in seven fire-related deaths are due to a smoke alarm not working. About 14 per cent of deaths involved homes with a missing smoke alarm, or non-functional one. In addition, 68 per cent of fire-related deaths happened because of smoke inhalation. Another 10 per cent were caused by both smoke inhalation and burns, and 17 per cent were due to burns alone. Further, deaths due to smoke inhalation are often immediate. But deaths caused by burns often involved the person surviving the fire, and then later dying because of complications with burns. Also, people tend to stay indoors for longer during the colder season, which means more smoking inside or burning candles. The StatsCan report notes that at least one in five of these fatal incidents were caused by cigarettes. Data collected by the Canadian Association of Fire Chiefs found that cigarette-related fires led to more deaths than other sources.

Canada

[Op-ed: Supporting a circular economy in the forests - Canadian Biomass Magazine](#)

Canadian Biomass Magazine

Every year in British Columbia, millions of tonnes of waste wood – known in the industry as slash – is burned by the side of the road.

[Op-ed: Supporting a circular economy in the forests - Canadian Biomass Magazine](#)

Canadian Biomass Magazine

There are opportunities to use waste wood to deliver real benefits, ... The smoke from these fires is choking surrounding communities – sometimes ...

RAWSEP: Written by an employee of DRAX, Alan Knight, director of sustainability. Wood waste left over from logging, called slash, makes up 20% of wood that cannot be used by logging companies immediately. The other 80% of wood waste that cannot be used by logging companies immediately, is sawdust. The DRAX director of sustainability, based in the United Kingdom, visited Canada, and after observing slash being burned by the side of the road to protect against providing fuel for wildfires, has the opinion that using slash for wood pellets produced by DRAX plants will make better, less polluting use of slash. RAWSEP's view is that the ultimate use of the wood pellet, in the biomass industry, will cause PM 2.5 pollution at a greater level than coal when burned by the biomass industry.

5.Australia

Australia, Sydney area

[Holly Wainwright one year after moving to the country.](#)

Mamamia

We are in the middle of our second country Winter, a time of crunchy ground leaves and wood smoke in the air. It's a little bit romantic, ...

RAWSEP View: Tragically, even after marriage and children, an Australian woman doesn't know what romance is. Two hours south of Sydney, Australia, an urban dweller moved to the country in 2021. She has lived in the country for eight months. She described wood smoke in the air, after three months of living in the country, as romantic.

Australia, Tasmania

[Burn Brighter this winter - Premier of Tasmania](#)

Premier of Tasmania

The annual 'Burn Brighter this Winter' campaign is providing easy-to-follow advice about how wood heaters can be operated to reduce smoke ...

[Burn Brighter this winter - EIN Presswire](#)

EIN News

Only burn dry, seasoned wood or wood products; Ensure your flue is clean. A well-maintained heater or fireplace should produce little visible smoke ...

RAWSEP View: The advice should be to stop burning wood, and use an alternative source such as wind, solar, heat pump, or the bridge source of natural gas. The burn brighter campaign in Australia gives advice on how wood heaters can be operated to burn cleaner.

[Deadly winter start cues smoke alarm alert | Augusta-Margaret River Mail](#)

Augusta-Margaret River Mail

NSW residents are being urged to check they have a working smoke alarm after a horror start to...

RAWSEP View: New South Wales, Australia residents are being urged to check if they have a working smoke alarm.

Australia, Melbourne

[In winter, a walk around the block can become an exercise in fear - WAtoday](#)

WAtoday

The problem is that the smoke from these wood heaters is extremely bad for asthmatics such as myself. The fine particles can get very deep into your ...

RAWSEP View: This is a first person account of an asthmatic woman living in Melbourne, Australia in a neighborhood with wood burners. Terrible brushfires in Victoria made the air quality so bad she was unable to leave the house for many days. She has double-glazed windows and two air purifiers inside her house. Smoke from woodfire heaters by a small number of neighbors who warm their homes every winter by burning wood. She writes “This is a leafy inner-city suburb so this kind of heating is not driven by financial needs (unlike the situation say in rural parts of Victoria, where it might make more sense to have a wood fire.)” She thinks it is about the aesthetic pleasure of burning wood for some people. Once or twice she’s nearly called for an ambulance because of the wood smoke near her home. She has been on a walk and turns the corner on a street filled with smoke. She suddenly feels like she is suffocating. She takes out her puffer and hopes she will get home or “be rescued” by her husband if she phones her husband to pick her up. She says the other issue is very localized, or “hyper-localized”. She checks apps on her phone to see the air quality in her area. Often the apps will show “good” or “very good” air quality in her suburb, which is no doubt true near the measuring station. However the air quality can be terrible within a few houses of anyone using a wood heater. She has been lobbying her local Glen Eira council in Melbourne, Australia and she’s pleased they are taking decisive action in asking residents not to use their wood heaters if possible. It’s already made some difference in the last few weeks. Her street has families with babies or elderly people or those with lung and heart conditions. There are others who cannot understand why they are struggling to breathe at night. In the 1970s we realized cigarette smoking leads to cancer. Soon we will come to a similar realization regarding wood smoke. Banning wood heaters immediately doesn’t seem realistic. She would like them to be phased out over time, especially in urban and built-up areas. To speed this up, the Victoria government could offer more incentives for replacement of wood stoves.

6. New Zealand

New Zealand

['I can't breathe': Woman forced to wear gas mask to protect against smoke from neighbour's coal fire](#)

Stuff.co.nz

Burning coal and wood is one of the two main causes of air pollution in the country, according to the Ministry for the Environment, along with ...

RAWSEP View: In New Zealand, burning [coal and wood is one of the two main causes of air pollution in the country](#), according to the Ministry for the Environment, along with traffic emissions.

In July 2022 Amendments to New Zealand laws on air quality in New Zealand are due to be released. The amendments are awaiting new evidence, including a study on health and air pollution, along with updates to World Health Organization (W.H.O.) guidelines on air pollutants. In New Zealand Regional councils have varied rules around coal burning. In some areas of Otago, coal fires are banned, but in other areas they are allowed provided the smoke does not cross a neighbor’s boundary. Coal fires are [being phased out in Southland](#). Older-style burners are being phased out in all clean air zones in Canterbury, and in Christchurch they can no longer be used. The Ministry for the Environment consulted in 2020 on strengthening the national air quality standards two years ago, including extending emissions standards to coal burners. In Westport, New Zealand, a woman has to wear a gas mask because of the pollutants from her neighbor’s coal burning. She has to wear a gas mask to sleep. A Ukrainian-born engineer and her New Zealand teacher husband moved to Westport from Invercargill last year, and began living in a caravan on a section where they plan to build their dream house. That dream was killed when a neighbor began burning a coal fire in May 2022. She said “Our small town is like a gas chamber now. Everywhere in town when you’re doing shopping or just going for walks, you are breathing in toxic smoke,” she said. She said if she doesn’t wear a gas mask, she gets chest pains, a burning throat and a cough when her neighbor comes home from work and lights his fire. The couple were shocked to discover the West Coast has no bylaw controlling the use of coal fires. According to the latest census, only 1.3% of New Zealand homes are heated by coal, but that figure rises to 34.3% on the West Coast. She has reported the effect of coal burning to her doctor. Her husband texted the neighbor to stop, but he did not stop burning coal. Burning [coal and wood is one of the two main causes of air pollution in the country](#), according to the Ministry for the Environment, along with traffic emissions. Contaminants emitted from coal fires can include tiny particles which can cause health problems. A trailer-load of coal on the West Coast costs about \$115, and two loads will typically warm a house for the entire winter. The couple have complained to every local authority and health organization on the West Coast. Her husband said some had asked “don’t you realize this is a coal town?”. Some have laughed that the couple should have done some research before moving to Westport, and suggested they go back to where they came from. They complained to the West Coast

Regional Council, which told them offensive smoke could be considered a nuisance under the Health Act 1956, but that this was the responsibility of the district council. However, a Buller District Council compliance officer said the medical officer of health had advised council that that act was ineffective in dealing with smoke complaints as it was old legislation. "Council is aware that there have been several attempts to use this legislation and they have failed," he said. The couple said they were considering moving and had put a [petition online calling for coal fires to be banned](#). "We as New Zealand residents have the right to breathe clean air. That is what the Clean Air Act states. Why do we not have the same rights as other regions in New Zealand?" Her husband said it was hypocritical of the prime minister to be giving speeches overseas about climate change when she allows coal fires to burn on the West Coast and shipments of coal from Indonesia. New Zealand Climate Change Minister said the Government had a plan to significantly reduce the use of coal and emissions from it, with a commitment to 100% renewable electricity generation by 2030. "We're providing grants to help low-income households shift to cleaner heating and insulation upgrades and ... all [remaining coal boilers in schools will be replaced by 2025](#). Buller mayor said he sympathized with them, but had not received any similar complaints. Coal was a legitimate fuel source and coal fires were a traditional practice on the West Coast, where the fuel was cheap compared to expensive electricity. "I would be loath to see any options taken off people's right to heat their homes ... I don't see home heating, be that coal or wood, being high on the pecking order in terms of impact on climate change," the mayor of Buller said.

7.U.K. (Ireland)

Ireland

[Exposure to outdoor air pollution raises death risk 20% - Irish Examiner](#)

Irish Examiner

Improperly ventilated wood or kerosene stove burning, or living near a busy road, ... such as dust, pollen, soot, smoke, and liquid droplets

RAWSEP View: A turf ban in Ireland is discussed in this article. Not wood burning would be a better solution than changing venting of a wood stove. Improperly ventilated wood or kerosene stove burning, or living near a busy road, dramatically increase the risk of death, a major international study on air pollution has found. Researchers at New York University's Grossman School of Medicine and the Icahn School of Medicine at Mount Sinai found that exposure to above-average levels of outdoor air pollution increased risk of death by 20%, and risk of death from cardiovascular disease by 17%. In Ireland, concerns around air pollution have grown in recent years, with campaigners, including major health bodies, pointing to the 1,400 lives needlessly lost here every year. The culprits include particulate matter, which is all solid and liquid particles suspended in air, such as dust, pollen, soot, smoke, and liquid droplets. The Climate and Health Alliance, which includes members of the Royal College of Surgeons of Ireland, UCC School of Public Health, and the National Children's Hospital Ireland, called on the 'turf ban' to be implemented earlier this year. The 'turf ban' became a political football when it was proposed here earlier this year, with the Environment Minister coming under heavy fire from opponents for the perception of ignoring turf-cutting traditions in rural Ireland.

U.K., Scotland, Renfrewshire (one of 32 council areas of Scotland)

[Renfrewshire streets with highest number of smell complaints revealed | The Gazette](#)

The Renfrewshire Gazette

Stewart Avenue, in Renfrew, was subject to the same number of complaints, the majority of which related to concerns regarding a wood burning stove ...St

RAWSEP View: United Kingdom, Renfrewshire. In total, there were 508 nuisance smell complaints made in Renfrewshire between January 2019 and May 2022, with the most common complaints being smells caused by residential burning and bonfires Stewart Avenue in Renfrew had six smell complaints over 31 months regarding a wood burning stove. Moss Road in the Bridge of Weir had five nuisance smell complaints over 31 months regarding bonfires and chimney smoke. Lilybank Wynd, in Johnstone had four complaints over 31 months related to smells caused by either smoke of burning. Brabloch Crescent, in Paisley, had four complaints each over 31 months relating to smells caused by either smoke or burning. Beechwood Avenue in Langbank had three smell complaints over 31 months for log burning. Main Road in Langbank, three smell complaints over 31 months for bonfires. The data was released following a Freedom of Information request made earlier this year. A bad odor is deemed to be a "statutory nuisance" if it interferes with the

use or enjoyment of a home or other premise, or if it injures health. A Renfrewshire Council spokesperson said they “aim to work with the persons responsible to resolve the issue informally as quickly as possible, and “where this isn’t successful, and a statutory nuisance exists, we serve an abatement notice on the persons responsible.” Renfrewshire Council telephone is 0300 300 0380 and email is e-prot.es@renfrewshire.gov.uk.

U.K.

[Log burner BAN calls as 'harmful' impacts pinpointed 'Like 750 HGV exhausts!' | UK | News](#)

Daily Express

Statistics also show that there are at least 40,000 early deaths a year attributed to wood burning in Europe. The source of the original HGV figure is

RAWSEP View: Statistics also show that there are at least 40,000 early deaths a year attributed to wood burning in Europe.

[Millions of adults regularly suffer symptoms of air pollution - while in their own homes](#)

The Mirror

“Everything from smoking indoors, to wood burning stoves and using cleaning products, can increase the risk. “Indoor pollution worsens symptoms of ...

[Dr Ranj on how to keep air pollution out of your home - Metro](#)

Metro

'Everything from smoking indoors, to wood burning stoves and using cleaning products can increase the risk.' Air pollution can worsen symptoms of

RAWSEP View: A study by the air purifier company Breville U.K. A study of 2,000 adults found 35 percent have worried how air quality in their home could impact their physical health. Of that 35 percent, 32 percent have been sneezing or have allergic reactions while at home, while 26 percent have experienced ongoing fatigue. 46 percent of adults surveyed admitted they had no idea what air pollution even was, while 62 percent considered it to be something that only occurs outside the home. Dr Ranj Singh, working with Breville air purifiers, said: “Daily tasks and our habits can contribute to indoor air pollution, which can also be dangerous. “Everything from smoking indoors, to wood burning stoves and using cleaning products, can increase the risk. “Indoor pollution worsens symptoms of asthma, COPD and bronchiectasis. It has also been linked to an increased risk of heart disease and strokes.” “We can take steps to reduce indoor air pollution, including using household air purifiers.” 24 percent of those polled, via OnePoll, would opt for poor air quality rather than changing their current lifestyle in any way. Dr Ranj Singh added: “The research shows that very few adults own an air purifier, despite how effective they are at eliminating indoor air pollution, reducing pet and pollen allergens, filtering out harmful germs, and removing unpleasant odors from the home environment.” Wood-burning stoves pollute the air we breathe.

U.K.

['Doing it since caveman times!' Fury as Britons told to DITCH log burners after new study](#)

Daily Express

Burning wood or coal pollutes the air inside and outside homes, creating tiny particulates called PM2.5 and PM10 - which can also cause heart and ...

RAWSEP View: A new study on PM 2.5 and residential wood burning or coal burning in the U.K. prompted angry reactions from wood burners. One furious wood burner made the argument that we’ve been “doing it since cavemen times”.

8.Europe

Macedonia

[University of Birmingham: North Macedonia's air pollution tipping point](#)

India Education Diary

... exceeded – in urban areas, Particulate Matter (PM) 2.5 alone was estimated to contribute to 1,709,000 premature deaths between 2015 and 2019.

RAWSEP View: In urban areas, Particulate Matter (PM) 2.5 alone was estimated to contribute to 1,709,000 premature deaths between 2015 and 2019.

[Log burner ban warning as 'harmful' impacts pinpointed: 'Like 750 HGV exhausts!'](#)

Daily Express

Statistics also show that there are at least 40,000 early deaths a year attributed to wood burning in Europe. The source of the original HGV figure is

RAWSEP View: Statistics also show that there are at least 40,000 early deaths a year attributed to wood burning in Europe.

Poland

[Poles look to their forests to ease energy price pain | Reuters](#)

Reuters

In Spain, sales of wood-burning cookers and fireplaces increased by 30% in 2021 and the Spanish Association of Stove Manufacturers expects an even ...

RAWSEP View: Spanish short-sighted sales of wood burning cookers increased 30% in 2021. Short-sighted Poles look to forests for energy.

Macedonia

[North Macedonia's air pollution tipping point: Coalitions for change and windows of opportunity](#)

University of Birmingham

... Particulate Matter (PM) 2.5 alone was estimated to contribute to ... PM air pollution was the eighth largest mortality risk factor in 2016, ...

RAWSEP View: PM air pollution was the eighth largest mortality risk factor in 2016.

9.Africa

No Wood Burning Pollution news this week

10.Asia

China

[Despite Improvements, China's Air Remains Unsafe - Eos.org](#)

Eos.org

Fine particulate matter (PM2.5) and ozone exposure are major public health problems in China. Although useful, atmospheric models used to analyze ...

RAWSEP View: PM 2.5 is a major health problem in China.

[Spatio-temporal distribution of tuberculosis and the effects of environmental factors in China](#)

BMC Infectious Diseases - BioMed Central

Temperature, humidity, precipitation, PM10, PM2.5, O3, NO2 and SO2 have impacts on TB incidence, and in different regions, the environmental ...

[Pathways of China's PM 2.5 air quality 2015-2060 in the context of carbon neutrality.](#)

eScholarship.org

RAWSEP View: The political construct of carbon neutrality for biomass burning conflicts with the reality of accumulation of PM 2.5 air pollution.

India

[Theories about on how the endangered snails ended up in the Tōtara Reserve Regional Park](#)

The Bharat Express News

ALSO READ Study shows link between wood smoke pollution and acute respiratory infections. Mountford-McAuley said the shells found so far were ...

RAWSEP View: Study shows link between wood smoke pollution and acute respiratory infections.

India

[NHRC notice to Environment Ministry on air pollution impacting life expectancy](#)

Devdiscourse

According to a media report on June 15, the residents in Delhi would gain 10 years of life expectancy on average if the annual average PM 2.5 ...

RAWSEP View: Residents in Delhi would gain 10 years of life expectancy on average if the annual average PM 2.5 was lower.

India

[Covid lockdown did not slow down greenhouse gas emissions, methane levels surged](#)

IndiaToday

In a study, they compared the PM 2.5 levels over three years during the months that coincided with each region's lockdown phases but found no

RAWSEP View: Covid 19 lockdown did not reduce 2.5 levels.

[Scientists unpack the influence of black carbon aerosols on rainfall in northeast India](#)

Mongabay-India

Fossil fuel and biomass burning are major sources of black carbon in the ... cylinder but burning wood (biomass) is the preferred cooking method.

RAWSEP View: Burning wood is the preferred cooking method in India but is a major source of black carbon in the air.

India, Delhi

[Delhi air pollution: Entry of medium and heavy vehicles banned from Oct 1 to Feb-end 2023](#)

Republic World

Particulate Matter 2.5 is used to indicate pollutant levels indoors and outdoor. PM is a combination of solid and liquid particles which remain in ...

India

[Air Pollution | Piecemeal interventions will not clear Delhi's upcoming smog - Moneycontrol](#)

Moneycontrol

Every year, the entry of trucks is banned following an increase in levels of PM 2.5/PM 10 or following directions issued by the Commission of Air ...

India

[Improving India's Poor Environmental Performance - The Citizen](#)

The Citizen

According to the report released on June 14, if the concentration of hazardous particulate matter (PM 2.5) in the air of Delhi met the criterion ...

India

[NHRC Issues Notice to Environment Ministry on Reports of 'Air Pollution Impacting Life Expectancy'](#)

Latestly

... carried out on June 15, 2022, the residents in Delhi would gain 10 years of life expectancy on average if the annual average PM 2.5 levels did ...

India

[NHRC issues notice to Department of Environment over reports of 'air pollution impacting life ...](#)

The Bharat Express News

According to media reports, made on June 15, 2022, Delhi residents would gain an average of 10 years of life expectancy if annual average PM 2.5 ...

India, Delhi

[Delhi Entry Ban: No Diesel Commercial Vehicles Allowed to Enter From Oct 2022 to Feb 2023](#)

News18

Although stubble burning plays a major role in pollution, the trucks are responsible for contributing to pollution and increasing PM 2.5/10 in the ...

India, New Delhi

["Air Pollution Poses Threat To Right To Life": Human Rights Commission - NDTV.com](#)

NDTV.com

... 10 years of life expectancy on average if the annual average PM 2.5 levels did not exceed 5 micrograms per cubic metre, as per WHO standards.

RAWSEP View: Air pollution poses a threat to right to life. Life expectancy would improve if there was less PM 2.5.

Iran

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0269650>

RAWSEP View: See also Northeast, New York, Staten Island, and (below) where an article was published publicizing these findings.

New York

[Air pollution study: Living by a major roadway increases your risk of death - silive.com](#)

Staten Island Advance

... low-income communities throughout the United States have been disproportionately affected by fine particulate air pollution, known as PM 2.5.

RAWSEP View: Residential wood burning emissions emit 90% PM 2.5, and are similar to emissions from wildfires.

Residential wood burning emissions are not mentioned in this article. The author of the Staten Island article stated that "Data has shown Staten Island's North Shore, where [underlying conditions are more common](#) and health care inadequacies are more pronounced, has higher levels of PM 2.5 than other areas of the borough." Staten Island, New York publicized an Iran-based study that showed that living by a major roadway increases your risk of death because of PM 2.5 from traffic. This Iran-based study findings, The majority of the people included in the Iranian study, conducted between 2004 and 2008, were from 326 small rural villages in the area, while around one-fifth of the research participants were selected randomly from Gonbad City in Golestan, Iran. The study's authors suggested that their findings could enable health systems to create risk maps based on publicly available data. "For example, a cardiologist in California might screen their patients for risk of exposure to wildfire smoke," said Vedanthan. "Physicians could then recommend key interventions for at-risk patients, such as monitoring local air pollution levels, and staying indoors, wearing a mask, or using indoor air filtration to reduce exposures when pollution levels are elevated."

Sri Lanka

[As global food crisis looms, Sri Lanka offers a cautionary tale - France 24](#)

France 24

Nethmi Rajawasam's dreams for the future appeared to go up in smoke from the firewood stove the family was forced to adopt as the economic crisis ...

RAWSEP View: Like most urban Sri Lankan middle-class families, a Sri Lankan family used cooking on gas cylinders to prepare their meals. But Sri Lanka suffered its worst financial crisis since independence in 1948. The government has been unable to import cooking gas. With no fuel to run generators, an electric stove was not a viable or affordable option. The family reverted to placing a clay wood-burning stove on a tiny cement slab outside their house that now serves as their backyard-meets-kitchen in a suburb of Colombo, the Sri Lankan capital. "Cooking on a wood stove is a tedious task," explained one family member. Her mother has to shoulder most of the cooking load.

Thailand, Bangkok

[Ministry ridiculed over clay stove idea - Bangkok Post](#)

Bangkok Post

... Energy Development and Efficiency promotes use of Tao Maha Setthi or “super” wood-burning stoves as a solution to high cooking gas prices.

[Energy authorities ignite ridicule over 'super' wood-burning stove - Bangkok Post](#)

Bangkok Post

The Department of Alternative Energy Development and Efficiency's promotion of “super” wood-burning stoves as a solution to high cooking gas ...

RAWSEP View: The Tao Maha Setthi, roughly translated as millionaire's wood burning stove was trending on social media after the department under the Ministry of Energy introduced this "super" wood-burning stove as a way to save money amid high cooking gas prices. But the stove was ridiculed on social media. The advertising said “This super stove provides 29% more heat than ordinary stoves. If households shift to use this super stove, Tao Maha Setthi, they could reduce costs by 500-600 baht per household per year and also reduce household use of LPG gas”. "It's slim and light-weight, offers high heat, and uses 30-40% less charcoal than ordinary charcoal stoves," it said. "It emits no smoke or toxic gas from incomplete burning." However, a lecturer in biology and science at Chulalongkorn University argued that super wood-burning stoves did not provide a viable alternative for cooking. The lecturer said he was not convinced that super wood-burning stoves do not emit smoke, as the department claimed, since they still need wood and coal for heating, and people should not use them in poorly-ventilated spaces. Super wood-burning stoves also take more time to heat than gas stoves, and prices for a bag of coal had recently increased from 30 to 35 baht, the lecturer added. The lecturer concluded that gas stoves remained more efficient than "super" as well as normal wood-burning stoves. The Energy Policy Administration Committee (Epac) has decided to gradually raise the price of liquefied petroleum gas (LPG), which is used as household cooking gas, over the next three months.

10.5 Medical and Scientific News about PM 2.5 and Wood Burning

Less PM 2.5 improves air quality but doesn't improve Gestational Blood Pressure

[Gas stoves improve household air quality but may not affect gestational BP - Healio](#)

Healio

The pilot results of the HAPIN trial indicated that cooking with a gas stove was associated with a 92% reduction kitchen PM2.5 levels and a 74% ...

RAWSEP View: Cardiology Today published results of a pilot trial showing that cooking with a gas stove improves home air quality but may not affect gestational blood pressure (BP). RAWSEP View: Use of a gas stove, despite improving household air quality, did not improve gestational blood pressure (BP) in pregnant participants in lower-income countries, and contrarily increased blood pressure (BP) compared with solid fuel burning stoves, researchers reported.

Air Purifiers & Infant Brain Development & PM 2.5

[Air Purifiers At Home Could Protect Infants' Brain Development From High Levels Of Air Pollution](#)

Forbes

High levels of fine particulate matter (PM2.5) in the air can have ... During pregnancy, those who are exposed to PM 2.5 are at an elevated risk ...

Nature magazine & Brain Activation & PM 2.5

How to live longer without wood burning stoves

[How to live longer: Wood burning stoves increase risk of death - Global Circulate](#)

Global Circulate

However, wood and coal burners emit tiny particulate matter – called PM2.5 and PM10 – which can cause a host of serious health issues

[How to live longer: Wood burning stoves increase risk of death | Express.co.uk](#)

Daily Express

Wood and coal burners emit tiny particulate matter – called PM2.5 and PM10 - which can cause a host of serious health issues, such as heart disease

[How to live longer: Wood burning stoves increase risk of death - Verve times](#)

Verve times

However, wood and coal burners emit tiny particulate matter – called PM2.5 and PM10 – which can cause a host of serious health issues, such as heart

PM 2.5

National Resources Defense Council

[EPA's Good Neighbor Plan Will Cut Smog, Save Lives | NRDC](#)

NRDC

The GNP directly addresses ozone and particulate matter (specifically, the smallest size of regulated particles, PM 2.5, that are 2.5 microns and ...

RAWSEP View: NRDC (Natural Resources Defense Council) was founded in 1970 by a group of law students and attorneys at the forefront of the environmental movement. The EPA's Good Neighbor Plan addresses ozone and does not necessarily address wood burning.

American Council on Science and Health

[Ultrafine Particulates Running 'Round My Head - American Council on Science and Health |](#)

American Council on Science and Health |

PM2.5 reflects a range of particulate matter that is smaller than 2.5 microns. For comparison, a human hair is at least 20 times larger, ...

Cardiology Today

RAWSEP View: Discussion about PM 2.5 health effects.

PM 2.5 & Green Space

[Residential green space and air pollution are associated with brain activation in a social ...](#)

Nature

PM2.5 and PM10 showed negative associations with GS buffers ≥ 1500 m ($-0.74 < r < -0.47$, all $p \leq 0.005$, Bonferroni-corrected) (Table S6).

RAWSEP View: The study hypothesized that **stress-related brain activation in regions important for emotion regulation** were associated positively with green space and associated negatively with air pollution and noise pollution. A higher percentage of green space was associated with stronger parietal and

PM 2.5 & Pediatric Allergy and Immunology

[Prenatal, postnatal exposure to air pollution increases risk for asthma, wheeze - Healio](#)

Healio

Median concentrations of fine particulate matter at the 2.5 μm scale (PM2.5) totaled 31.9 $\mu\text{g}/\text{m}^3$ during pregnancy and 31.1 $\mu\text{g}/\text{m}^3$ during childhood.

RAWSEP View: High levels of exposure to fine particulate matter during specific prenatal and postnatal developmental windows may increase the risk for childhood asthma and wheezing, according to a study published in Pediatric Allergy and Immunology.

Pulmonology Advisor

[Air Pollution Exposure Linked to Premature Mortality Risk in Many Conditions](#)

Pulmonology Advisor

Long-term exposure to pollutants — black carbon (BC), nitrogen dioxide (NO₂), and/or fine particulate matter (PM_{2.5}) — was associated with death ...

RAWSEP View: Long term exposure to PM 2.5 was associated with death.

[Why Air Pollution Is Cutting Years Off Our Lives, With Christa Hasenkopf And Anant Sudarshan](#)

University of Chicago News

Christa Hasenkopf: Particulate matter is just stuff floating in the air. ... Christa Hasenkopf: When we say PM 2.5, that's particles that are 2.5 ...

PM 2.5 & Stroke Risk

[Particulate Pollution Increases Stroke Risk | Newsmax.com](#)

Newsmax

They come from on- and off-road vehicle exhausts, burning wood, heating oil or coal, and forest and grass fires. Indoor sources include tobacco smoke ...

Popular Mechanics & Fractal Wood Burning

[People Keep Dying Rigging Microwave Transformers Into DIY Wood-Burning Machines](#)

Popular Mechanics

A craft hack for “fractal wood burning” is killing American DIYers. It's an amateur rig made of a powerful microwave transformer turned into a ..

[Why Homemade Fractal Wood Burning Machines Are Dangerous - Popular Mechanics](#)

Popular Mechanics

People Keep Dying Rigging Microwave Transformers Into DIY Wood-Burning Machines. We spoke with an electrical engineer about the dangers of

11.The Future