

Episode 56YK 09 30 2024 The EPA responds to a 2023 residential wood stove PM2.5 safe level lawsuit

In Episode 56YK 1 United States 1A EPA Will Review Wood Stove Emissions Rules To Settle Lawsuit 1B U.S. House passes bill that blocks Environmental Protection Agency EPA standards to reduce carbon emissions. 2 California 3 Colorado 4 Connecticut 5 Florida 6 Iowa 7 Kentucky 8 Maine 9 Maryland 10 Minnesota 11 Missouri 12 New Mexico 13 Ohio 14 Virginia 15 West Virginia 16 Canada 17 Australia 18 New Zealand 19 United Kingdom 20 Europe 21 Denmark 22 Greece 23 India 24 Malaysia 25 PurpleAir Map Update. Main Content. 1A and 1B We begin this Episode 56YK with the United States Environmental Protection Agency EPA response to a 1 year old Democratic State Assistant Attorney Generals lawsuit and a new bill passed by Republicans in the United States House of Representatives that blocks Environmental Protection Agency EPA standards to reduce carbon emissions. The first update 1A United States. EPA Will Review Wood Stove Emissions Rules To Settle Lawsuit. Law360. The U.S. Environmental Protection Agency agreed to revisit its PM2.5 emissions standards for residential woodburning stoves resolving 10 states' District of Columbia. D.C. [RAWSEP View](#). The Environmental Protection Agency of the United States Biden Administration responded to a lawsuit brought by 10 Democratic State Assistant Attorney Generals in August 2023. On September 27 2024 the EPA responded by agreeing to revisit the EPA's emission standards for residential wood burning stoves. The 10 Assistant Attorney Generals wished for the EPA to improve their emission standards every 5 years. RAWSEPresidents editor asked that near neighbors of indoor residential wood stoves whose PM2.5 emissions enter the yards of near neighbors and sicken them also respond by writing letters to the 10 Democratic State Attorney Generals asking them to broaden their request to the EPA and ask the EPA to consider the adverse health effects of indoor residential wood burning stove emissions entering the yards of near neighbors and sickening the near neighbors. RAWSEPresidents believe that indoor residential wood burning can be replaced by Heat Pumps that in 2024 work down to 40 degrees below zero also operate as air conditioners and lower monthly heating bills immediately. In 2024 the alternative is here and must be used to protect human health and to incrementally slow climate change. There is no need to burn wood indoors residentially. Electricity has been available even in rural areas across the United States at least since the end of the second world war over 75 years ago. Electricity to all rural areas is also being enhanced in 2024 by the Biden Administration's pledge of 7.3 million dollars to improve rural electrification through rural power cooperatives. There is an example of using one solution Heat Pumps for indoor residential home heating rather than indoor residential wood burning a solution in search of a need and a solution for home heating that creates more health problems than it solves. The difference is that indoor residential wood burning has no positive effect to weigh against wood burning's adverse health effects since there are clean cheaper and less logistically complicated methods of home heating notably Heat Pumps that ideally would be power from an electrical grid that reaches all rural areas powered by the truly clean renewable energy of wind and solar and geothermal in 2024. On the other hand in the 1990s the AIDS drugs were somewhat effective in protecting human health but one somewhat effective drug had the side effect of blindness for which an additional AIDS drug was needed to fight the side effect of blindness. Dr. Anthony Fauci brought up the idea of parallel track to deal humanely by asking the FDA to allow the use of the drug against blindness to counteract the side effects of an otherwise helpful AIDS drug and that Fauci idea of a parallel track is mentioned in both letters. If the EPA cannot immediately dismantle the certification of wood stoves as safe when all indoor residential wood burning is unsafe at least the EPA can face reality and when gradually phasing out legal use of indoor residential wood burning promote and aid in disbursement of Heat Pumps as the logical low cost and effective substitute for home heating across the United States whether in rural or urban areas. Don't replace wood burning with wood burning because that only perpetuates the air pollution the upward trajectory of health care for those exposed to wood smoke and the upward trajectory of climate change caused by the very real emissions of PM2.5 and CO2 from wood burning emissions. [RAWSEP View](#). 1A A letter was sent by RAWSEPresidents to the 10 Assistant Attorney Generals and to three others and put on the website as Episode 56HS at

| | Add Data Layer | US EPA < PM2.5 (AQI) | Indice de Aire y Salud PM2.5 | Australian PM2.5 (AQI) | Canadian PM2.5 (AQHI) | Chinese PM2.5 (AQI) | European PM2.5 (AQI) | India PM2.5 (NAQI) | Indonesia PM2.5 (ISPU) | New South Wales PM2.5 | Tasmanian PM2.5 Scale (µg/m³) | UK PM2.5 Daily Air Quality Index | Location Type |
|-------------------------------|----------------|----------------------|------------------------------|------------------------|-----------------------|---------------------|----------------------|--------------------|------------------------|-----------------------|-------------------------------|----------------------------------|---------------|
| Ethiopia | 1 | 258 | 208 | 831 | 21 | 258 | 208 | 368 | 258 | 208 | 208 | 10 | OUT |
| Ethiopia (inside) | 2 | 197 | 146 | 582 | 15 | 194 | 146 | 320 | 195 | 146 | 146 | 10 | IN |
| Afghanistan | 3 | 166 | 84 | 337 | 9 | 112 | 84 | 181 | 131 | 84 | 84 | 10 | OUT |
| Vietnam | 4 | 155 | 64 | 256 | 7 | 87 | 64 | 115 | 110 | 64 | 64 | 8 | OUT |
| Zambia | 5 | 145 | 53 | 212 | 6 | 73 | 53 | 89 | 97 | 53 | 53 | 6 | OUT |
| Gabon | 6 | 142 | 52 | 208 | 6 | 72 | 52 | 87 | 96 | 52 | 52 | 6 | OUT |
| Uganda | 7 | 135 | 50 | 198 | 5 | 69 | 50 | 83 | 93 | 50 | 50 | 6 | OUT |
| Pakistan | 8 | 114 | 41 | 162 | 5 | 58 | 41 | 68 | 82 | 41 | 41 | 4 | OUT |
| United Arab Emirates (inside) | 9 | 112 | 40 | 160 | 5 | 57 | 40 | 67 | 81 | 40 | 40 | 4 | IN |

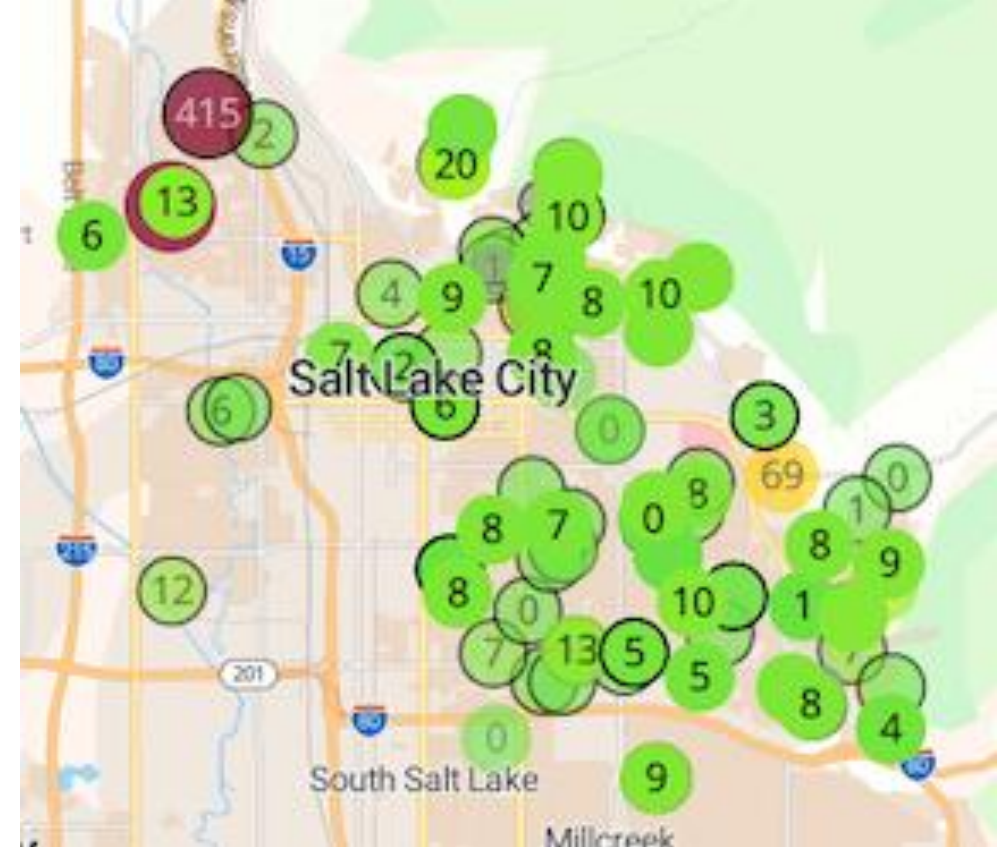
<https://rawsepresidents.com/1pleaseattachpdflettertoniaiddirectordrjeannemarrazzoanemailfromyoutojeannemarrazzoni@gov/>

Episode 56HS August 22 2023. Dear 1 of 13 Assistant Attorney Generals Attached is a letter to the Director of NIAID. Dear Assistant Attorney General Attached is a letter I sent to National Institute of Allergy and Infectious Diseases NIAID Director Dr. Jeanne Marrazzo former acting NIAID Director Dr. Hugh Auchincloss and National Institutes of Health NIH Director Dr. Lawrence Tabak regarding regulation and potential shutdown of PM2.5 polluting indoor residential wood burners. The letter asks Dr. Jeanne Marrazzo to apply a Parallel Track in 2023 to indoor residential wood burning pollution allowing a Parallel Track of both EPA wood stove certification which is known to be ineffective in controlling PM2.5 pollution which is known to cause antibiotic resistance which makes pandemics of infectious disease more likely and uncontrollable alongside a complaint based system based on PurpleAir PM2.5 monitor data from the yards of near neighbors of indoor residential wood burners. Dr. Anthony Fauci Dr. Jeanne Marrazzo's predecessor at NIAID in 1989 allowed a Parallel Track of both Food and Drug Administration FDA use of AZT following Clinical Trials rules of use of that one AIDS drug

which had a side effect of blindness alongside allowing use of a second drug during a clinical trial Ganciclovir which cured the blindness that was a side effect of AZT. I previously sent you a letter asking for you to include in your suit against the EPA a suit that will commence if the EPA does not reply by 8/24/2023 an ask for a complaint based system of regulating indoor residential wood burning using data from PurpleAir PM2.5 monitors in the yards of near neighbors who complain of PM2.5 from hyperlocalized indoor residential wood burners even and especially those indoor residential wood burners which are already ineffectually certified by the EPA that violate the EPA's own National Ambient Air Quality Standards NAAQS emission limits of 35 micrograms per cubic meter in a 24 hour period. Currently if a near neighbor's complaint is made to a local health department a complaint using federal NAAQS exceedance data is not considered as a basis for a complaint against neighboring indoor residential wood burning nor a basis for shutting down the wood burning appliance if the indoor residential wood stove is federally EPA certified. Lawsuits for nuisance are expensive and beyond the means of the average American and not considered precedents in courts generally. Contacting state agencies or other means of shutting down polluting wood stove use affecting the health and lives of near neighbors are not effective because decisions made by the EPA affect the decisions of state agencies. Although the scope of your lawsuit seems confined to asking the EPA to continue their wood stove certification program as is only at a faster pace consider the intent that should be behind asking the EPA to tighten their standards for wood stove certification on a regular basis. The intent of an Environmental Protection Agency is to protect the environment perhaps narrowly construed to be protecting air water and ground from contamination from industries. But people who live in the United States should actually benefit from the environment being protected even if getting the EPA to act quickly to continue as they have been acting only incrementally changing is the narrow aim of this lawsuit. Tightening wood stove standards on a regular basis should have the result of protecting the environment as well as protecting the people of the United States from harm from the air water and ground if contaminated and protect the world from hastening of climate change. That is a broad scope but by contacting NIAID I am pointing out that the EPA's responsibilities are intertwined with public health responsibilities of other government agencies such as NIAID. Please try to accomplish something for the American people with this lawsuit as well as keeping our air water and ground theoretically pristine. As a state administrator you may think that taking a narrow focus I am not your constituent but by commencing to sue a federal agency you are representing me as a citizen of the United States and as your constituent. Thank you Sent to cody.doig@alaska.gov Alaska Senior Assistant Attorney General Cody Doig Jason.james@ilag.gov Illinois Assistant Attorney General Jason James Sgoldstein@oag.state.md.us Maryland Special Assistant Attorney General Steven Goldstein Turner.Smith@mass.gov Massachusetts Assistant Attorney General Turner Smith Peter.Surdo@ag.state.mn.us Minnesota Special Assistant Attorney General Peter Surdo Lisa.Morelli@law.njoag.gov New Jersey Deputy Attorney General Lisa Morelli Nicholas.Buttino@ag.ny.gov New York Assistant Attorney General Nicholas Buttino Paul.Garrahan@doj.state.or.us Oregon

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|--|----------------|--------------------|------------------------------|------------------------|-----------------------|---------------------|----------------------|--------------------|------------------------|-----------------------|-------------------------------|----------------------------------|---------------|---|
| | | US EPA PM2.5 (AQI) | Indice de Aire y Salud PM2.5 | Australian PM2.5 (AQI) | Canadian PM2.5 (AQHI) | Chinese PM2.5 (AQI) | European PM2.5 (AQI) | India PM2.5 (NAQI) | Indonesia PM2.5 (ISPU) | New South Wales PM2.5 | Tasmanian PM2.5 Scale (µg/m³) | UK PM2.5 Daily Air Quality Index | Location Type | X |
|  Burkina Faso | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | OUT | |
|  Luxembourg | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | OUT | |
|  Madawaska Parish | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | OUT | |
|  Norway | 4 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | OUT | |
|  Armenia (inside) | 5 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | IN | |
|  Austria (inside) | 6 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | IN | |
|  Iceland | 7 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | OUT | |
|  Montserrat | 8 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | OUT | |
|  Belgium | 9 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | OUT | |

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RAWSEP Presidents sent to Dr. Jeanne Marrazzo who took the place of Dr. Anthony Fauci at the National Institute of Allergy and
Infectious Diseases in 2024 sums up RAWSEP Presidents View. That letter is found on the RAWSEP Presidents website in the same month
of August 2023 when the lawsuit began. The Letter to Jeanne Marrazzo is also found at
<https://rawsepresidents.com/1pleaseattachpdflettertoniaiddirector/drjeannemarrazzotoanemailfromyoutojeannemarrazzonihgov/>
Dear Director of the National Institute of Allergy and Infectious Diseases NIAID Dr. Jeanne M. Marrazzo former Acting Director of NIAID
Hugh Auchincloss Jr. M.D. and Director of the National Institutes of Health NIH Lawrence A. Tabak Jeanne.marrazzo@nih.gov
hugh.auchincloss@nih.gov lawrence.tabak@nih.gov Wood burning emits 90% PM2.5 particulate matter of 2.5 micrometer size
the perfect size to infiltrate the human lung setting off a cascade of human health problems and early deaths. Very recently research has
been published showing that PM2.5 causes antibiotic resistance. Residents Against Wood Smoke Emission Particulates
<https://RAWSEPresidents.wordpress.com> as near neighbors of indoor residential wood burners whose PM2.5 pollution enters our
yards and infiltrates our homes would like to stop the PM2.5 pollution from indoor residential wood burning. Wood burning emits more
CO2 and PM2.5 than the fossil fuel coal burning. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. The list
of adverse human health effects of wood burning PM2.5 emissions includes lung cancer asthma heart attacks and the most recent
finding antibiotic resistance. This means that if you get an infectious disease like a viral infection such as AIDS or COVID 19 and there
are antibiotics to help you get over the infection they will be less effective if at the same time you are inhaling PM2.5 from wood burning
emissions. Dr. Anthony Fauci your predecessor as Director of NIAID in 1989 introduced the concept of AIDS treatment Parallel Track
allowing multiple U S Federal Government Agencies the Food and Drug Administration FDA and NIAID to both follow most rules of FDA
Clinical trials of the AIDS drug AZT and to allow a Parallel Track of use of the AIDS drug ganciclovir to treat the AZT side effect which was
progressive blindness in some cases of AIDS combined with AZT Clinical Trial treatment. This is a request that in 2023 the NIAID in its
mission to combat antibiotic resistance introduce the concept of Parallel Track of Environmental Protection Agency EPA certification of
indoor residential wood stoves along with the use of PurpleAir PM2.5 monitors* placed in the yards of near neighbors of indoor
residential wood burners in order to combat the antibiotic resistance of PM2.5. Near neighbors have often already incurred the
economic cost of purchasing the low cost laser PurpleAir PM2.5 monitors whose data appears on PurpleAir Maps as well as on U S EPA
AirNow Maps of Smoke and Fire alongside \$100000 EPA monitors correlated to the EPA monitors with a simple mathematical formula*
which in Wisconsin is $PA * 0.5140 + 1.8304$ for 24 hour 1660 minute average of $PM_{2.5_CF1_ug/m^3}$. \$100000 EPA PM2.5 monitors
separate gravel density and wood density PM2.5 weigh each and deliver results to the U S EPA maps of Smoke and Fire in one hour.
PurpleAir PM2.5 monitors use lasers to count the PM2.5 particles that pass in front of the monitor and deliver results in 10 minute
intervals. If a PM2.5 monitor is hyper localized and near enough to the stack of the indoor residential wood burner in the yard of a near
neighbor to pinpoint the source of the PM2.5 that data could serve as scientific evidence to show that National Ambient Air Quality
Standards NAAQS limit is exceeded for the PM2.5 average in a 24 hour period of 35 micrograms per cubic meter or the limit of 12
annually is exceeded. If that NAAQS limit is exceeded by use of an indoor residential wood burner that wood burner should be shut
down in the interest of public health because it is causing increased antibiotic resistance at a time when the general public needs
antibiotics to deal with widespread viral airborne diseases such as COVID 19 as well as viral diseases that could respond to antibiotic
treatment such as AIDS under certain conditions. The Parallel Track would retain 2020 EPA New



Source Performance Standards NSPS safe limit for indoor residential wood stoves of 2 grams per hour burning cord wood the most common wood used by indoor residential wood burners. The Parallel Track would retain 2023 EPA National Ambient Air Quality Standards NAAQS 24 hour hourly average safe limit for PM2.5 of 35 micrograms per cubic meter or 12 annually. The Parallel Track could add the requirement nationwide of a complaint based system in which near neighbors of indoor residential wood burners concerned about their health could request that the government with funds from NIAID give them a free \$249 PM2.5 PurpleAir monitor if they complained to their local health department of PM2.5 from an indoor residential wood burner entering the near neighbor's yard and infiltrating their home. The Parallel Track could add the requirement that the local health department could shut down an indoor residential wood burner which hyperlocalized data shows is the source of the PM2.5 exceeding NAAQS standards. In a recent letter the EPA has indicated to the 10 U S State Assistant Attorney Generals threatening to sue the EPA by 8/24/2023 if the EPA does not make changes to PM2.5 NAAQS probably lowering PM2.5 NAAQS limits given current scientific knowledge of harm from PM2.5 in 2023 as required by the 8 year rule last changes were made in 2015 8 years ago EPA's probable response by 8/24/2023. The EPA indicated that many of the changes requested by the 10 Assistant Attorney Generals can only be made by 2027. The February 2023 OIG Office of the Inspector General watchdog of the EPA report stating indoor residential wood stove certification was flawed by lobbying of the wood stove industry resulting in loopholes that make most indoor wood stoves not actually meet EPA's lax certification standards making cord wood burned in indoor residential wood stoves at 2 grams per hour emissions an unmet standard in certified indoor residential wood stoves sold in the past and up to 2023. In summary a 2023 Parallel Track would involve the NIAID handing out PurpleAir PM2.5 monitors to any near neighbors of indoor residential wood burners who complain to their health departments of PM2.5 emissions from wood burning entering their yards and infiltrating their homes in order to regulate indoor residential wood burning and shut down indoor residential wood burning that violates EPA NAAQS safe limits for PM2.5 and to concurrently address NIAID's responsibility to prevent antibiotic resistance caused by PM2.5 pollution from indoor residential wood burning emissions of PM2.5 above safe limits. The 2nd Parallel of the Parallel would involve the EPA continuing to certify as safe indoor residential wood stoves as they have since 1988 when perhaps the polluting effects of wood burning were not yet fully known. Wood burning has the advantage over cigarette smoking that indoor residential wood burning is not physically addictive as the nicotine in cigarettes is addictive. Now that alternatives to indoor residential wood burning are plentiful and cheap since the cost of wind and solar energy is going down every day and the Inflation Reduction Act provides subsidies for Heat Pumps that work at temperatures down to 40 degrees below zero Fahrenheit and Heat Pumps can also work as Air Conditioners and are so efficient that they lower monthly heating bills this regulation and shutdown of polluting wood stoves that cause adverse health effects and early deaths and also cause antibiotic resistance should not be unduly burdensome to homeowners seeking to heat their homes. Slowing climate change is not within the scope of the NIAID's duties although stopping wood burning emissions would also slow climate change. Thank you * Having a Particulate Monitor makes a difference because months of PM 2.5 data can be seen to be undeniable. The data a PurpleAir PM2.5 monitor in Wisconsin collects can be matched to the standard of the data of official Environmental Protection Agency EPA data collected by their own PM2.5 \$100000 Air Quality Monitors by a simple mathematical formula. Conversion factor PA * 0.5140 +1.8304. The conversion factor means Purpleair Monitor 24 hour 1660 minute average of PM 2.5_CF1_ug/m3 times 0.5140 plus 1.8304. If the result is over 12 it exceeds EPA limits for Particulate Pollution annually or if over 35 exceeds the daily limit. In the case of factory emissions and wildfires PurpleAir PM2.5 data on U S EPA AirNow Maps of Smoke and Fire already signifies and signals to the general public a threat to public health. 12 micrograms per cubic meter annual level PM 2.5 is when people are warned to exercise indoors rather than outdoors since PM 2.5 is the perfect size to infiltrate the human lung. 12 PM2.5 air is the point established at which the air diminishes life instead of sustaining life. The National Ambient Air Quality Standard. 1 United States. From the article. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against**



Wood Smoke Emission Particulates a 501c3 nonprofit organization. States EPA Settle Wood Stove Emissions Row. Law360. RAWSEP View. The U.S. Environmental Protection Agency agreed to revisit its emissions standards for residential woodburning stoves resolving 10 states' D.C. federal court lawsuit accusing the EPA of slacking on its obligation to do so. Law360 September 27 2024. The U.S. Environmental Protection Agency agreed to revisit its emissions standards for residential woodburning stoves resolving 10 states' D.C. federal court lawsuit accusing it of slacking on its obligation to do so. 2 United States. U.S. House passes bill to block EPA standards to reduce carbon emissions. **RAWSEP View.** In this 2nd legal update in this Episode 56HK the players in this legislation are Republican representatives rather than as in the first legal update Democratic State Assistant Attorney Generals. Apparently the Republican representatives in the United States House of Representatives are up in arms about PM2.5 emission standards in April 2024 being lowered by the Environmental Protection Agency EPA from 12 micrograms per cubic meter annually to 9 micrograms per cubic meter annually. PM2.5 is particulate matter of 2.5 micrometer size the perfect size to infiltrate the human lung setting off a cascade of human health problems and early deaths. PM2.5 emissions come from indoor residential wood burning biomass wood burning plants and from gas powered automobiles among many other industrial sources. The Republican representatives argument for making the existing safe PM2.5 level higher is that lowering the safe limit will inhibit polluting industries from taking maximum profits from manufacturing if they have to install safety measures at their plants or manufacture cars with lower PM2.5 emissions that is to say manufacture more electric cars. This is the old argument of industry cost over human health. Industry costs versus the cost of increased healthcare for human beings who will predictably experience more cancer asthma and early death is not an issue for the Republican representatives that passed this recent bill. From the article. United States. U.S. House passes bill to block EPA standards to reduce carbon emissions. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization.** September 26 2024. Announcements Legal The U.S. House of Representatives passed legislation recently that blocks Environmental Protection Agency EPA standards to reduce carbon emissions. H.J. Res. 136 passed Sept. 20 with a 215191 vote that included eight Democrats voting in favor. It was received by the Senate where it was referred to the Committee on Environment and Public Works. The Executive Office of the President released a statement following the passage of the bill that stated the Biden administration strongly opposes H.J. 136. It states Biden will veto the bill if it passes the Senate. A U.S. Republican Representative introduced the bill in May to block the Biden administration's electric vehicle EV mandates. The EPA released the new standards to reduce carbon emission in April. The plan doesn't require manufacturers to produce EVs to meet the standards but it is likely the easiest way for them to meet the standards that start in 2027. A press release says The Biden Harris Administration's EPA tailpipe emission rule is another out of touch regulation that will crater the Michigan auto industry. Human Beings simply can't afford to spend an additional \$12000 on an electric vehicle. However the press release from the Biden administration says disapproval of the EPA standards would generate uncertainty for the U.S. auto market and supply chains. The Biden press release says this would create a risk for more than 250000 auto jobs added and more than \$177 billion of private sector investments in the industry announced since 2021. Passage of H.J. Res. 136 would also artificially constrain consumer vehicle choice weaken U.S. manufacturing and energy security and harm public health the Biden news release says. Biden's release also adds that the U.S. automakers and autoworkers support the EPA rule and disapproval would jeopardize development in a critical technology sector. It adds that global competitors such as China would benefit from the U.S. slowing down development on EVs and batteries. The Automotive Service Association ASA praised the House for its passage of the resolution via a press release Tuesday. The National Federation of Independent Business NFIB also said it commends lawmakers for the passage of the bill. 1C Other United States news. Alphabetical. United States. AHRI Gets U.S. Funding to Study Higher R290 Charge for Residential Heat Pumps. Natural Refrigerants. The DOE earmarked \$2.5 million to evaluate an ASHRAE proposal to raise the charge limit of R290 for outdoor



heat pumps in the U.S. to 4.9kg. United States. Best Home Warranty for Furnaces in 2024 USA Today. Heat pump vs. gas furnace Which is better for you? United States. Commercial HVAC Market to Grow by USD 25.3 Million from 2024 to 2028 Driven by. Yahoo Finance. 2.1 Heat pump. 2.2 Furnaces. 2.3 Boilers. 2.4 Unitary heaters Energy saving systems like underfloor heating and heat pumps are popular choices. United States. Five ways to protect yourself from smoky air. Yahoo. Avoid anything that can increase the number of small particles in the air including smoking using gas propane or woodburning stoves and furnaces. 4 Wear a respirator. Masks. United States. The government is offering 'every American household' \$8000 for home energy upgrades. MSN. Appliances and home upgrades that qualify for the rebates include clothes dryers heat pumps induction cooktops ventilation systems insulation and. This government program wants to give you up to \$14k for home energy upgrades MSN. The rebate program can help you keep The Inflation Reduction Act put solar power and a heat pump water heater in reach of our household. Window heat pumps The future of heating small apartments. MSN. The introduction of heat pumps in residential buildings is undoubtedly one of the biggest challenges facing the heating equipment market. United States. What to Watch for at the 2024 Housing Innovation Awards September 2024 Newsletter. Department of Energy. Each uses heat pump technology for both space and water heating Monitoring energy use for heat pumps both space and water heating. 2 California San Francisco. A San Francisco family had a \$4000 annual PG&E bill. Here's how they slashed it to \$2600. San Francisco Chronicle. She and her husband took on two major home improvement projects installing insulation and a heat pump water heater in place of an older gas model. 3 Colorado. Salida Ranger District plans prescribed fire projects for fall. Heart of the Rockies Radio. For more information visit <https://www.colorado.gov/cdphe/woodsmokeandhealth>. Fire personnel will monitor the burn units until the fire is. 4 Connecticut. Fire Marshal 'Fire Prevention Week' Starts Oct. 6 NewCanaanite.com smoke alarms in the home. If your home has a fuel burning appliance attached garage or a wood burning fireplace carbon monoxide detectors should. 5 Florida. Recovery efforts underway in Pasco County. WFLA. I think I just went numb because I just remodeled everything just ordered a new wood fire brick oven for pizza now it's a total loss he said. 6 Iowa. Delaware County under open burning ban Tristate News telegraphherald.com Telegraph Herald. Manchester Iowa. Delaware County is under an open burning ban. The ban was ordered by proclamation of Iowa State Fire Marshal Dan Wood. Delaware. 7 Kentucky. Just because there's smoke doesn't mean it's a fire. [RAWSEP View](#). Just because it is smoke you can call the fire department whether or not in Kentucky a fire is called a fire or whether or not in Kentucky smoke is called smoke. [RAWSEP View](#). Solid fuel burning PM2.5 air pollution is solid fuel burning PM2.5 air pollution. From the article. Hop town Chronicle. smoke billowing from the vents of tobacco barns A tobacco barn has tobacco in it could be wood or metal they're going to burn pretty quick. **Just because there's smoke, doesn't mean it's a fire.** Most Western Kentuckians know that smoke rising from the vents of a tobacco barn isn't a cause for alarm. But newcomers will sometimes call 911 to report trouble. September 27, 2024. MURRAY, Kentucky. The curing season for dark-fired tobacco runs from late August through September, and while western Kentucky residents may be used to seeing smoke billowing from the vents of tobacco barns at this time of year, those who are not accustomed to such sights oftentimes think the building is on fire. We get a lot of people from the north and the west that come in and visit our county, which is absolutely great said the Calloway County 911 Communications Center Director. However, they don't know what a tobacco barn is. So, they see one, and they call 911, which is fine to an extent; but we get about several calls a year that there's a barn on fire, and it's not. It's smoking and doing what it's supposed to do, but people think that it is on fire. 8 Maine Portland. A green jobs program touted high wages. Some trainees feel misled. The Portland Press Herald. Heat pumps outsold gas furnaces in 2022 and 2023 job growth in the solar industry is strong and the number of public EV chargers around the US is. Maine Standish. Climate Impacts Put Insurance Commissioner Races in the Spotlight. Inside Climate News. A heat pump is installed at a home in Standish Maine. 9 Maryland. This 3775yearold log may hold the secret to slowing climate change Washington Post. burning coal and other fossil fuels. But much of that carbon Under the right conditions tons of wood could be buried

| | | Add Data Layer | X | X | X | X | X | X | X | X | X | X | X | X |
|--|-------------------------------|----------------|----------------------|------------------------------|------------------------|------------------------|---------------------|----------------------|--------------------|------------------------|-----------------------|-------------------------------|----------------------------------|---------------|
| | | | US EPA < PM2.5 (AQI) | Indice de Aire y Salud PM2.5 | Australian PM2.5 (AQI) | Canadian PM2.5 (AQHI+) | Chinese PM2.5 (AQI) | European PM2.5 (AQI) | India PM2.5 (NAQI) | Indonesia PM2.5 (ISPU) | New South Wales PM2.5 | Tasmanian PM2.5 Scale (µg/m³) | UK PM2.5 Daily Air Quality Index | Location Type |
| | Ethiopia | 1 | 258 | 208 | 831 | 21 | 258 | 208 | 368 | 258 | 208 | 208 | 10 | OUT |
| | Ethiopia (inside) | 2 | 197 | 146 | 582 | 15 | 194 | 146 | 320 | 195 | 146 | 146 | 10 | IN |
| | Afghanistan | 3 | 166 | 84 | 337 | 9 | 112 | 84 | 181 | 131 | 84 | 84 | 10 | OUT |
| | Vietnam | 4 | 155 | 64 | 256 | 7 | 87 | 64 | 115 | 110 | 64 | 64 | 8 | OUT |
| | Zambia | 5 | 145 | 53 | 212 | 6 | 73 | 53 | 89 | 97 | 53 | 53 | 6 | OUT |
| | Gabon | 6 | 142 | 52 | 208 | 6 | 72 | 52 | 87 | 96 | 52 | 52 | 6 | OUT |
| | Uganda | 7 | 135 | 50 | 198 | 5 | 69 | 50 | 83 | 93 | 50 | 50 | 6 | OUT |
| | Pakistan | 8 | 114 | 41 | 162 | 5 | 58 | 41 | 68 | 82 | 41 | 41 | 4 | OUT |
| | United Arab Emirates (inside) | 9 | 112 | 40 | 160 | 5 | 57 | 40 | 67 | 81 | 40 | 40 | 4 | IN |

underground in wood. 10 Minnesota. Canadian wildfire smoke prompts air quality alert in north central MN, MSN. To help reduce the number of harmful particles in the air MPCA recommends limiting activities like outdoor burning and use of woodburning stoves at. Minnesota. Sorted by Publisher. B Brainerd Dispatch. Burning biomass trash could be 'carbon free' in Minnesota regulators say. In Forum. Brainerd Dispatch. wood or paper products but could also include burning the byproducts of wastewater treatment and trash reduces greenhouse gases compared to other. D Duluth News Tribune. Burning biomass trash could be 'carbon free' in Minnesota regulators say. Duluth News Tribune. Whether burned for energy or left in the forest to decompose wood waste releases carbon dioxide. Supporters say it should be exempt from a law. E Energy News Network. Trash wood burning could be considered 'carbon free' in Minnesota. Energy News Network. EMISSIONS Minnesota regulators leave open the possibility that burning wood or trash for electricity could qualify as carbon free depending on. S Sahan Journal. Minnesota regulators delay ruling defining what carbon free means Sahan Journal. Sahan Journal. wood biomass plants which burn wood and paper scraps to This is the direction it's going it's making trash burning and wood burning. S Star Tribune. Burning wood and trash might qualify as carbon free under 2040 climate law Minnesota Star Tribune. Burning wood and trash might qualify as carbon free under 2040 climate law The state Public Utilities Commission weighed. Minnesota regulators on Thursday said burning wood or trash to generate electricity could be considered carbon free under the state's landmark. 11 Missouri. Restricted burn order in effect for Cape Girardeau County. seMissourian. burning until the fire danger decreased according to the order. Field fires for agricultural purposes and wood lot fires are prohibited Cape. 12 New Mexico. September 27 2024 Smoke Information City of Albuquerque. Wood Burning · Contact Us · Events · News · September 27 2024 Smoke Information · Non Employment Discrimination. 13 Ohio burn ban expands to more counties amid drought. MSN. 9 Reasons You Should Avoid a Wood Burning Fireplace. AZ Animals US. 37. 14 Virginia. Openair burning can resume in Virginia soon as summer ban expires. WRIC ABC 8News. Open burning/permitted burning does not excuse you from consequences The pile must only contain clean wood or firewood to be used as fuel. 15 West Virginia. 'Do something here!' Help coming for WV home energy bills through rebate programs. Charleston Gazette. Federal support for Form Energy adds to company momentum toward batteries that last. Heat pump water heater \$1750 Heat pump for space heating or. 16 Canada Alberta Cochrane. Letter to the Editor. Right to be Cool. Cochrane Eagle. Heat pumps can save lives by providing lifesaving air conditioning during heatwaves. A Universal Heat Pump Program available to both homeowners. Canada Ontario and Minnesota. Reckless campfires blamed for BWCAW blaze on Saganaga Lake Star Tribune. Another wildfire on Wood Lake is 50% contained. That 27acre fire northeast of Ely was discovered Sept. 10. Human activity also is suspected the. 17 Australia Tasmania. Fuel Reduction Burn. ABC Emergency ABC. Smoke may persist some days afterward depending on wind conditions. Wood heaters woodfires and bushfires. Current air quality information is. 18 New Zealand. PM₁₀ concentrations air quality Data to 2023 Stats NZ. PM2.5 that are smaller than 2.5 micrometres. We report on PM2.5 Particulate matter PM2.5 and PM10 ozone nitrogen dioxide sulfur. 19 United Kingdom alphabetical. United Kingdom Birmingham. UK households who have a log burner in lounge face £1,000 fines. Birmingham Live. According to gov.uk numerous parts of the UK fall under smoke control areas and means that releasing smoke Unauthorised fuels such as wood can only be burned in exempt Chesneys explains A woodburning stove with DEFRA approval has passed. United Kingdom Lancaster. Homes with log burners face £1000 fines for using 'wrong fuel' Lancs Live. a wood burner. There are various rules around using wood burners. United Kingdom Leicester. Households with log burners could be fined £1000 for using 'wrong fuel' Leicester Mercury. a wood burner in the corner of a room. There are various rules around using wood burners. United Kingdom London. Are heat pumps the future or just a lot of hot air? The Guardian. Heat pumps are designed to be installed outside the home to extract warmth from the air ground or water. In densely populated areas this could mean. United Kingdom London. Households face £1k fine this autumn for using 'wrong fuel' in burners Express.co.uk Daily Express gas low volatile steam coal. Exempt appliances are allowed to burn unauthorised fuels such as wood. These include certain

| | Add Data Layer | US EPA PM2.5 (AQI) | Indice de Aire y Salud PM2.5 | Australian PM2.5 (AQI) | Canadian PM2.5 (AQHI) | Chinese PM2.5 (AQI) | European PM2.5 (AQI) | India PM2.5 (NAQI) | Indonesia PM2.5 (ISPU) | New South Wales PM2.5 | Tasmanian PM2.5 Scale (µg/m³) | UK PM2.5 Daily Air Quality Index | Location Type |
|--|----------------|--------------------|------------------------------|------------------------|-----------------------|---------------------|----------------------|--------------------|------------------------|-----------------------|-------------------------------|----------------------------------|---------------|
|  Burkina Faso | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | OUT |
|  Luxembourg | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | OUT |
|  Madawaska Parish | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | OUT |
|  Norway | 4 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | OUT |
|  Armenia (inside) | 5 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | IN |
|  Austria (inside) | 6 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | IN |
|  Iceland | 7 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | OUT |
|  Montserrat | 8 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | OUT |
|  Belgium | 9 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | OUT |

boilers cookers and stoves. United Kingdom London. UK homeowners are reluctant to switch to low carbon heating our research points to how. The Conversation. heat pumps or district heating to cut greenhouse heat pump installation is very expensive way more than the available government funding. United Kingdom London. 'We don't think about energy bills any more' how a heat pump changed a couple's lives. The Guardian. Living in an energy efficient zero carbon home with an air source heat pump has cut energy bills drastically. United Kingdom Nuffield. Fewer children admitted to hospital for asthma as air quality improves Nuffield Trust. Particulate Matter PM 2.5 is one of the main elements of urban air pollution released from homes traffic and industry. Annually 29,000 to 43,000. United Kingdom Scotland. Dundee dad among wood stove fans fighting for their right to burn despite air pollution fears. The Courier. Many of us are fans of wood burning stoves in Dundee and beyond but what risks do we pose to our health and the environment by using them? United Kingdom Scotland. Time to do away with the myths of housing associations. The Herald. heat pump will be significantly cheaper to run than gas central heating. heat pumps or where there is additional waste heat available. If you. 20 Europe. How's That NetZero 'Everybody Will Have a Heat Pump' Thing Going in Europe? Hot Air. Over the same period in 2023 1.44 million heat pumps were sold in countries including France Italy Germany and Sweden. It means fewer than 1.5, 21 Denmark. Johnson Controls Announces Major Expansion at Holme Heat Pump Facility Denmark. Johnson Controls. Heat pumps are a critical technology for the energy transition typically using a third of the energy of conventional heating systems while reducing. 22 Greece. Incentives for greater use of heat pumps eKathimerini.com heat pumps. The program which is expected to begin this fall will subsidize 50%60% of the cost of purchasing and installing a heat pump in. 23 India. Alphabetical. Come November Shehr thenews.com.pk The News International. PM 2.5 has reduced the life expectancy of the residents of the country by almost four years. This figure goes up to seven years in cities like Lahore. India. Expert Explains Why quick fixes like smog towers cloud seeding won't save us from air pollution. The Indian Express. This prevents pollutants from rising and dispersing causing levels of fine particulate matter PM 2.5 and other air pollutants to reach extremely. India. Smoke the air pollutant Kashmir Vision. Houses had chimneys at the top of the kitchen to let out the smoke as kitchens used to be smoky due to coal or wood as the fuel for cooking. 24 Malaysia. Commercial HVAC Market to Grow by USD 25.3 Million from 20242028 Driven by. The Malaysian Reserve. 2.1 Heat pump 2.2 Furnaces 2.3 Boilers 2.4 Unitary heaters. Geography Energy saving systems like underfloor heating and heat pumps are popular. 25 PurpleAir Map Update. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization. September 28 2024. A new version of the PurpleAir Map has been released! Many new features have been added that support geographical data analysis and enhance user experience. Below I'll jump into what's new with the [PurpleAir Map](#)! Location Specific Viewing. The map now supports the functionality of viewing sensors within defined boundaries. But what does that mean? This means that you can choose to look at sensors in a restricted area such as the United States for example and not see sensors outside of that boundary! This can make the map easier to parse and is also very useful for people who want to see the data for a specific area or want to know how many sensors are around them. Countries aren't the only boundaries supported, however. You can also choose to go down to the state county or even city level depending on the country. These higher geographical resolutions allow for more and improved targeted data collection. How Do I Do This? Defining a boundary is actually very quick and simple. In the address bar of your preferred browser type in map.purpleair.com/. After the / type in whatever location you want. The currently supported selections range from countries to cities. Press ENTER or RETURN. That's it! You should automatically be brought to an appropriate view of the geographical location you entered. If you're not sure where to start try inputting your home country! Worldwide Real-Time Interactive Ranking. Along with this map update we're releasing our new sensor data ranking tool! This tool allows you to compare data layers over multiple regions change the scope of your data view and more. Learn how to use the tool below. In the address bar of your preferred browser type in location.purpleair.com. This should bring you to a table that looks something like below. By default you will see a list of countries

| | Add Data Layer | X | X | X | X | X | X | X | X | X | X | X | X | X |
|--|-------------------------------|----------------------|------------------------------|------------------------|------------------------|---------------------|----------------------|--------------------|------------------------|-----------------------|-------------------------------|----------------------------------|---------------|---|
| | | US EPA < PM2.5 (AQI) | Índice de Aire y Salud PM2.5 | Australian PM2.5 (AQI) | Canadian PM2.5 (AQHI+) | Chinese PM2.5 (AQI) | European PM2.5 (AQI) | India PM2.5 (NAQI) | Indonesia PM2.5 (ISPU) | New South Wales PM2.5 | Tasmanian PM2.5 Scale (µg/m³) | UK PM2.5 Daily Air Quality Index | Location Type | X |
| | Ethiopia | 1 | 258 | 208 | 831 | 21 | 258 | 208 | 368 | 258 | 208 | 10 | OUT | |
| | Ethiopia (inside) | 2 | 197 | 146 | 582 | 15 | 194 | 146 | 320 | 195 | 146 | 10 | IN | |
| | Afghanistan | 3 | 166 | 84 | 337 | 9 | 112 | 84 | 181 | 131 | 84 | 10 | OUT | |
| | Vietnam | 4 | 155 | 64 | 256 | 7 | 87 | 64 | 115 | 110 | 64 | 8 | OUT | |
| | Zambia | 5 | 145 | 53 | 212 | 6 | 73 | 53 | 89 | 97 | 53 | 6 | OUT | |
| | Gabon | 6 | 142 | 52 | 208 | 6 | 72 | 52 | 87 | 96 | 52 | 6 | OUT | |
| | Uganda | 7 | 135 | 50 | 198 | 5 | 69 | 50 | 83 | 93 | 50 | 6 | OUT | |
| | Pakistan | 8 | 114 | 41 | 162 | 5 | 58 | 41 | 68 | 82 | 41 | 4 | OUT | |
| | United Arab Emirates (inside) | 9 | 112 | 40 | 160 | 5 | 57 | 40 | 67 | 81 | 40 | 4 | IN | |

ranked by air quality. This is because the default data layer selections include all of the available AQIs as well as location type. You can delete data layers from this list by clicking the X at the top of their respective boxes. The default view ranks the highest value at the top with the rest in descending order. You can switch the order around and make the lowest value appear at the top by clicking inside the first data layer box at the top left. The result should look something like below. On the left side of the table is a list of countries ranked by their AQI values. Clicking on one of those countries will bring you to a new list that is one level down in terms of scope. For example if you click on the United States you will be brought to a list of all the US states. If you then click on a state you will be brought to a list of its counties etc. Deleting all data layers that are selected will result in the list on the left becoming alphabetized. Other Added Features. This map update also features a number of new settings available on the map configuration page including new data layers conversions and other customizable options. Below you'll find a brief overview of the new options. I encourage you to [hop onto the map](#) to check them out. Data Layers. A number of new data layers have been added including the following Canadian PM2.5 AQHI+ Chinese PM2.5 AQI. New South Wales PM2.5 AQI. UK PM2.5 Daily Air Quality Index. British Columbia PM2.5 µg/m3. Canadian PM2.5 µg/m3. PM2.5 Expressed as Cigarettes Per Day. Sensor Edition. Conversions A few new conversions have been added including the following. An updated ALT cf=3 conversion now called ALT cf=3.4. An updated US EPA conversion. A conversion developed by the Canada ECCC. Other Settings You now have the option to turn off the gradient color scale used on map markers. You can now choose between Imperial and Metric units. Not sure where to go? [Check out the map](#) or [view air quality rankings now!](#)



| | Add Data Layer > | US EPA < PM2.5 (AQI) | Indice de Aire y Salud PM2.5 | Australian PM2.5 (AQI) | Canadian PM2.5 (AQHI+) | Chinese PM2.5 (AQI) | European PM2.5 (AQI) | India PM2.5 (NAQI) | Indonesia PM2.5 (ISPU) | New South Wales PM2.5 | Tasmanian PM2.5 Scale (µg/m³) | UK PM2.5 Daily Air Quality Index | Location Type X |
|-------------------------------|------------------|----------------------|------------------------------|------------------------|------------------------|---------------------|----------------------|--------------------|------------------------|-----------------------|-------------------------------|----------------------------------|-----------------|
| Ethiopia | 1 | 258 | 208 | 831 | 21 | 258 | 208 | 368 | 258 | 208 | 208 | 10 | OUT |
| Ethiopia (inside) | 2 | 197 | 146 | 582 | 15 | 194 | 146 | 320 | 195 | 146 | 146 | 10 | IN |
| Afghanistan | 3 | 166 | 84 | 337 | 9 | 112 | 84 | 181 | 131 | 84 | 84 | 10 | OUT |
| Vietnam | 4 | 155 | 64 | 256 | 7 | 87 | 64 | 115 | 110 | 64 | 64 | 8 | OUT |
| Zambia | 5 | 145 | 53 | 212 | 6 | 73 | 53 | 89 | 97 | 53 | 53 | 6 | OUT |
| Gabon | 6 | 142 | 52 | 208 | 6 | 72 | 52 | 87 | 96 | 52 | 52 | 6 | OUT |
| Uganda | 7 | 135 | 50 | 198 | 5 | 69 | 50 | 83 | 93 | 50 | 50 | 6 | OUT |
| Pakistan | 8 | 114 | 41 | 162 | 5 | 58 | 41 | 68 | 82 | 41 | 41 | 4 | OUT |
| United Arab Emirates (inside) | 9 | 112 | 40 | 160 | 5 | 57 | 40 | 67 | 81 | 40 | 40 | 4 | IN |

| | Add Data Layer > | US EPA > PM2.5 (AQI) | Indice de Aire y Salud PM2.5 | Australian PM2.5 (AQI) | Canadian PM2.5 (AQHI+) | Chinese PM2.5 (AQI) | European PM2.5 (AQI) | India PM2.5 (NAQI) | Indonesia PM2.5 (ISPU) | New South Wales PM2.5 | Tasmanian PM2.5 Scale (µg/m³) | UK PM2.5 Daily Air Quality Index | Location Type X |
|------------------|------------------|----------------------|------------------------------|------------------------|------------------------|---------------------|----------------------|--------------------|------------------------|-----------------------|-------------------------------|----------------------------------|-----------------|
| Burkina Faso | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | OUT |
| Luxembourg | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | OUT |
| Madawaska Parish | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | OUT |
| Norway | 4 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | OUT |
| Armenia (inside) | 5 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | IN |
| Austria (inside) | 6 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | IN |
| Iceland | 7 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | OUT |
| Montserrat | 8 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | OUT |
| Belgium | 9 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | OUT |

