

Episode 56LPC November 15, 2023. Why do this PurpleAir CSV 3 day download to calculate % over PM2.5 NAAQS for 1 sensor?

See Episode 56LPB Video of steps from PurpleAir CSV 3 day download to calculation of % over NAAQS for 1 sensor for RAWSEP Coast to Coast.

This calculation is your superpower. With a Residents Against Wood Smoke Emission Template which you can obtain by emailing [rawsepresidents@gmail.com](mailto:rawsepresidents@gmail.com) and requesting the template, you can calculate, from a CSV file download from your own PurpleAir PM2.5 sensor location circle on the PurpleAir Map, the % of time in a 3 day period that your neighboring indoor residential wood burner emitted PM2.5 above NAAQS limits that reached your yard and sickened you, using the Environmental Protection Agency's own National Ambient Air Quality Standards (NAAQS) PM2.5 limit numbers, 12 micrograms per cubic meter annually, 25 micrograms per cubic meter (Proposed for 2024) in a 24 hour period, and 35 micrograms per cubic meter (currently in 2023) in a 24 hour period. PM2.5 is particulate matter of 2.5 micrometer size, the perfect size to infiltrate the human lung, producing a cascade of human health problems and early deaths. Wood burning emits more PM2.5 & CO2 than coal burning. Wood burning emits 450 times the PM2.5 as natural gas burning.

Why is this calculation your superpower? With this calculation you can go to your local Health Department and give them scientific evidence of ongoing pollution on your property, caused by your near neighbor's indoor residential wood burning. Up to now, if a wood stove was certified, very little was done on a local level to contain wood stove pollution that adversely affected near neighbors. Local officials pointed to certification of wood stoves as providing evidence that the pollution was permitted.

The Office of the Inspector General stated in a February 2023 report that the EPA's indoor residential wood stove certification program, certifying wood stoves as "safe" was deeply flawed, resulting in wood stoves being sold that are usually and perhaps always highly polluting. These flaws existed in the program due to the successful lobbying by the wood stove industry to impose huge loopholes on compliance with existing EPA rules for limits on wood stove PM2.5 emissions. Burning solid fuels is also inherently polluting, and over time it has been shown that it is better not to burn solid fuels at all, since carbon capture is not done to an appreciable degree in wood stoves, and carbon capture on an industrial scale is so expensive and hard to implement that it has been unsuccessful and remains hugely expensive, requiring massive subsidies from governments to keep carbon capture research afloat, but still unsuccessful after the fact. Just don't burn wood to begin with. Just don't burn solid fuels to begin with.

So make your % calculations, and go to your local Health department with this scientific evidence of pollution.