

Episode 560D December 29, 2023. A PurpleAir PM2.5 monitor is not a toy, but it's fun for adults and children to use (Flyer).

This toy lawnmower gives a kid something fun to do outdoors in the spring, summer, and fall. This toy snow shovel gives a kid something fun to do outdoors in the winter. How does PM2.5 in the yard of a near neighbor's child change this fun outdoor activity from healthy exercise to outdoor exercise that drives PM2.5 deep into the child's lungs? Nearby indoor residential wood burning causes the ambient (outdoor) air of the child's yard to be polluted with PM2.5 above EPA NAAQS (above 12 micrograms per cubic meter annually and above 35 micrograms per cubic meter in a 24 hour period). A fun, healthy activity for a child is changed to a health threatening activity that could lead to future disease and early death. On the other hand, in contrast, a PurpleAir PM2.5 monitor is not a toy, but it's fun for adults and children to use. The parent could act as a citizen scientist, and maybe, the child could grow up to be a citizen scientist himself, helping to make his community a clean community, where everyone can breathe clean air when they exercise outdoors. The message from the London Wood Burning cartoon is "wood burners, it's scary what they're doing to public health. Wood burners. Careless, not cozy. To find out more woodburning.london" This Residents Against Wood Smoke Emission Particulates <https://rawsepresidents.com> flyer doesn't illustrate with a picture the adverse health effects on children outdoors in their neighborhood at night, but the health effects are the same at night as in the daytime when children play at lawnmowing and snow shoveling with their parents who are near neighbors of indoor residential wood burners. PM2.5 can also seep into a near neighbor's house from the outdoor air, and then air purifiers must be used to obtain clean air to breathe indoors. NAAQS stands for National Ambient Air Quality Standards for PM2.5, set by the Environmental Protection Agency (EPA), (12 micrograms per cubic meter annually and 35 micrograms per meter cubed in a 24 hour period). Acting as a citizen scientist, download 3 days of data from your PurpleAir PM2.5 monitor map chart for your location. Use the RAWSEP Excel Template to calculate PM2.5 percentage above NAAQS in a 3 day period and bring that evidence of pollution from indoor residential wood burning to your local Health Department in order to get that hyper-localized indoor residential wood burning in your neighborhood shut down. Wood smoke is 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. Wood burning emits more PM2.5 and CO₂ than the fossil fuel coal burning. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning.

