

July 18, 2022, RAWSEP news paraphrased

1. The U.S. Midwest & the U.S. South

2. The U.S. Northeast

3. The U.S. West Coast & South America

<https://air.health/>

<https://www.youtube.com/watch?v=CMzt3YBLUKQ>

Bay Area Air: Find Out the Level of Pollution on Your Street With New Online Tool

NBC Bay Area

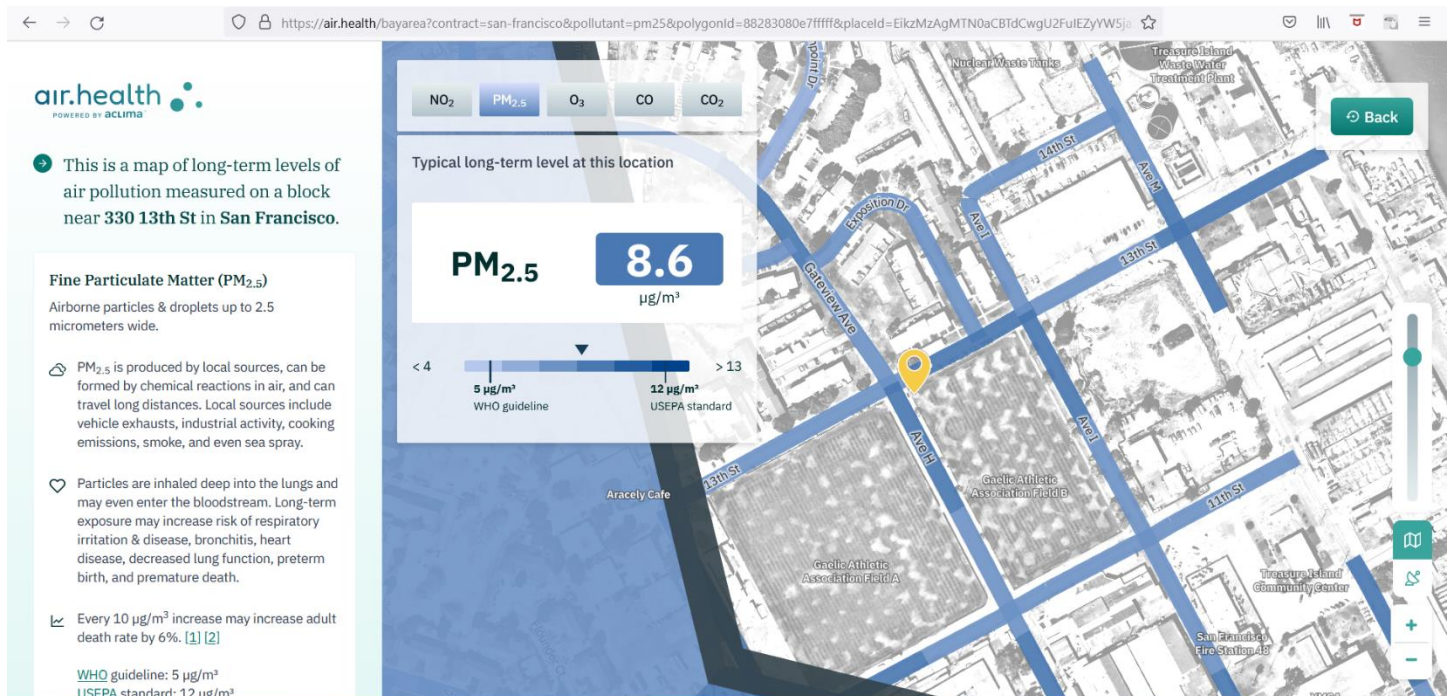
In West Oakland, the **PM 2.5** ranged between 9 and 12. ... measuring the levels of particulate matter, nitrogen dioxide and carbon dioxide.

RAWSEP View: HYPER-LOCALIZED MONITORING

Good video on PM 2.5 levels in Bay Area. Every block measured for PM 2.5. Can vary from 5 to 8 times by block. Black people have higher pollution because live near freeways and industrial pollution. New sources can be discovered.

Air.Health can find out levels of pollution on your block in the Bay Area. Want to know the quality of the air you're breathing? Now you can find out: A new website lets you check the level of air pollution on the street where you live.

Bob Redell reports.



4. Canada

Ontario, Ottawa

No campfires! Open air fire ban issued for the city of Ottawa

CTV News Ottawa

Campfires, brush piles and **wood burning** outdoor fireplaces are not permitted during the ban. A fire ban is declared by Ottawa's fire chief or his ...

Ottawa Fire Services issues ban on open-air fires CityNews Ottawa Campfires, brush piles and **wood burning** outdoor fireplaces are not allowed during the ban.

RAWSEP View: Ottawa, Ontario fire ban issued.

5. Australia

https://www.thesaturdaypaper.com.au/news/environment/2022/07/16/the-case-against-prescribed-burning-fight-bushfires?fbclid=IwAR2KQnHhZkE8YAPgNppiRoRlxeMjwzDaUmAnBKguUHRg7_aMRKU05uH7ZEc#mtr

RAWSEP View: The case against prescribed burning, in an Australian newspaper.

6. New Zealand

7. U.K. & Ireland

Ireland

Burning of smoky fuel is bad for your health as well as environment - Irish Examiner

Irish Examiner

What is at risk of being lost in the ashes is that **burning** of smoky fuels such as coal, poor quality turf and wet **wood** in the home is responsible ...

RAWSEP View: Wet wood smoke is a problem in Ireland.

8. Germany in the European Union, & Europe

9. Nigeria in Africa

10. India in Asia & Pacific Islands

Bangladesh

Bangladesh air worst in world - The Daily Star

The Daily Star

Taking population into account, Bangladesh emerged as the country with the worst particulate matter (**PM**) **2.5** pollution, followed by Pakistan, ..

RAWSEP View: Bangladesh has the worst particulate matter pollution in the world.

China

Reducing aerosol pollution could lead to an unexpected rise in ozone - C&EN

C&EN - American Chemical Society

The Chinese government implemented strict policies aimed at reducing fine particulate matter (**PM 2.5**), a type of pollution responsible for about 1 ...

RAWSEP View: Particulate matter is strictly controlled in China, according to this article.

India

Indoor air pollution 20 times limit prescribed by WHO, shows study | Latest News Delhi

Hindustan Times

The study also highlighted that the levels of **PM 2.5** (particulate matter of diameter less than 2.5 micrometres) was significantly higher than the ...

RAWSEP View: In India indoor air pollution is 20 times the limit prescribed by WHO.

India

MG ZS EV sells 5000 units in India - Cartoq

Cartoq

... push start-stop button, and **PM 2.5** in-cabin air purifier are additional amenities that enhance the MG ZS EV's entire package.

RAWSEP View: The response of the Indian auto buyers for the long-range electric four-wheelers has been sensational and owing to this we are seeing these EV vehicles flying off the shelf. And in a testament to this, recently the British Motoring brand Morris Garages Motor India announced that it has achieved a massive milestone. The company revealed that its all-electric SUV – the ZS EV has crossed the sales tally of 5000 units in the country. It also added that the ZS EV is currently consistently receiving over 1,000 reservations every month.

Indonesia

Jakarta Pollution Tops IQ Air's Worst Air Quality Index List - Tempo English

Tempo English

... the capital's air quality is categorized as unhealthy because currently the concentration of Particulate Matter (**PM**) **2.5** is 111.5 micrograms ...

RAWSEP View: Jakarta, Indonesia has particulate matter PM 2.5 at a high level.

Singapore

Singapore: GHG Emissions From Bunkers Quadruple City-State's Domestic Output

Ship & Bunker

... surrounding southeast Asia, bunker fuel sold in Singapore accounts for more than 42% of all fine particulate matter (**PM 2.5**) from shipping.

RAWSEP View: Bunker fuel accounts for more than 42% of all fine particulate matter (PM 2.5) from shipping.

10.5 Technology & Research Papers

<https://seetheair.org/2022/07/12/low-cost-sensors-do-they-hold-up-to-the-hype/?fbclid=IwAR1OtGlF6D7-Lo8ieuqsSVwUopnTbT4EXOp2F5YesmsGEmnLRa5JOnhWIH4>

RAWSEP View: The article “Low cost sensors, do they hold up to the hype”. The author questions whether the data from sensors like PurpleAir can hold up in court. Most people who can't afford \$100,000 EPA sensors (if \$100,000 sensors are even sold to the general public) buy “low-cost” sensors. \$300 PurpleAir sensors are used alongside \$100,000 EPA sensors on AirNow Smoke and Fire Maps, after their data is correlated EPA data by using a simple mathematical formula. For example, there are only around 15 EPA monitors and around 55 PurpleAir monitors on the map in the state of Wisconsin. The PurpleAir sensors are relied on by people across the U.S. who consult these maps and decide whether to exercise outdoors, or even decide whether to flee their homes because of the level of particulates they are at risk of inhaling. PurpleAir users are not “litigious”. The people who are potentially litigious are those who would like the law to reflect their “unreal” view of air pollution. Their view is “it doesn't exist”.

In London, and across the U.K. low cost sensors are being handed out to low income residents, with the ultimate goal of shutting down individual residential wood burners. Those residential wood burners with expensive lawyers may hold up their individual client's wood burning shut-downs, but not forever. Local ordinances can be enforced against wood burning neighbors of poor people. Poor people don't have to bring expensive nuisance suits to court if there are ordinances against polluting residential wood burning.

Look instead at the emissions that come from low-cost or even expensive wood burning appliances. If their actual emissions were monitored in a hyper-localized way, would the manufacturer's claims of “clean” energy hold up in court. No.

On the issue of calibration, PurpleAir sensors will never be calibrated to work the same as EPA sensors. They are different machines. Electric cars can't be calibrated to exactly resemble gas-powered cars. Their driving speeds can of course be compared. PurpleAir sensors use lasers to count particulates and PurpleAir monitors have accurate data ready every 10 minutes. EPA monitors collect and weigh particles and estimate how many particles are of lighter wood density and how many particles are of heavier gravel density. EPA monitors only spew out data once an hour. PurpleAir uses new technology that is reliable, but different from EPA technology, but PurpleAir can be correlated with EPA data using a simple mathematical formula. It is correlated and the data is put on AirNow Maps alongside EPA monitor data.

How to avoid accidental fires: Build campfire away from tent

Local fire department give tips on how to avoid accidental fires this summer

Times Record News

Camping/outdoor grilling: Build your campfire at least 25 feet away from tents, shrubs and anything that can **burn**. Use propane, charcoal, or **wood** ...

RAWSEP View: Use Propane heater or even solar heat, for cooking food, rather than a campfire.

11.The Future