

Episode 56RiD March 2, 2024. Humboldt County, California (partial Snapshot). PM2.5 % and level in micrograms per cubic meter over 3 days using PurpleAir Data. PurpleAir PM2.5 monitor readings are averages over 3 days of 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 emissions are 90% PM2.5, and wood burning emits 2.8 times the PM2.5 and C O 2 as the fossil fuel coal burning. Wood burning emits 450 times the PM2.5 as the fossil fuel natural gas burning. Many residents buy PurpleAir PM2.5 monitors to prove that as near neighbors of indoor residential wood burners, the wood burning emissions enter the near neighbors yards and sicken them, at levels above Environmental Protection Agency (EPA) National Ambient Air Quality Standards (NAAQS) which in **2024 are 9** micrograms per cubic meter annually and 35 micrograms per cubic meter in a 24 hour period. The highest average readings for **Humboldt County, California** PurpleAir monitors is **19** at **Peterson**. The lowest average readings is **2** micrograms per cubic meter at **Elk Meadow Cabins**. An Excel sheet of all 10 minute readings in a 72 hour period can be downloaded from <https://rawsepresidents.com> at the County Snapshot tab. All 3 days of 10 minute individual PurpleAir PM2.5 readings for all monitors are hidden on the Excel sheet but can be unhidden and viewed.

| DateTime | Elk Meadow | | NC#128_Loleta_Wiyot | | |
|---------------|--|---------|--|---------|----------------|
| | Cabins A | Ewing A | RCM Outside A | Tribe A | Ferndale, CA A |
| Average PM2.5 | 2 | 11 | 16 | 6 | 7 |
| % 9 µg/m3 | 0% | 49% | 75% | 18% | 20% |
| % 15 µg/m3 | 0% | 22% | 53% | 3% | 12% |
| % 25 µg/m3 | 0% | 5% | 18% | 1% | 6% |
| % 35 µg/m3 | 0% | 0% | 2% | 1% | 1% |
| % 45 µg/m3 | 0% | 0% | 0% | 1% | 0% |
| | Elk Meadow Cabins A CA, Humboldt County | | NC#128_Loleta_Wiyot Tribe A CA, Humboldt County | | |
| # of monitor | 1 | 2 | 3 | 4 | 5 |

| DateTime | NC#131_Burnt | | NC#109_Hyampom | | Simmons ville A |
|---------------|---|------------|---|-----|---|
| | Hoop a HS A | Peterson A | Ranch A | A | |
| Average PM2.5 | 11 | 19 | 10 | 18 | 3 |
| % 9 µg/m3 | 34% | 49% | 35% | 52% | 5% |
| % 15 µg/m3 | 26% | 41% | 21% | 40% | 3% |
| % 25 µg/m3 | 17% | 31% | 9% | 28% | 1% |
| % 35 µg/m3 | 7% | 18% | 5% | 16% | 0% |
| % 45 µg/m3 | 3% | 9% | 1% | 9% | 0% |
| % 55 µg/m3 | 1% | 7% | 1% | 6% | 0% |
| | NC#131_Burnt Hoop a HS A CA, Humboldt County | | NC#109_Hyampom A CA, Humboldt County | | Simmons ville A CA, Humboldt County |
| # of monitor | 6 | 7 | 8 | 9 | 10 |