

Episode 56QA2, February 1, 2024. County Snapshot (**Humboldt County, California**). PM2.5 % and level in micrograms per cubic meter over 3 days using PurpleAir Data.

County Snapshot of **Humboldt County, California** from **January 29 to February 1, 2024**. The total of **22** municipality monitors in **Humboldt County, (only a partial sampling of PurpleAir monitors in Humboldt County) 1)from Arcata to Eureka, 2)from Trinidad and 3)from Big Lagoon**. All are on or near the **Pacific Ocean Coast**. 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 CO₂ 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 2023 were 12 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 are **18 at Trinidad's Ewing monitor**. The lowest average readings are **2 micrograms per cubic meter at the Freshwood monitor in Humboldt County**. 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 **22** monitors are hidden on the Excel sheet but can be unhidden and viewed.

Date/Time	Terrace Avenue - Arcata CA (outdoor) A	585 California Ave A	University Library Outdoor A	Dragon House A	NC#158_Bayside_Jacoby Creek ES A
Average PM2.5	5	5	3	6	5
% <= 12 ug/m3	75%	6%	2%	17%	11%
% <= 25 ug/m3	2%	1%	0%	3%	1%
% <= 35 ug/m3	1%	0%	0%	1%	0%
% <= 45 ug/m3	0%	0%	0%	0%	0%
% <= 55 ug/m3	0%	0%	0%	0%	0%
% <= 65 ug/m3	0%	0%	0%	0%	0%
% <= 75 ug/m3	0%	0%	0%	0%	0%
	Terrace Avenue - Arcata CA (outdoor) A	585 California Ave A	University Library Outdoor A	Dragon House A	NC#158_Bayside_Jacoby Creek ES A
	CA, Humboldt County	CA, Humboldt County	CA, Humboldt County	CA, Humboldt County	CA, Humboldt County

<u>DateTime</u>	<u>435 Crestwood Drive, Arcata A</u>	<u>Baywood Estate A</u>	<u>#153 A</u>	<u>NC#160_Freshwater_Freshwater ES A</u>	<u>Freshwater, CA A</u>
Average PM2.5	3	4	5	6	2
%>= 12 ug/m3	0%	2%	5%	11%	1%
%>= 25 ug/m3	0%	0%	0%	2%	1%
%>= 35 ug/m3	0%	0%	0%	1%	1%
%>= 45 ug/m3	0%	0%	0%	0%	0%
%>= 55 ug/m3	0%	0%	0%	0%	0%
%>= 65 ug/m3	0%	0%	0%	0%	0%
%>= 75 ug/m3	0%	0%	0%	0%	0%

435 Crestwood Drive, Arcata A
CA, Humboldt County

Baywood Estate A
CA, Humboldt County

#153 A
CA, Humboldt County

NC#160_Freshwater_Freshwater ES A
CA, Humboldt County

Freshwater, CA A
CA, Humboldt County

<u>DateTime</u>	<u>Egg Palace A</u>	<u>Carson & 5th A</u>	<u>Eureka HS outside A</u>	<u>Eagle outside A</u>	<u>Westgate A</u>
Average PM2.5	6	6	8	7	3
%>= 12 ug/m3	18%	13%	22%	13%	1%
%>= 25 ug/m3	2%	4%	4%	6%	0%
%>= 35 ug/m3	0%	0%	0%	2%	0%
%>= 45 ug/m3	0%	0%	0%	0%	0%
%>= 55 ug/m3	0%	0%	0%	0%	0%
%>= 65 ug/m3	0%	0%	0%	0%	0%
%>= 75 ug/m3	0%	0%	0%	0%	0%

Egg Palace A
CA, Humboldt County

Carson & 5th A
CA, Humboldt County

Eureka HS outside A
CA, Humboldt County

Eagle outside A
CA, Humboldt County

Westgate A
CA, Humboldt County

<u>Date/Time</u>	NC#150_Cutten_RidgewoodES A	Berta road A	NC#128_Loleta_Wiyot Tribe A	Westward Dr N, Trinidad A	Ewing A
Average PM2.5	3	5	5	8	18
%>= 12 <u>ug/m3</u>	2%	7%	7%	23%	64%
%>= 25 <u>ug/m3</u>	1%	5%	3%	7%	24%
%>= 35 <u>ug/m3</u>	0%	3%	0%	3%	7%
%>= 45 <u>ug/m3</u>	0%	2%	0%	1%	2%
%>= 55 <u>ug/m3</u>	0%	1%	0%	0%	0%
%>= 65 <u>ug/m3</u>	0%	1%	0%	0%	0%
%>= 75 <u>ug/m3</u>	0%	0%	0%	0%	0%
	NC#150_Cutten_RidgewoodES A CA, Humboldt County	Berta road A CA, Humboldt County	NC#128_Loleta_Wiyot Tribe A CA, Humboldt County	Westward Dr N, Trinidad A CA, Humboldt County	Ewing A CA, Trinidad, Humboldt County

<u>Date/Time</u>	Rainbow Lane A	Big Lagoon Outside A
Average PM2.5	6	10
%>= 12 <u>ug/m3</u>	13%	25%
%>= 25 <u>ug/m3</u>	7%	9%
%>= 35 <u>ug/m3</u>	3%	4%
%>= 45 <u>ug/m3</u>	2%	1%
%>= 55 <u>ug/m3</u>	0%	0%
%>= 65 <u>ug/m3</u>	0%	0%
%>= 75 <u>ug/m3</u>	0%	0%
	Rainbow Lane A CA, Humboldt County	Big Lagoon Outside A CA, Humboldt County