



Department of Environmental Conservation's Air Monitoring Program Community-Based Air Monitoring Project

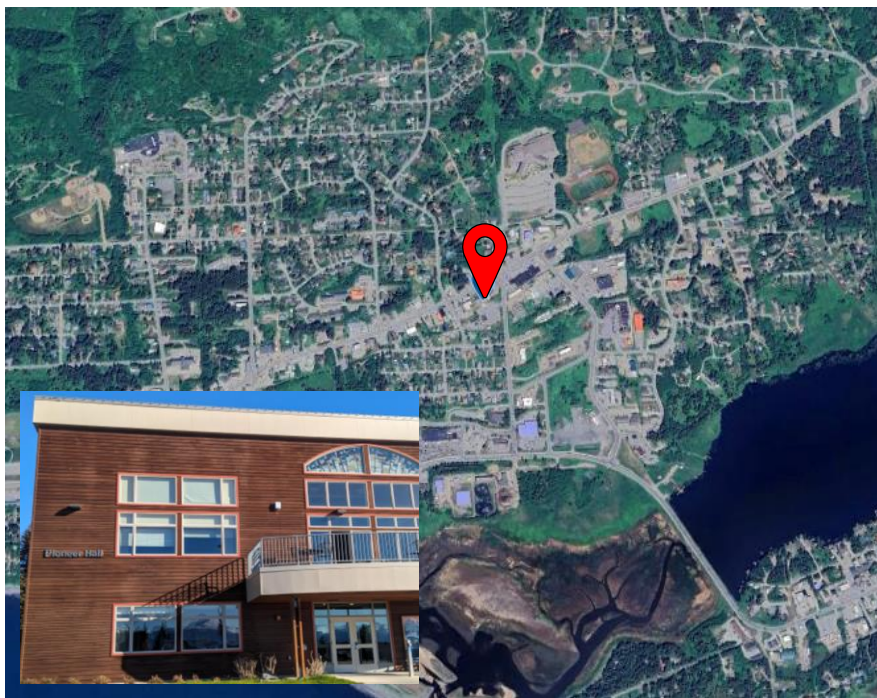
2024 Summer Season Air Quality Report for Homer, Alaska

The QuantAQ MODULAIR sensor in Homer (533 E Pioneer Ave, Homer, AK 99603) was installed on 5/14/2024.

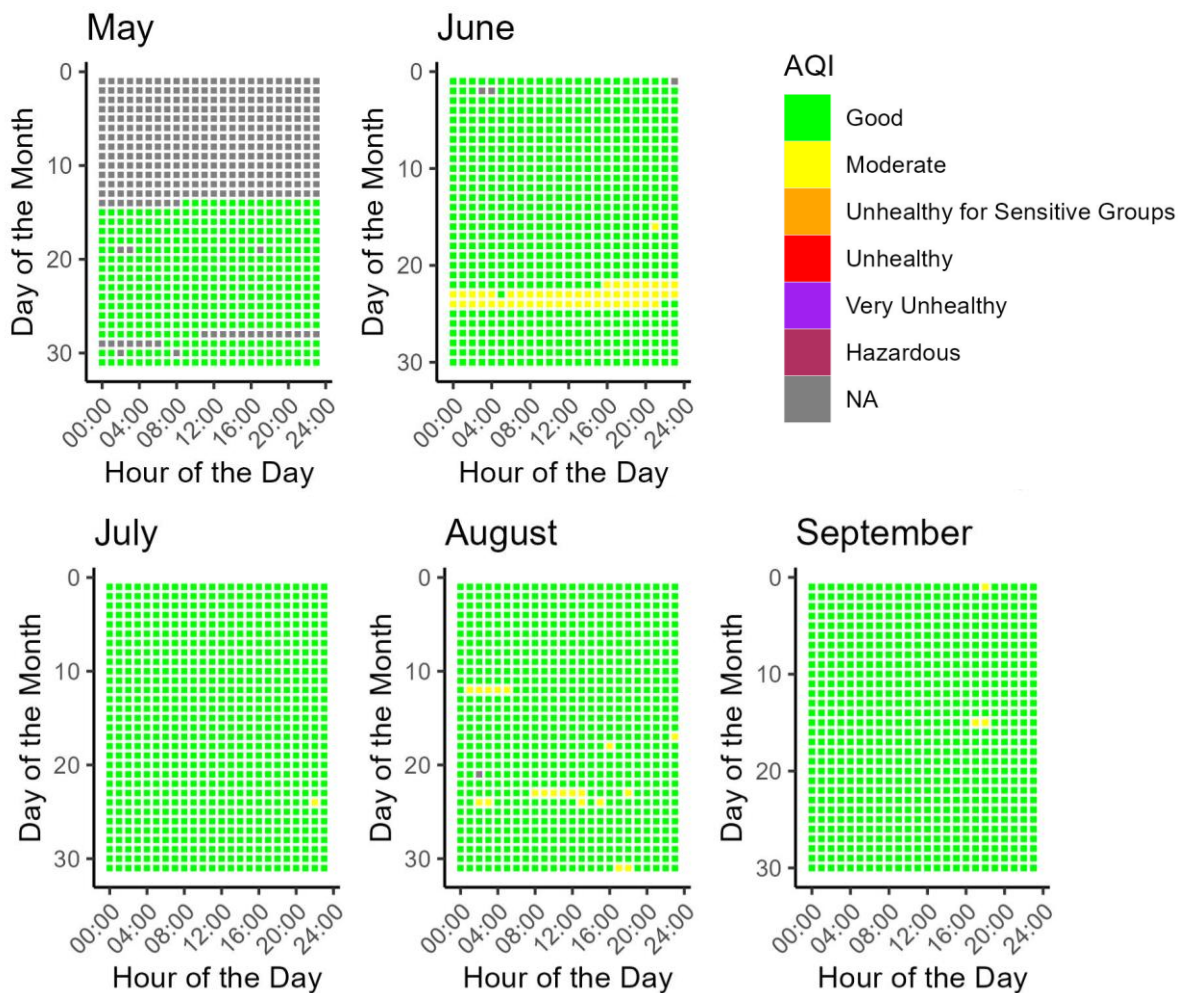
The sensor measures for carbon monoxide (CO), ozone (O₃), nitrogen oxide (NO), nitrogen dioxide (NO₂), particulate matter (PM_{2.5} and PM₁₀), temperature (°C), and relative humidity (RH). Data is collected every minute and is then processed into hourly averages.

The sensor in Homer has run well since its installation in May of 2024; there have been no physical issues with the sensor.

This data report covers the date range of May 14, 2024, to September 30, 2024.

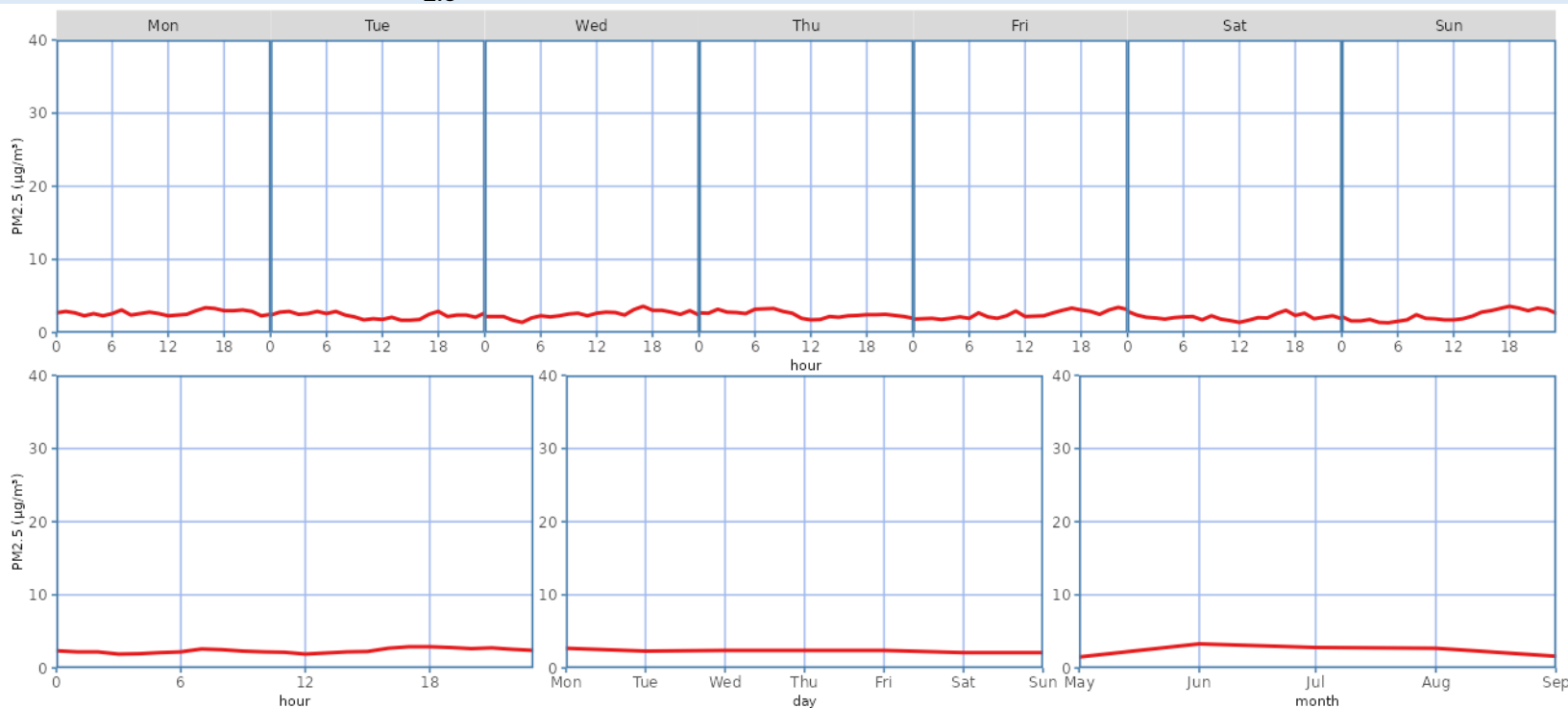


Daily PM_{2.5} Air Quality Index (AQI) for May 14, 2024 - September 30, 2024



2024 Summer Season Air Quality Report for Homer

Median PM_{2.5} Concentrations for May 14, 2024 - September 30, 2024



Descriptive Statistics of Air Pollutants*

Parameter	1-hr PM _{2.5} (µg/m ³)	24-hr PM _{2.5} (µg/m ³)	1-hr PM ₁₀ (µg/m ³)	24-hr PM ₁₀ (µg/m ³)	1-hr O ₃ (ppb)	1-hr NO ₂ (ppb)	1-hr NO (ppb)	1-hr CO (ppb)
Min	0.10	0.40	0.00	0.40	2.70	2.01	1.38	194.37
Mean	2.88	2.87	16.53 **	15.39 **	25.33	10.74	2.28	286.65
1st Max	20.40	13.10	1881 **	124 **	54.70	27.01	14.47	880.82
2nd Max	19.40	11.50	1070 **	54 **	48.90	26.96	6.42	644.58

Data Discussion

Homer’s PM_{2.5} ambient air quality for the summer 2024 season fell mostly in the “good” range of the Air Quality Index (AQI; more information about AQI is provided on page 3), with brief periods in June and August reporting “moderate”. Diurnal patterns show little variability of PM_{2.5} concentrations across different times of day or days of the week. From May to September, June showed the highest concentrations of PM_{2.5}.

* These statistics are based on preliminary data readings and are intended to provide a brief overview of sensor activity. Finalized data may be obtained upon request and through our annual statistical reports. Data from the community sensor network is non-regulatory and not comparable to the EPA’s National Ambient Air Quality Standards (NAAQS; more information about the EPA NAAQS is provided on page 3).

** PM₁₀ particle sensors are influenced by weather events such as fog and snow due to hygroscopic effects, creating false maximum values that do not pose health risks.



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Resources



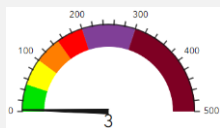
[Alaska Department of Environmental Conservation](#)



[EPA NAAQS Information](#)



[Air Quality Index \(AQI\) Basics](#)



[Real-Time AQI Data](#)



Data Access

To access historical data for your community's sensor, please email a request to: AMQA-Data-Request@alaska.gov . Data will be provided in Excel or .csv format.

Questions or Comments?

Please contact us!

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