

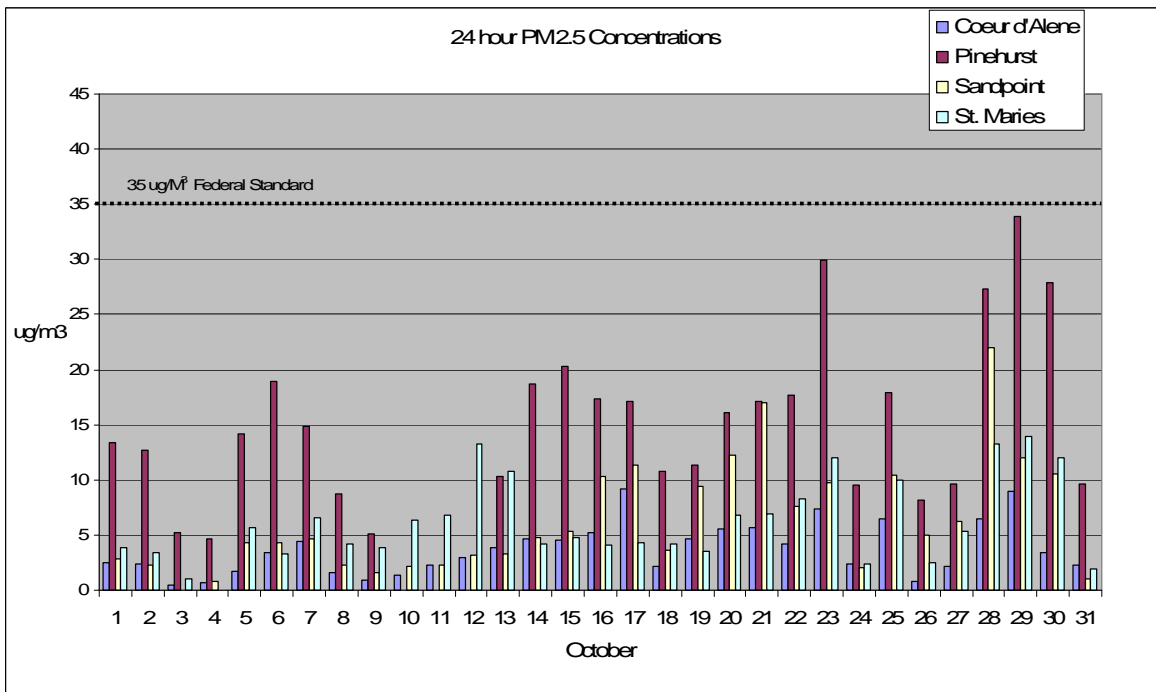
North Idaho Air Quality Summary – October 2009

This summary of North Idaho’s air quality is compiled from the various air quality samplers located in the Department of Environmental Quality’s Coeur d’Alene Region for the month of October 2009. The Coeur d’Alene Regional Network encompasses the counties of Boundary, Bonner, Kootenai, Shoshone, and Benewah. The data presented in this report is considered preliminary data and has not been completely evaluated for all quality assurance requirements.

PM2.5 CONTINUOUS DATA

The graph below displays the averaged daily 24-hour PM_{2.5} values for the month and is expressed in micrograms per cubic meter, (µg/m³). These values were calculated by averaging hourly values midnight to midnight from the agency’s PM_{2.5} TEOM samplers located in the Cities of Coeur d’Alene, Pinehurst, Sandpoint, and St. Maries.

Due to safety and access issues, the Coeur d’Alene monitor is permanently shut down. The Lancaster monitor will continue to provide the reported data for the Coeur d’Alene area.



The table below shows the maximum 24 hour values calculated from continuous TEOM monitoring for this reporting period. The National Ambient Air Quality Standard (NAAQS) for PM_{2.5} is 35 µg/m³. Currently only Federal Reference Method (FRM) filter based sample measurements are appropriate for NAAQS compliance determination. The TEOM is not a FRM/FEM sampler therefore the data presented does not confirm a NAAQS exceedance. Depiction of continuous monitoring is for reporting purposes only.

Region	Highest Reading	Date
Coeur d’Alene*	9.24	October 17
Pinehurst	33.82	October 29
Sandpoint	21.94	October 28
St. Maries	13.94	October 29

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PM2.5 FEDERAL REFERENCE METHOD (FRM) DATA

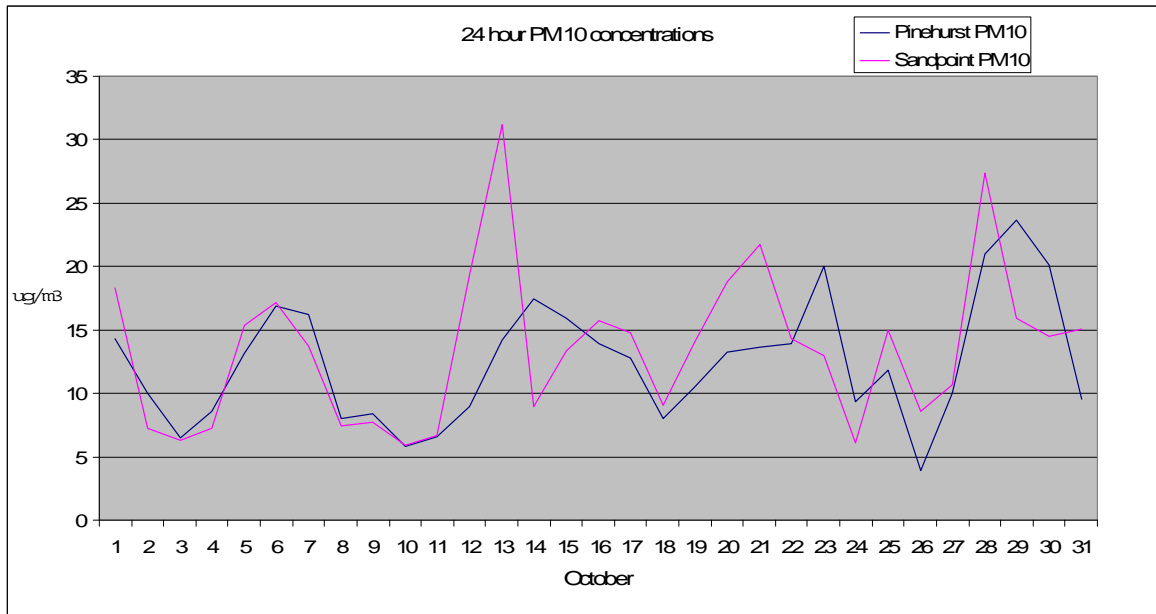
Only Federal Reference Method Sampler (filter based) measurements are appropriate for NAAQS compliance determination. The Environmental Protection Agency (EPA) requires that 75% of available data be collected per quarter. EPA also requires the filter samples must be retrieved within 177 hours and be held at below 4 degrees Celsius until analyzed. The Coeur d'Alene Regional Office's collection efficiency rate for October is shown in the table below.

October FRM filter recovery Efficiency

Site	Sample Days	Valid Samples	Collection Percentage
Pinehurst	31	29	94%
Pinehurst Precision	5	5	100%
St. Maries	11	11	100%

PM10 CONTINUOUS DATA

The graph below shows the 24 hour values for PM-10. No apparent exceedances of the 150 µg/m³ standard have occurred over this reporting period. The Sandpoint monitor was intermittently impacted by construction activities during the month. Nearby construction activities are expected to continue through October, and while the builders are taking precautions to mitigate fugitive dust creation, the proximity of the project to the Sandpoint monitor will likely lead to some impacts.



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OZONE DATA

Ozone monitoring in the Coeur d'Alene area occurs each summer ozone season, from May 1 to September 30. Currently we are outside of the Ozone season and therefore there is no data to report on. Ozone reports will resume in the spring of 2010

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NETWORK INFORMATION

The table below summarizes all active and inactive air quality samplers located within the North Idaho area during the month of October 2009.

Site	Monitor	Type	Comments	Current Status
Lancaster / Rathdrum Prairie	API 200E Nitrogen Oxides analyzer	Continuous	Seasonal	Inactive
Lancaster / Rathdrum Prairie	API 400 Ozone (O3) analyzer	Continuous	Seasonal	Inactive
Lancaster / Rathdrum Prairie	R&P 1400A TEOM PM2.5	Continuous	Replaces Lakes Middle School	Active
Lancaster / Rathdrum Prairie	Meteorological Tower	Continuous		Active
St. Maries	Met One BAM1020 PM2.5	Continuous	Special Study	Active
St. Maries	R&P 1400AB TEOM PM2.5	Continuous		Active
St. Maries	Thermo Model 2025 FRM PM2.5	Filter		Active
Pinehurst	R&P 8500 FDMS TEOM PM2.5	Continuous		Active
Pinehurst	Thermo Model 2025 FRM PM2.5	Filter		Active
Pinehurst	R & P Model 2025 FRM PM2.5	Filter	Precision	Active
Pinehurst	Met One BAM1020 PM2.5	Continuous	Special Study	Active
Pinehurst	R&P 1400AB TEOM PM10	Continuous		Active
Pinehurst	Meteorological Tower	Continuous		Active
Sandpoint U of I Extension Office	Meteorological Tower	Continuous		Active
Sandpoint USFS	R&P 1400A TEOM PM2.5	Continuous		Active
Sandpoint USFS	R&P 1400AB TEOM PM10	Continuous		Active
Lakes Middle School - CdA	R&P 1400AB TEOM PM2.5	Continuous		Site shut down
Porthill International Border Site	Radiance Research Nephelometer /wind speed & direction	Continuous	CRB Seasonal	Active
Athol	Radiance Research Nephelometer	Continuous	CRB Seasonal	Active
Mt. Hall – Boundary County	Radiance Research Nephelometer	Continuous	CRB Seasonal	Active
Rathdrum	Radiance Research Nephelometer	Continuous	CRB Seasonal	Active

All eligible active samplers for this month (17) achieved the required data completeness collection efficiency.

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AIR QUALITY INDEX

The air quality index is a tool used to convey information to the public regarding local levels of air pollution and the associated health concerns. These levels are depicted in the table below.

Air Quality Index (AQI): Particle Pollution

Index Values	Levels of Health Concern	Cautionary Statements
0-50	Good	None
51-100	Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
101-150	Unhealthy for Sensitive Groups	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion.
151-200	Unhealthy	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion.
201-300	Very Unhealthy	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
301-500	Hazardous	People with heart or lung disease, older adults, and children should remain indoors and keep activity levels low. Everyone else should avoid all physical activity outdoors.

Below is a table showing the total weekday PM-2.5 Air Quality Index (AQI) values for each of the reporting cities located in North Idaho for this reporting month. Differences in totals were due to sampler down time.

September 2009

Coeur d'Alene	Pinehurst	Sandpoint	St. Maries
Green = 20	Green = 11	Green = 19	Green = 20
Yellow = 0	Yellow = 91	Yellow = 2	Yellow = 0
Orange = 0	Orange = 0	Orange = 0	Orange = 0

2009 YEAR TO DATE AQI TOTALS

Coeur d'Alene	Pinehurst	Sandpoint	St. Maries
Green = 199 (97%)	Green = 149 (70%)	Green = 204 (97%)	Green = 196 (98%)
Yellow = 7 (3%)	Yellow = 60 (28%)	Yellow = 6 (3%)	Yellow = 3 (2%)
Orange = 0	Orange = 4 (2%)	Orange = 0	Orange = 0

For further information about air quality in Idaho and the northwest region visit the following sites on the Internet or contact Ralph Paul, Coeur d'Alene Region Airshed Coordinator, at 208.769.1422

<http://www.deq.idaho.gov/>

www.deq.idaho.gov/air/aqindex.cfm

www.airnow.gov/index.cfm?action=airnow.fcsummary&stateid=16