

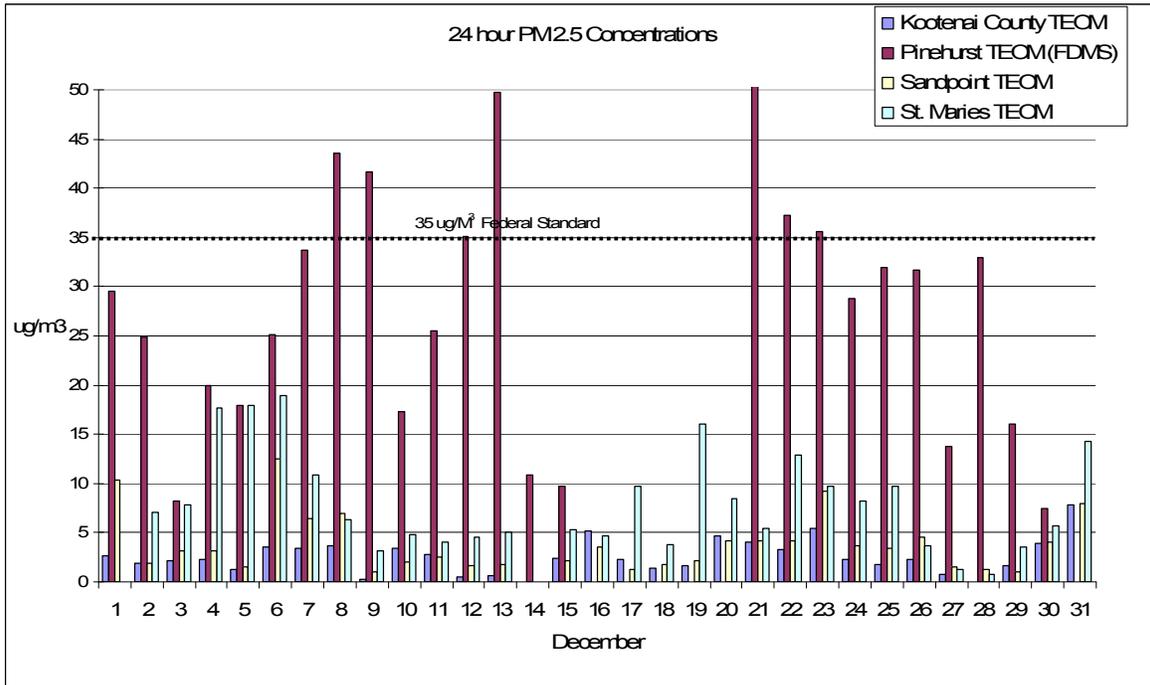
North Idaho Air Quality Summary – December 2010

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 December 2010.

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, Pinehurst, Sandpoint, and St. Maries and on Lancaster Road in Kootenai County. Cold weather combined with increased use of woodstoves, contributed to pollutant level buildup in some areas during the month.



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, Idaho DEQ uses Federal Reference Method (FRM) filter based sample measurements exclusively to determine NAAQS compliance. Depiction of continuous monitoring in the table below is for reporting purposes only.

Region	Highest Reading	Date
Kootenai TEOM	December 31	7.8
Pinehurst TEOM	December 21	57.1
Sandpoint TEOM	December 6	12.5
St. Maries TEOM	December 6	19.0

North Idaho Air Quality Summary – December 2010

PM2.5 FEDERAL REFERENCE METHOD (FRM) DATA

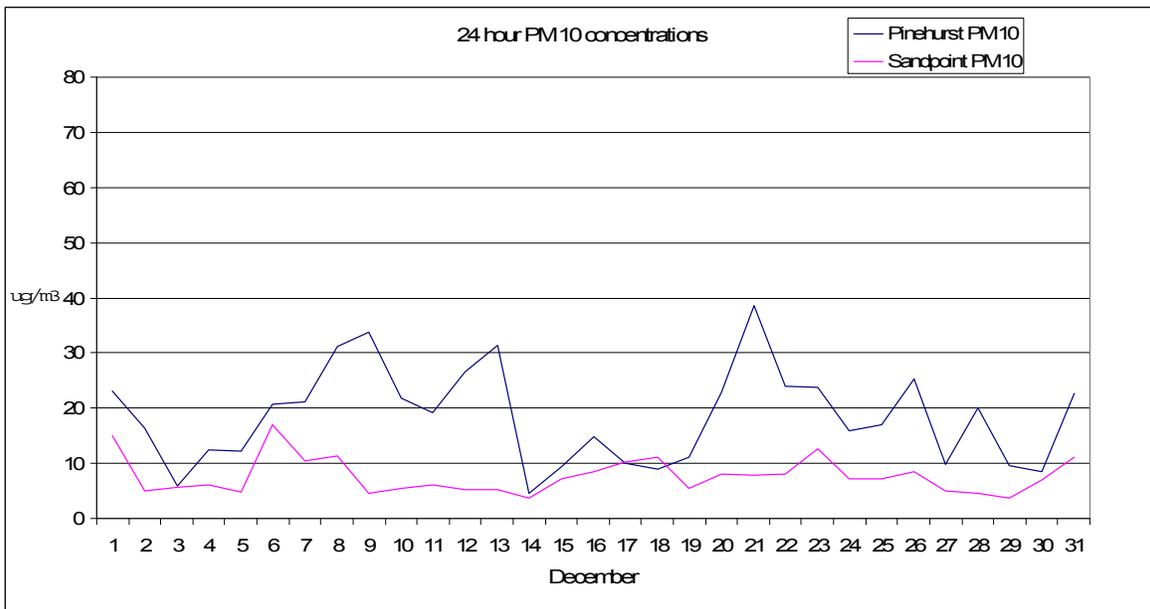
At this time Idaho DEQ uses the Federal Reference Method Sampler (filter based) measurements for NAAQS compliance determination. This method requires that 75% of available data be collected per quarter. Other filter processing requirements are applicable to this method. The Coeur d'Alene Regional Office's collection efficiency rate for December is shown in the table below.

September FRM filter recovery Efficiency

Site	Sample Days	Valid Samples	Collection Percentage
Pinehurst	31	30	97%
Pinehurst Precision	5	4	80%
St. Maries	5	5	100%

PM10 CONTINUOUS DATA

The graph below shows the 24 hour values for PM10. No apparent exceedances of the 150 $\mu\text{g}/\text{m}^3$ standard have occurred over this reporting period.



North Idaho Air Quality Summary – December 2010

Page 3 of 5

OZONE DATA

Ozone monitoring in the Coeur d'Alene area occurs each summer ozone season, from April 1 to September 30. A review of the 2010 season is currently underway. Monitoring will start again on April 1, 2011.

North Idaho Air Quality Summary – December 2010

NETWORK INFORMATION

The table below summarizes all active and inactive air quality samplers located within the North Idaho area during the month of December 2010.

Site	Monitor	Type	Comments	Current Status	Data Completeness
Lancaster / Rathdrum Prairie	API 200E Nitrogen Oxides analyzer	Continuous	Seasonal	Inactive	0%
Lancaster / Rathdrum Prairie	API 400 Ozone (O3) analyzer	Continuous	Seasonal	Inactive	0%
Lancaster / Rathdrum Prairie	R&P 1400A TEOM PM2.5	Continuous		Active	99%
Lancaster / Rathdrum Prairie	Meteorological Tower	Continuous		Active	99%
St. Maries	R&P 1400AB TEOM PM2.5	Continuous		Active	98%
St. Maries	Thermo Model 2025 FRM PM2.5	Filter		Active	100%
Pinehurst	R&P 8500 FDMS TEOM PM2.5	Continuous		Active	81%
Pinehurst	Thermo Model 2025 FRM PM2.5	Filter		Active	97%
Pinehurst	R & P Model 2025 FRM PM2.5	Filter	Precision	Active	80%
Pinehurst	Met One BAM1020 PM2.5	Continuous	Special Study	Active	99%
Pinehurst	R&P 1400AB TEOM PM10	Continuous		Active	98%
Pinehurst	Meteorological Tower	Continuous		Active	99%
Sandpoint U of I Extension Office	Meteorological Tower	Continuous		Active	99%
Sandpoint USFS	R&P 1400A TEOM PM2.5	Continuous		Active	99%
Sandpoint USFS	R&P 1400AB TEOM PM10	Continuous		Active	99%
Porthill International Border Site	Radiance Research Nephelometer /wind speed & direction	Continuous	CRB Seasonal	Inactive	0%
Athol	Radiance Research Nephelometer	Continuous	CRB Seasonal	Inactive	0%
Mt. Hall School	Radiance Research Nephelometer	Continuous	CRB Seasonal	Inactive	0%
Garwood Elementary	Radiance Research Nephelometer	Continuous	CRB Seasonal	Inactive	0%

During December 13 of 13 active samplers achieved 75% or greater data completeness.

The monitoring network was functioning well this month with the exception of the Pinehurst FDMS TEOM. The missing data for the FDMS TEOM was caused by the annual replacement of some parts and leaks that developed in the system. All issues have been repaired.

North Idaho Air Quality Summary – December 2010

Page 5 of 5

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 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.

December 2010

Coeur d'Alene	Pinehurst	Sandpoint	St. Maries
Green = 19	Green = 3	Green = 20	Green = 17
Yellow = 0	Yellow = 13	Yellow = 0	Yellow = 3
Orange = 0	Orange = 4	Orange = 0	Orange = 0

2010 YEAR TO DATE AQI TOTALS

Coeur d'Alene	Pinehurst	Sandpoint	St. Maries
Green = 244(99%)	Green = 173 (74%)	Green = 235 (99%)	Green = 185 (84.5%)
Yellow = 3 (1%)	Yellow = 55 (23%)	Yellow = 2 (0.5%)	Yellow = 33 (15%)
Orange = 0	Orange = 7 (3%)	Orange = 1 (0.5%)	Orange = 1 (0.5%)

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