

North Idaho Air Quality Summary – December 2014

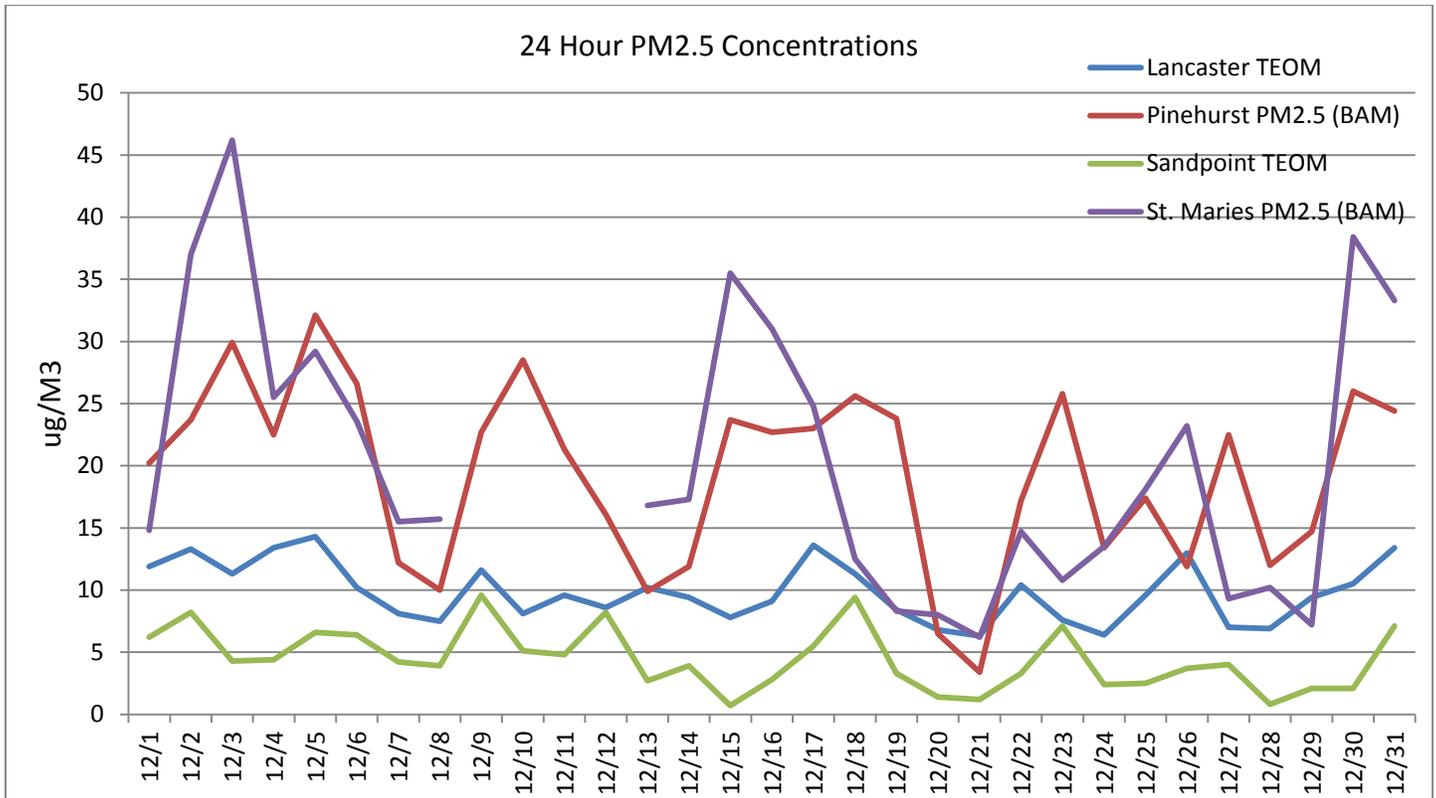
This summary of North Idaho’s air quality is compiled from the various air quality samplers located in the Department of Environmental Quality’s Coeur d’Alene Region for the month of December 2014.

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 and is therefore subject to change.

PM2.5 CONTINUOUS DATA

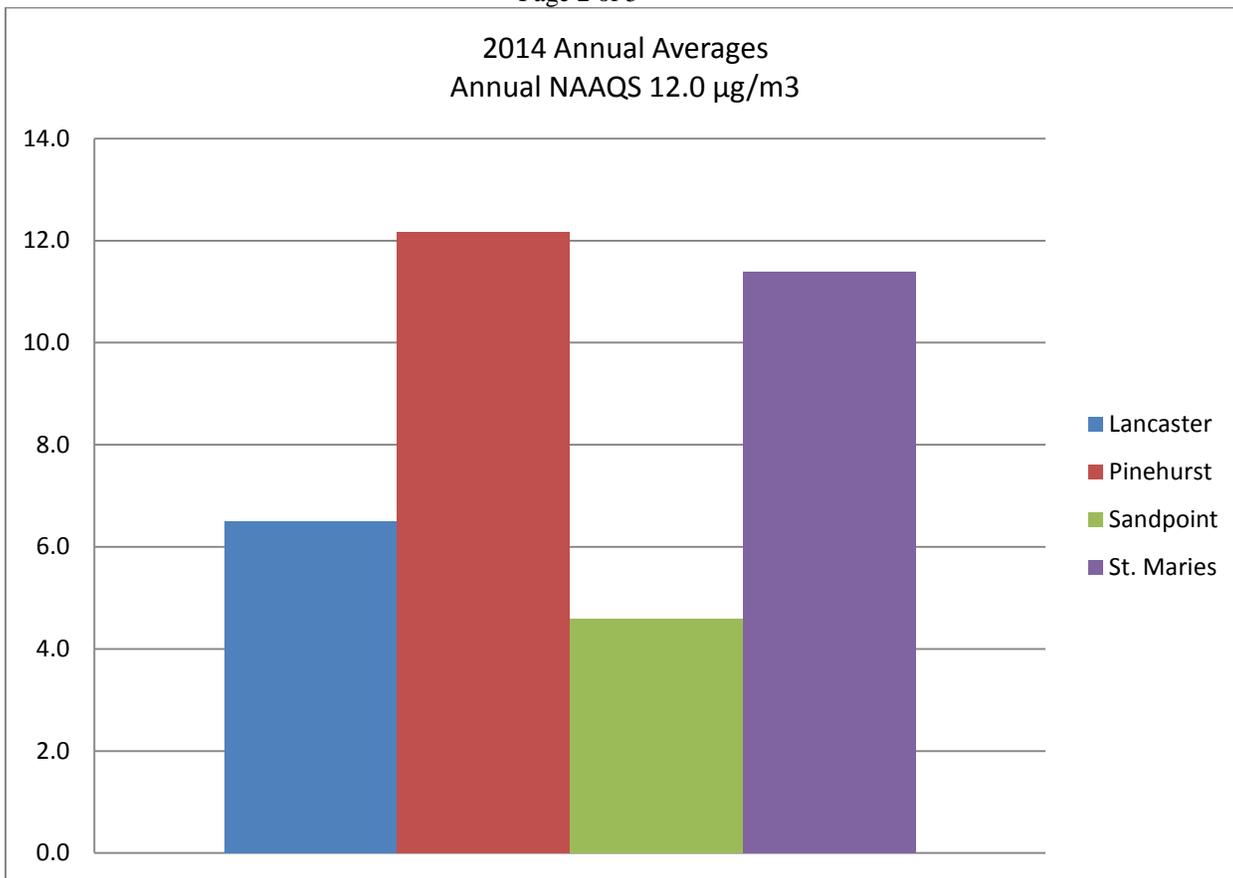
The graph below displays the average daily 24-hour PM_{2.5} values for the month and is expressed in micrograms per cubic meter, (µg/m³). These values were calculated by averaging hourly values midnight to midnight from the agency’s PM_{2.5} TEOM and BAM samplers located in the Cities of Pinehurst, Sandpoint,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

The 24 hour PM2.5 NAAQS is 35 µg/m³. The St Maries PM2.5 monitor experienced a malfunction which caused the loss of data for four days.



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The chart above shows the annual averages for each site. This is preliminary data and subject to change.

The table below shows the maximum 24 hour values calculated from continuous TEOM and BAM monitoring for this reporting period. The National Ambient Air Quality Standard (NAAQS) for PM_{2.5} is 35 µg/m³ for a 24 hour average. Depiction of preliminary continuous monitoring data in the table below is for informational purposes only and is considered preliminary data.

Monitoring Site	Highest Reading (µg/m ³)	Date
Lancaster TEOM	14.3	December 5
Pinehurst BAM	32.1	December 5
Sandpoint TEOM	9.6	December 9
St. Maries BAM	46.2	December 3

PM_{2.5} FEDERAL REFERENCE METHOD (FRM) DATA

At this time the Coeur d'Alene Regional Office of Idaho DEQ uses the Federal Reference Method Sampler (filter based) measurements for NAAQS compliance determination at the Pinehurst and St. Maries monitoring site. 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 November is shown in the table below. The collection percentage could change based on quality assurance requirements yet to be completed.

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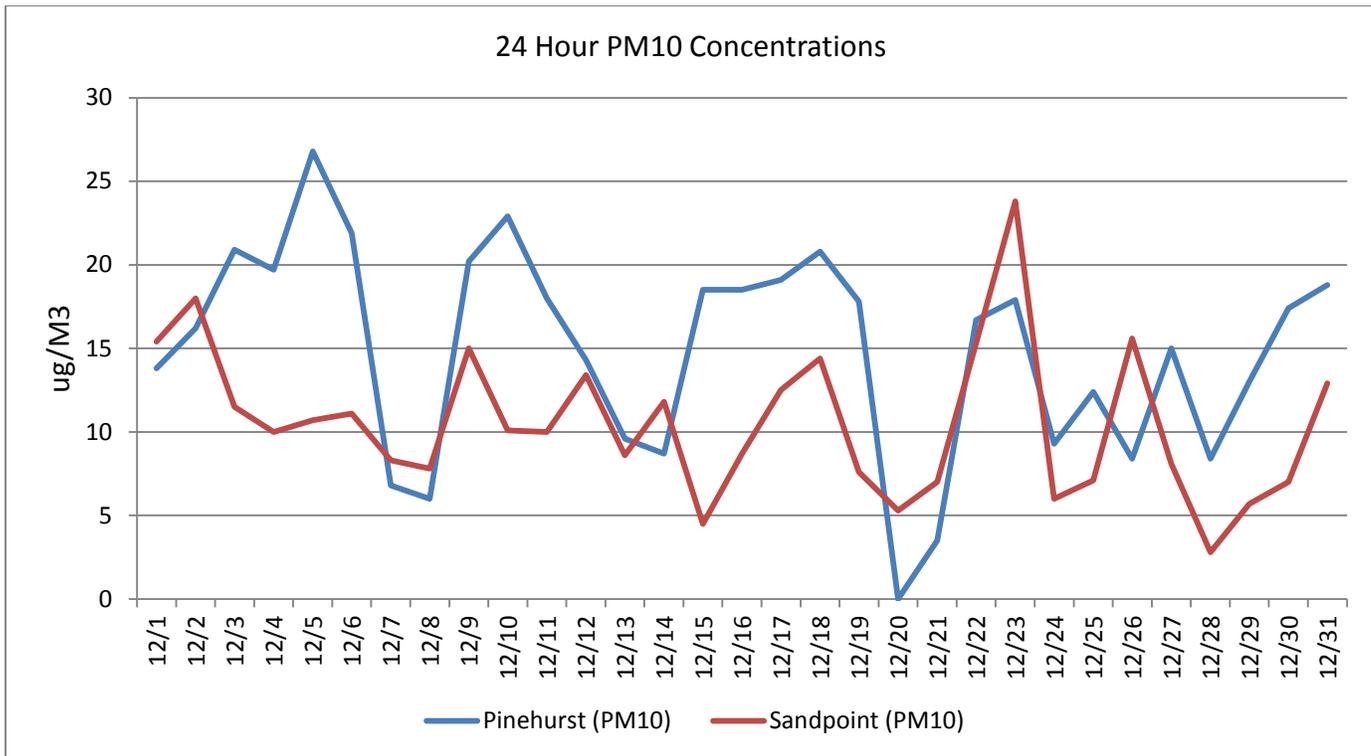
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December FRM filter recovery Efficiency

Site	Sample Days	Valid Samples	Collection Percentage
Pinehurst	31	31	100%
St. Maries	6	6	100%

PM10 CONTINUOUS DATA

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



Air Quality Actions

No Air Quality Alert and Stage 1 Burn Bans were issued during the month of December. The National Weather Service did issued several air stagnation advisories in some areas due to calm winds and poor atmospheric mixing brought on by high pressure systems. Yellow AQA's were initiated in Pinehurst at various times throughout the month. The first was issued on December 1 and ran until December 4. Another yellow advisory was issued on December 24 and ran through December 26th.

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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 December 2014.

Site	Monitor	Type	Comments	Current Status	Data Completeness
Lancaster / Rathdrum Prairie	R&P 1400A TEOM PM2.5	Continuous		Active	100%
Lancaster / Rathdrum Prairie	Meteorological Tower	Continuous		Active	100%
St. Maries	PM2.5 BAM	Continuous		Active	87%
St. Maries	Thermo Model 2025 FRM PM2.5	Filter		Active	100%
Pinehurst	Thermo Model 2025 FRM PM2.5	Filter		Active	100%
Pinehurst	PM2.5 BAM	Continuous		Active	99%
Pinehurst	R&P 1400AB TEOM PM10	Continuous		Active	99%
Pinehurst	Meteorological Tower	Continuous		Active	100%
Sandpoint U of I Extension Office	Meteorological Tower	Continuous		Active	100%
Sandpoint U of I Extension Office	R&P 1400A TEOM PM2.5	Continuous		Active	99%
Sandpoint U of I Extension Office	R&P 1400AB TEOM PM10	Continuous		Active	99%
Lakes Management Plan	Meteorological Tower	Continuous		Active	100%
3 Meter G C Met	Meteorological Tower	Continuous		Active	100%
Porthill International Border Site	Radiance Research Nephelometer /wind speed & direction	Continuous	CRB Seasonal	Inactive	NA
Porthill International Border Site	MET One E-Sampler	Continuous	CRB Seasonal	Inactive	NA
Athol	Radiance Research Nephelometer	Continuous	CRB Seasonal	Inactive	NA
Mt. Hall School	Radiance Research Nephelometer	Continuous	CRB Seasonal	Inactive	NA
Garwood Elementary	Radiance Research Nephelometer	Continuous	CRB Seasonal	Inactive	NA

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

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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 outdoors.
101-150	Unhealthy for Sensitive Groups	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion outdoors.
151-200	Unhealthy	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion outdoors. 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 2014

Coeur d'Alene	Pinehurst	Sandpoint	St. Maries
Green = 16	Green = 3	Green = 19	Green = 1
Yellow = 3	Yellow = 16	Yellow = 0	Yellow = 4
Orange = 0	Orange = 0	Orange = 0	Orange = 1
Red = 0	Red = 0	Red = 0	Red = 0

2014 YEAR TO DATE AQI TOTALS

Coeur d'Alene	Pinehurst	Sandpoint	St. Maries
Green = 203(88%)	Green = 133 (61%)	Green =201(93%)	Green = 136 (70%)
Yellow = 28 (12%)	Yellow = 77 (35%)	Yellow =16 (7%)	Yellow = 52 (27%)
Orange = 0	Orange = 7 (3%)	Orange = 0	Orange = 7 (3%)
Red = 0	Red = 1(1%)	Red =0	Red = 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/>

<http://www.deq.idaho.gov/daily-air-quality-reports-forecasts>

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