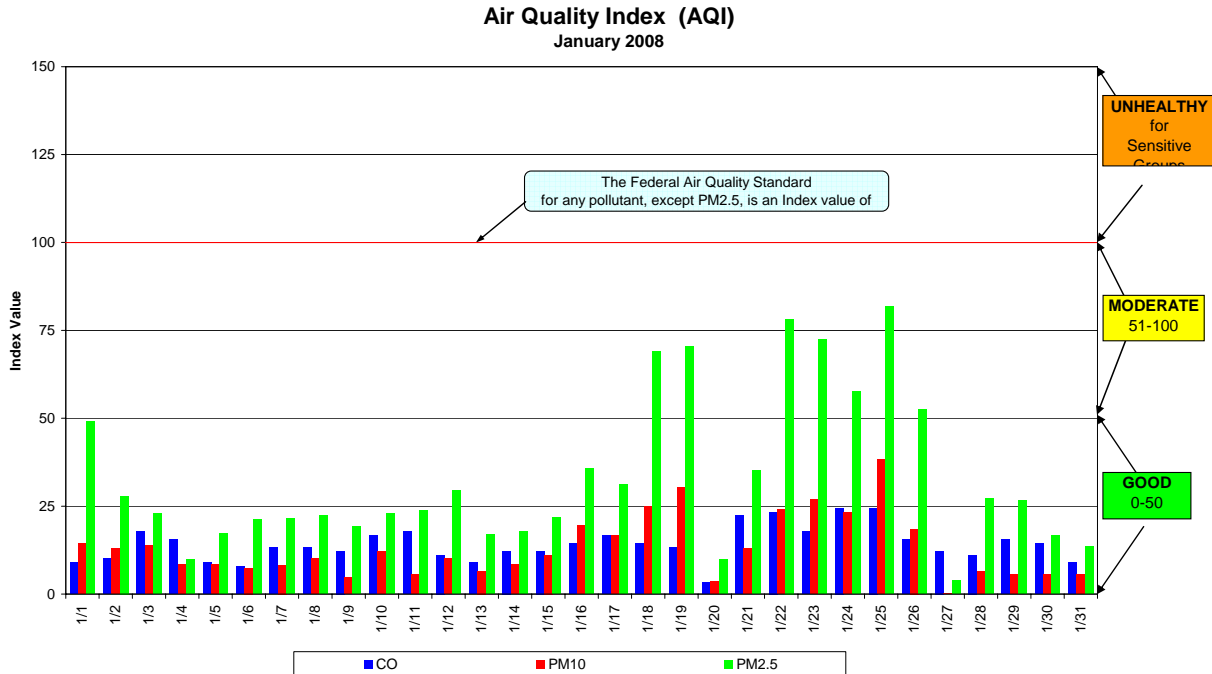


Spokane Regional Clean Air Agency Air Quality Report January 2008

The chart below shows the daily maximum Air Quality Index (AQI) for January 2008. Carbon Monoxide (CO), particulate matter (PM₁₀ and PM_{2.5}), and ozone (O₃) are the criteria air pollutants defined by the US EPA that are monitored in the Spokane area. Air quality information is updated hourly on the Spokane Regional Clean Air Agency (SRCAA) web page (http://www.spokanecleanair.org/air_quality.asp). There were no measured exceedances of federal air quality standards in January. Ozone monitoring ended September 30, 2007 and will resume May 1, 2008.



The following table contains the maximum AQI values for each pollutant for January. A table summarizing the daily AQIs by category follows on the next page.

Maximum AQI values and pollutant concentrations for this reporting period

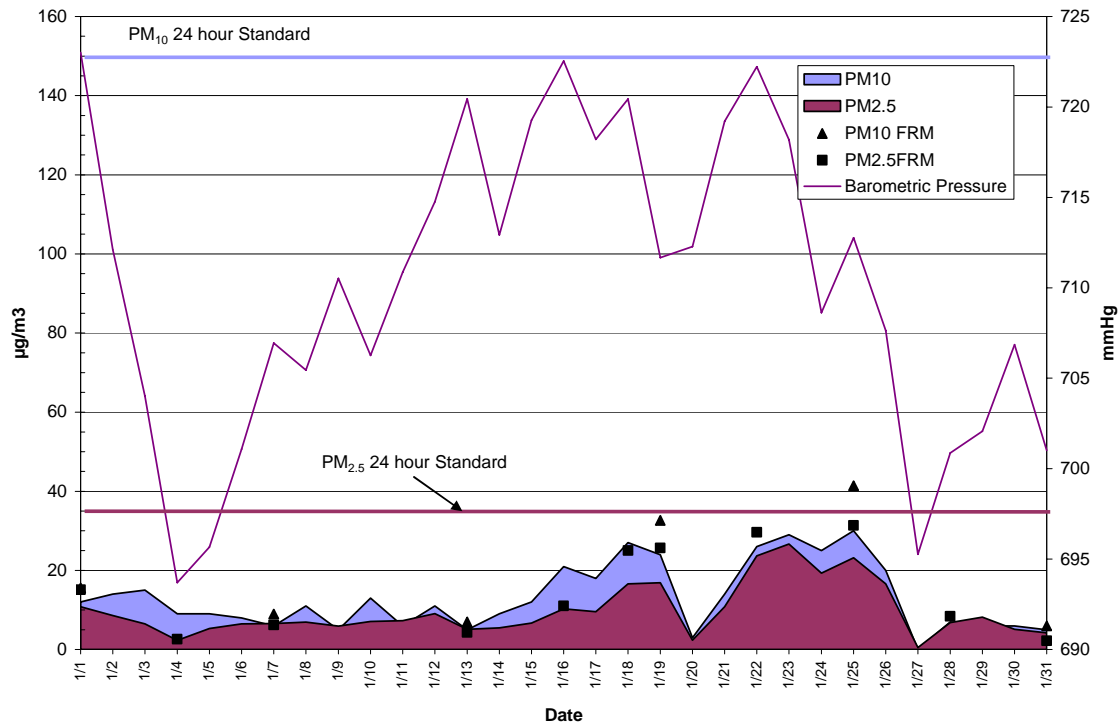
Pollutant	AQI/Concentration	Location	Date
CO	24/2.2 ppm	3 rd & Washington	1/24/08 and 1/25/08
PM ₁₀	38/41 µg/m ³	Freya & Ferry	1/25/08
PM _{2.5}	82/31.4 µg/m ³	Freya & Ferry	1/25/08

AQI Summary as of January 31, 2008

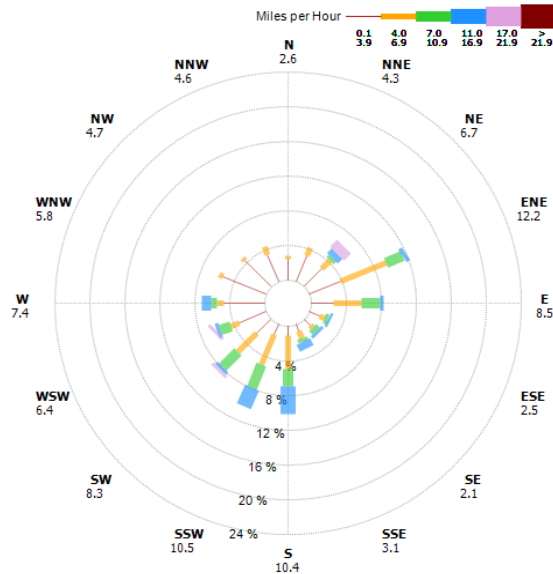
Category	Number of Days This Year	Last Year to Date
Good (0-50)	24	18
Moderate (51-100)	7	13
Unhealthy for Sensitive Groups (101-150)	0	0
Unhealthy (151-200)	0	0
Very Unhealthy (201-300)	0	0
Hazardous (>300)	0	0

The next chart compares the mass concentrations of PM₁₀ and PM_{2.5} measured at the Freya & Ferry monitoring site. The site is located in a commercial/light industrial area on the eastern side of the City of Spokane. The data shown in solid colors were obtained using Tapered Element Oscillating Microbalance (TEOM) continuous analyzers. The TEOM is an automated method and provides “real time” data, which SRCAA uses in its day-to-day programs, e.g., air quality forecasting and burning curtailment. The manually-operated Federal Reference Method (FRM) is the “gold-standard” for measurement of the 24-hour average particulate matter concentration and meets the requirements for demonstrating attainment of federal air quality standards. The accuracy of the TEOM sample data can be verified by comparison with co-located FRM data. The correlation (r^2) between the TEOM and FRM data for January was 1.0 for PM₁₀ and 0.98 for PM_{2.5}. Despite the strong linear correlation between the TEOM and FRM data for both PM₁₀ and PM_{2.5}, the TEOMs were significantly under-reporting at higher PM concentrations, on some days by about 27%. Particulate matter concentrations in January appear to have been linked to barometric pressure, as the pattern of PM concentrations compared to barometric pressure on the chart shows.

Freya & Ferry Particulate Matter Data
24hr Average Daily Maximum



The wind rose below summarizes hourly average wind speeds (mph) and directions (degrees) measured at the Freya and Ferry Site in January.



Hour Average Wind Speed
Spokane E Ferry ~ 721 Observations
01 Jan 2008 through 31 Jan 2008

The table below summarizes the air quality data for January from all of the analyzers operated in Spokane County. The CO data are 8-hour maximums in parts per million (ppm) and the PM data are 24-hour averages in micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$).

Date	CO 3rd & Washington (ppm)	PM10 Freya & Ferry TEOM ($\mu\text{g}/\text{m}^3$)	PM10 Freya & Ferry FRM ($\mu\text{g}/\text{m}^3$)	PM2.5 Freya & Ferry TEOM ($\mu\text{g}/\text{m}^3$)	PM2.5 Freya & Ferry FRM ($\mu\text{g}/\text{m}^3$)	PM10 Monroe & College TEOM ($\mu\text{g}/\text{m}^3$)	PM10 Monroe & College FRM ($\mu\text{g}/\text{m}^3$)	PM2.5 Monroe & College TEOM ($\mu\text{g}/\text{m}^3$)	PM2.5 Monroe & College FRM ($\mu\text{g}/\text{m}^3$)	PM2.5 Monroe & Wellesley Nephelometer ($\mu\text{g}/\text{m}^3$)	PM10 Turnbull Wildlife Refuge FRM ($\mu\text{g}/\text{m}^3$)	PM2.5 Turnbull Wildlife Refuge ($\mu\text{g}/\text{m}^3$)	PM10 Liberty Lake ($\mu\text{g}/\text{m}^3$)	PM10-2.5 Liberty Lake ($\mu\text{g}/\text{m}^3$)	PM2.5 Liberty Lake ($\mu\text{g}/\text{m}^3$)	PM2.5 Deer Park TEOM ($\mu\text{g}/\text{m}^3$)	PM2.5 Spokane Valley TEOM ($\mu\text{g}/\text{m}^3$)	PM2.5 Airway Height TEOM ($\mu\text{g}/\text{m}^3$)
1/1/08	0.8	12.0	15.6	10.8	15.1	11.0	13.8	10.0	11.5	13.6	6.7	5.3	7.5	2.5	5.0			
1/2/08	0.9	14.0		8.6		10.7		8.3		8.9								
1/3/08	1.6	15.0		6.5		10.3		7.1		7.4								
1/4/08	1.4	9.0		2.3	2.6	4.6		3.0		2.6								
1/5/08	0.8	9.0		5.3		6.6		5.1		3.4								
1/6/08	0.7	8.0		6.5		6.3		5.4		6.8								
1/7/08	1.2	6.0	9.0	6.6	6.2	5.6	7.0	5.7	4.0	6.9	3.6		4.5	2.1	2.4			
1/8/08	1.2	11.0		6.9		6.7		6.6		7.8								
1/9/08	1.1	5.0		5.9		2.2		4.4		7.1								
1/10/08	1.5	13.0		7.1		4.2		5.7		7.6								
1/11/08	1.6	6.0		7.3		5.1		4.3		4.8								
1/12/08	1.0	11.0		9.1		8.7		8.0		12.8								
1/13/08	0.8	5.0	7.0	5.1	4.3	5.8	7.1	5.2	4.3	7.7	4.4	2.0	4.9	1.9	3.0			
1/14/08	1.1	9.0		5.5		5.5		5.4		6.5								
1/15/08	1.1	12.0		6.7		6.9		3.6		4.3						5.3		
1/16/08	1.3	21.0		10.3	11.0	9.1		4.8		6.1						9.7		
1/17/08	1.5	18.0		9.6		11.3		6.5		9.6						12.6		
1/18/08	1.3	27.0		16.6	25.0	20.7		14.1		18.7						16.0	14.3	
1/19/08	1.2	24.0	32.7	16.9	25.7	17.5	27.3	13.7	20.9	20.1	8.5	5.8	16.7	5.6	11.1	15.2	15.6	
1/20/08	0.3	3.0		2.4		4.0		3.0		4.9						3.4	4.1	
1/21/08	2.0	14.0		10.8		9.2		7.4		11.3						17.2	9.9	
1/22/08	2.1	26.0		23.7	29.6	14.7		13.3		22.4						16.1	20.7	
1/23/08	1.6	29.0		26.7		15.8		15.1		25.8						15.8	25.2	
1/24/08	2.2	25.0		19.3		14.9		13.7		18.9						10.8	30.5	
1/25/08	2.2	30.0	41.4	23.2	31.4	18.8	29.4	15.3	21.3	21.2	10.4	7.6	24.8	9.1	15.7	16.4	26.2	
1/26/08	1.4	20.0		16.6		17.4		16.7		19.2						19.5	16.7	20.8
1/27/08	1.1	0.0		0.5		0.1		1.2		4.8						1.9	0.3	11.6
1/28/08	1.0	7.0		6.8	8.4	4.8		6.1		9.4						8.3	8.0	2.4
1/29/08	1.4	6.0		8.2		4.9		5.6		8.6						8.7	3.6	7.9
1/30/08	1.3	6.0		5.1		2.8		3.7		3.6						6.8	4.2	4.2
1/31/08	0.8	5.0	6.0	4.2	2.2	0.9	2.5	2.8	1.1	2.0			4.3	3.0	1.3	1.9	2.2	4.2