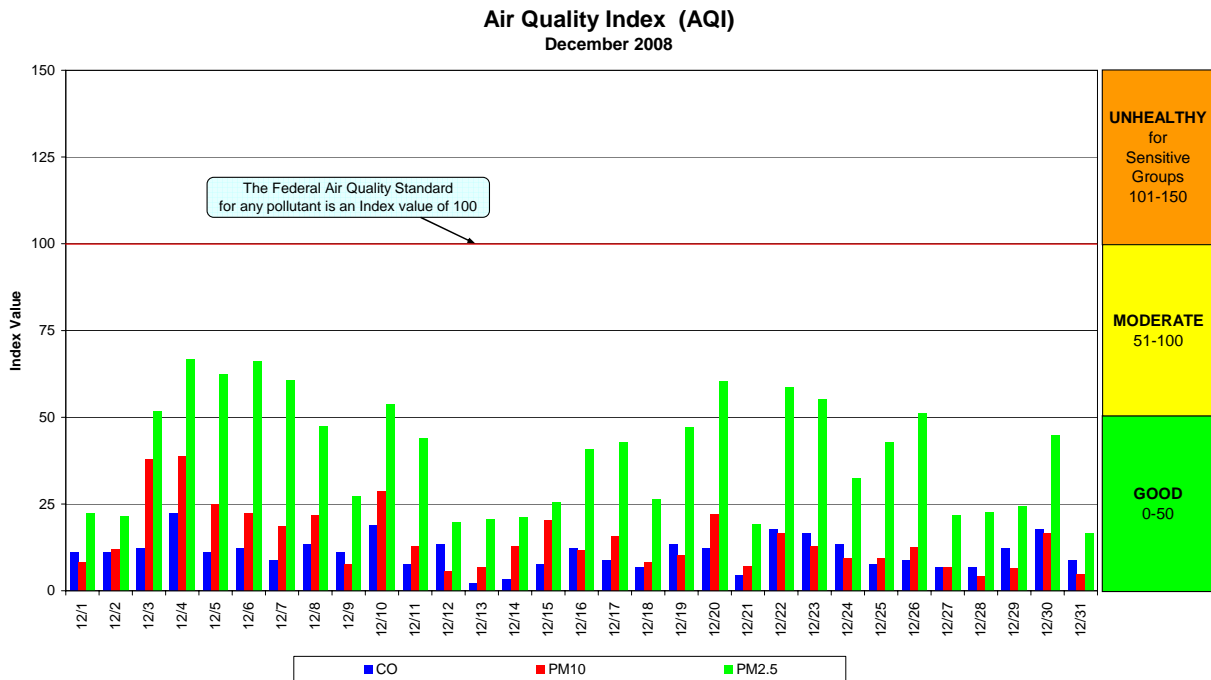


Spokane Regional Clean Air Agency Air Quality Report December 2008

The Clean Air Act requires EPA to set National Ambient Air Quality Standards (NAAQS) for six common air pollutants, carbon Monoxide (CO), particulate matter (PM₁₀ and PM_{2.5}), ground-level ozone (O₃), nitrogen dioxide (NO₂) and lead (Pb). These are known as “criteria” pollutants because EPA established permissible concentrations in ambient air using human health or environmentally based criteria. These pollutants, with the exception of nitrogen dioxide and lead, are monitored in Spokane County. Ozone monitoring ended September 30 and will resume May 1, 2009. Air quality information is updated hourly on the Spokane Regional Clean Air Agency (SRCAA) web page (http://www.spokanecleanair.org/air_quality.asp).

The chart below shows the daily maximum Air Quality Index (AQI) for each pollutant for December 2008. An index value above 100 indicates that the concentration of at least one criteria pollutant exceeded the limit established in the NAAQS.



The following table contains the maximum AQI values for each pollutant for the current month and to date for the year. 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	22/2 ppm	3 rd & Washington	12/4
PM ₁₀	39/42 µg/m ³	Freya & Ferry	12/4
PM _{2.5}	67/22.2 µg/m ³	E Broadway & N Glenn	12/4

Maximum AQI values and pollutant concentrations to date

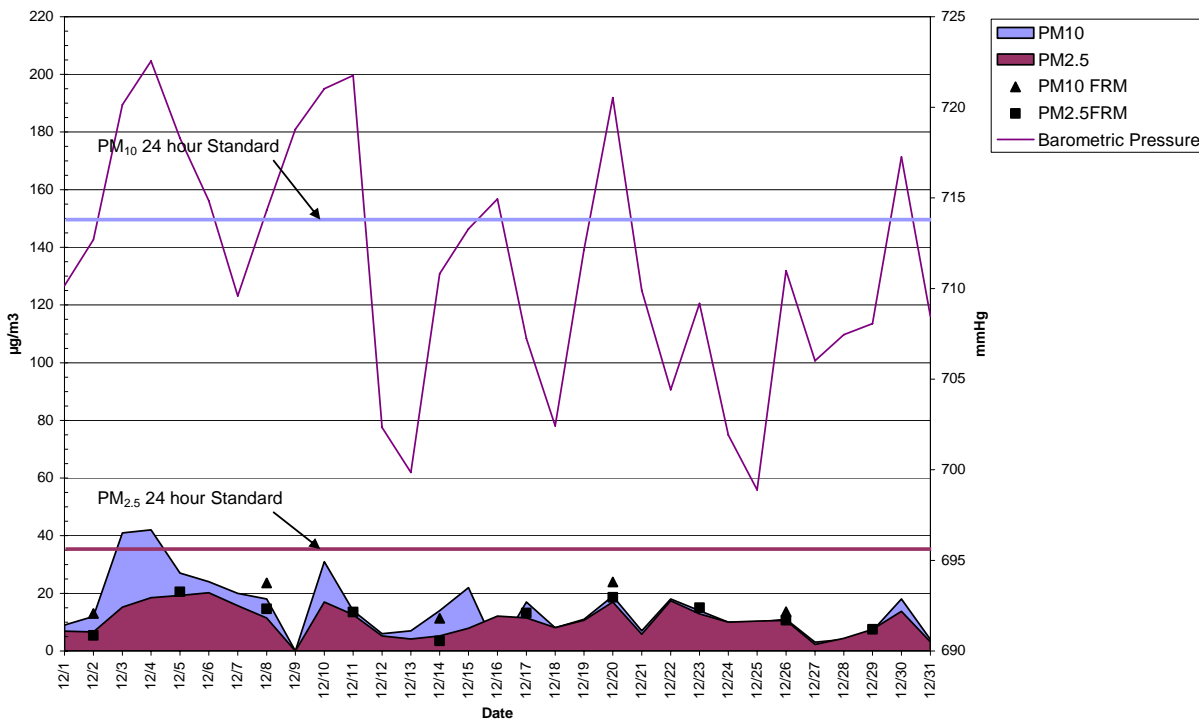
Pollutant	AQI/Concentration	Location	Date
CO	30/2.7 ppm	3 rd & Washington	11/17
PM ₁₀	125/204 µg/m ³	Freya & Ferry	8/18
PM _{2.5}	87/34 µg/m ³	Freya & Ferry	11/17
O ₃	66/0.064 ppm	Greenbluff/Turnbull	7/21

AQI Summary as of December 31, 2008

Category	Number of Days This Year (Leap Year)	Last Year to Date
Good (0-50)	311	300
Moderate (51-100)	53	65
Unhealthy for Sensitive Groups (101-150)	1	0
Unhealthy (151-200)	0	0
Very Unhealthy (201-300)	0	0
Hazardous (>300)	0	0

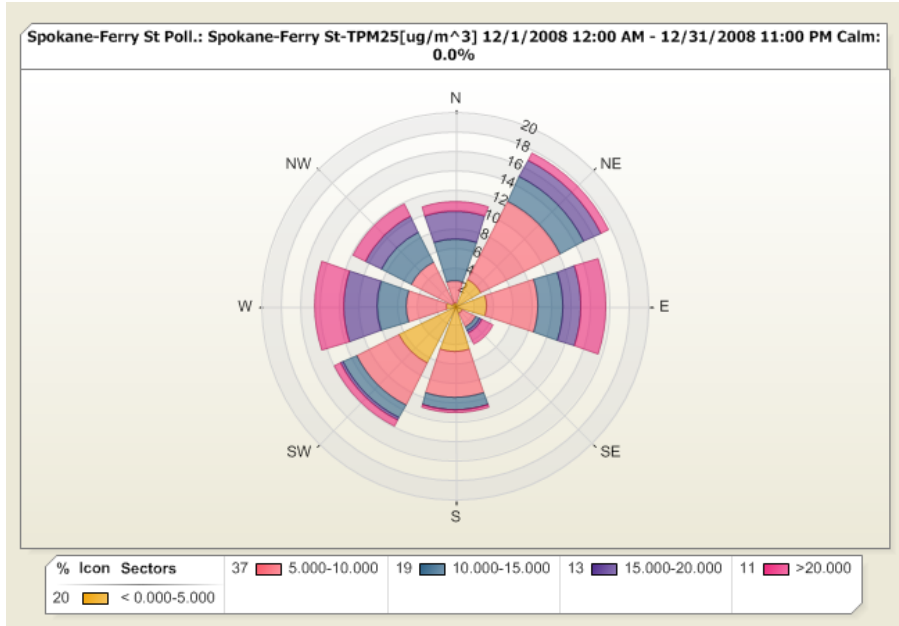
The next chart compares the mass concentrations of PM₁₀ and PM_{2.5} measured at the Freya & Ferry monitoring site. The site is located in a commercial/light industrial area on the eastern side of the City of Spokane. The data shown in solid colors were obtained using Tapered Element Oscillating Microbalance (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 (r²) between the TEOM and FRM data for December was 0.90 for PM₁₀ and 0.98 PM_{2.5}.

**Freya & Ferry Particulate Matter Data
24hr Average Daily Maximum**

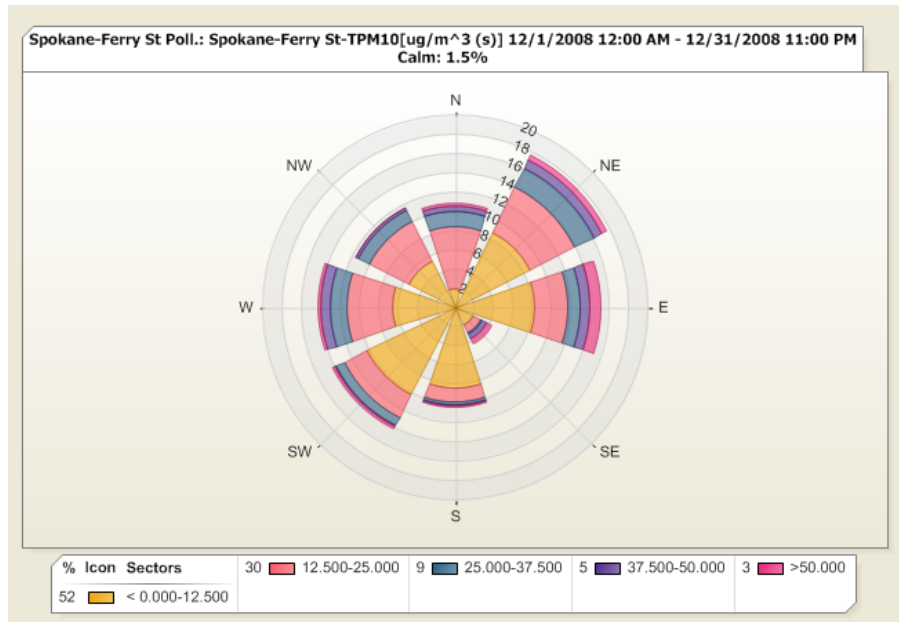


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The pollution rose below summarizes hourly average PM_{2.5} concentrations (µg/m³) and hourly average wind directions (degrees) measured at the Freya and Ferry Site in December.

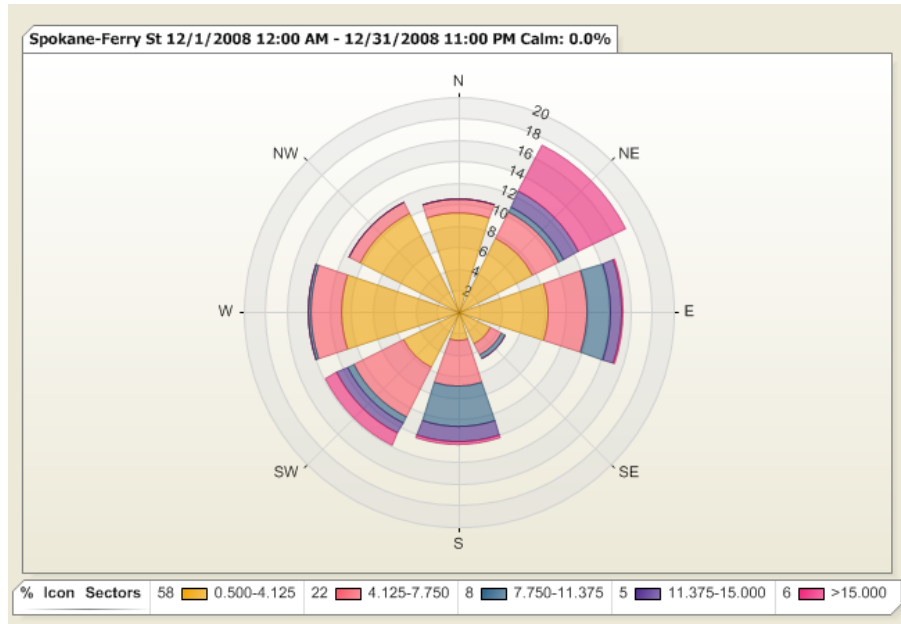


The pollution rose below summarizes hourly average PM₁₀ concentrations (µg/m³) and hourly average wind directions (degrees) measured at the Freya and Ferry Site in December.



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The wind rose below summarizes the percent time during the month the wind blew from a particular direction and in what speed range. The data are hourly averages.



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The table below summarizes the air quality data for December from all of the analyzers operated in Spokane County. The CO and 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 Heights TEOM ($\mu\text{g}/\text{m}^3$)
12/1	1	9		6.9		3.8		3.3		7.2						3.6	5.7	3.7
12/2	1	12	13	6.6	5.4	8.6	9	4.5	3.5	5	5	3.0	9.3	5.5	3.8	6.1	4.8	5
12/3	1.1	41		15.2		16.4		8.6		9.5						12.3	16.2	6.2
12/4	2	42		18.5		20.7		9.8		12.2						13.5	22.2	9.6
12/5	1	27		19.2	20.5	21.6		16.1		16.4						13.8	19.8	12.7
12/6	1.1	24		20.2		14.5		13.7		19.2						19.5	22	14.5
12/7	0.8	20		15.7		13.2		12.2		19.2						19.8	15.1	9.1
12/8	1.2	18	24	11.4	14.6	9.7	14	9	10.4	13.9	8	6.4	17.4	4.4	13.0	7.4	13.6	6.9
12/9	1					8.2		5.9		7.2						8.4	4.1	5.4
12/10	1.7	31		17		12.3		8.9		16.3						14.1	15	8.7
12/11	0.7	14		12.6	13.5	11.2		10.7		11.9						13	12.1	8
12/12	1.2	6		5.2		3.1		2.5		7.9						6.1	5.2	2.8
12/13	0.2	7		4.2		7.4		3.5		2.5						5.7	6.3	4.3
12/14	0.3	14	11	5.2	3.5	8.1	7	4.9	3.5	3.9	8	3.1	5.4	2.2	3.2	5.8	6.5	
12/15	0.7	22		7.9		9.5		6.8		5.1						6.4	7.2	
12/16	1.1			12.1		12.6		8		10.4						12.6	10.3	3.2
12/17	0.8	17		11.5	13.2	12.9		9.1		9.2						6.4	9.4	9.2
12/18	0.6	8		8.1		8.8		7.8		7.7						7.9	7.9	8
12/19	1.2	11		10.7		9.3		9		9.3						14.5	11.5	10.2
12/20	1.1	19	24	17	18.6		18	12.6		12.9	9	5.9	9.2	1.6	7.6	12.9	19.6	10.4
12/21	0.4	7		5.8		7.6		5.9		6.1						4.2	4.7	5
12/22	1.6	18		17.4		11.6		9.7		13						13.4	19	12.4
12/23	1.5	14		12.9	15.0			10.5		10.5						17.6	16.9	10.1
12/24	1.2	10		10		9.6		7.3		9.6						7.2	7	6
12/25	0.7	10		10.4		8.1		7.1		10.2						9.3	13.2	6.4
12/26	0.8	11	14	10.6	10.7	10.5	13	10.5	10.0	10	5	4.0	6.0	0.8	5.2	16	11.7	8.3
12/27	0.6	3		2.3		7.2		4		5						6.7	1.9	2.4
12/28	0.6	4		4.4		4.5		3.7		4.8						4.5	7	2.9
12/29	1.1	7		7.5	7.5	6.2		6.4		5.4						7.1	4.7	5.3
12/30	1.6	18		13.8				8.2		7.7						8.1	10	6.4
12/31	0.8	4		3.2		5.1		3.2		2.9						5.1	3.4	3
Maximum	2	42	24	20.2	20.5	21.6	18	16.1	10.4	19.2	9	6.4	17.4	5.5	13.0	19.8	22.2	14.5
Average	1.0	15.4	17.1	10.8	12.3	10.1	12.0	7.9	6.8	9.4	7.2	4.5	9.4	2.9	6.6	10.0	10.8	7.3