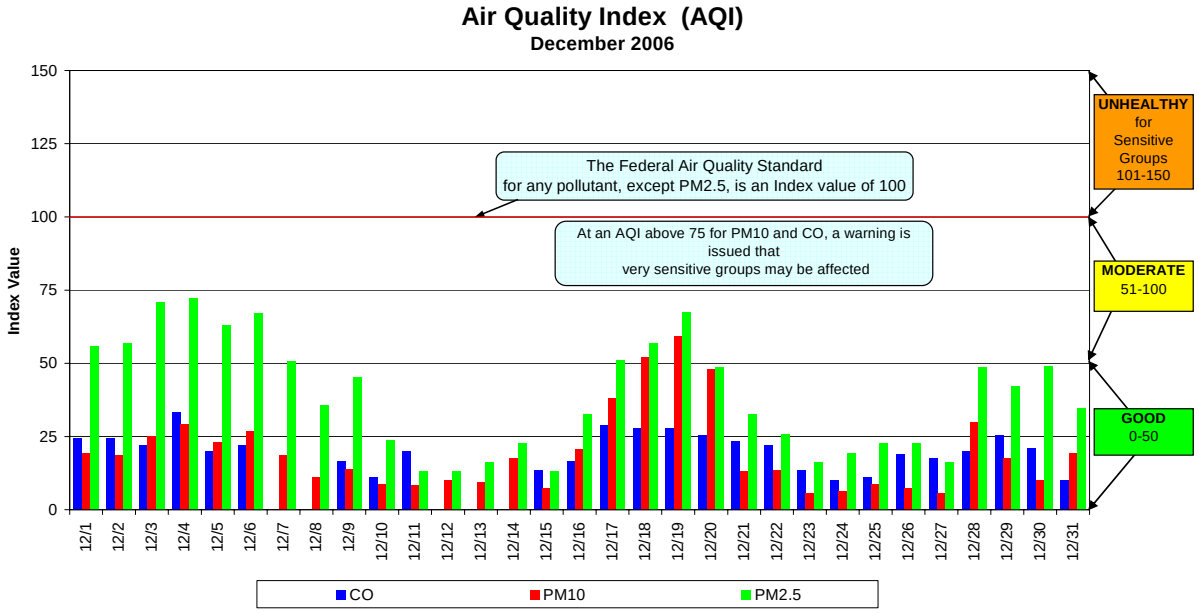
Air Quality Report December 2006

The chart below shows the maximum Air Quality Index (AQI) for the period December 1 through December 31, 2006. Carbon Monoxide (CO), particulate matter (PM_{10} and $PM_{2.5}$), and ozone (O_3) are the criteria air pollutants defined by the United States EPA that are monitored in the Spokane area and for which AQI values are calculated. The AQI information is updated hourly on the Department of Ecology and SCAPCA web page (http://www.scapca.org/air_quality.asp). There were no measured exceedances of federal air quality standards in December. Ozone monitoring ended for the year on September 30, 2006 and will resume May 1, 2007.



The following tables contain the maximum AQI values for each pollutant for December and for the year to date. A table summarizing the year to date daily AQIs by category follows on the next page.

Maximum for this reporting period

Pollutant	AQI/Concentration	Location	Date
CO	33/3.0 ppm	3rd & Washington	12/4/06
PM_{10}	59/71 µg/m^3	Freya & Ferry	12/19/06
$PM_{2.5}$	72/26.6 µg/m^3	Freya & Ferry	12/4/06

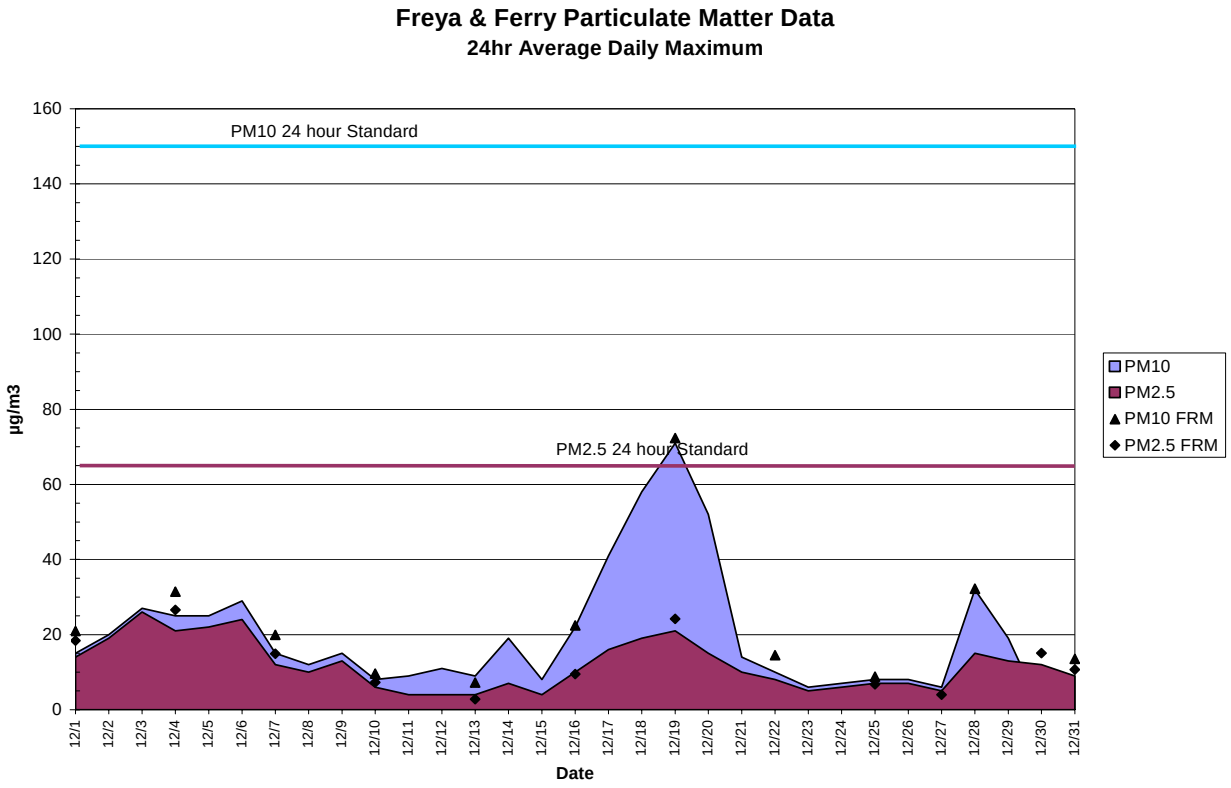
Maximum for the current year

Pollutant	AQI/Concentration	Location	Date
CO	39 / 3.5 ppm	3rd & Washington	02/8/06
PM_{10}	74/101 µg/m^3	Freya & Ferry	08/29/06
$PM_{2.5}$	97/39 µg/m^3	Monroe & College	09/6/06
O_3	80/0.077 ppm	Greenbluff	09/7/06

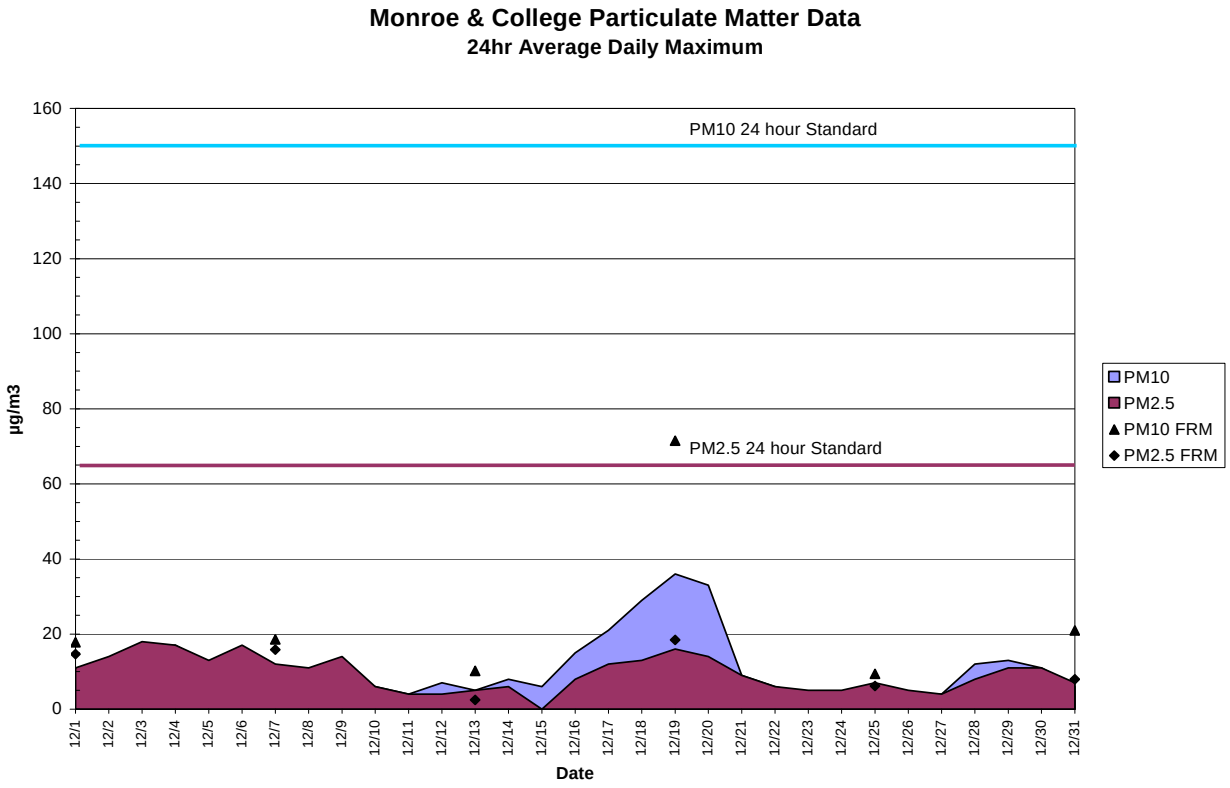
AQI Summary as of December 31, 2006

Category	Number of Days This Year	Last Year to Date
Good (0-50)	295	291
Moderate (51-100)	70	73
Unhealthy for Sensitive Groups (101-150)	0	1
Unhealthy (151-200)	0	0
Very Unhealthy (201-300)	0	0
Hazardous (>300)	0	0

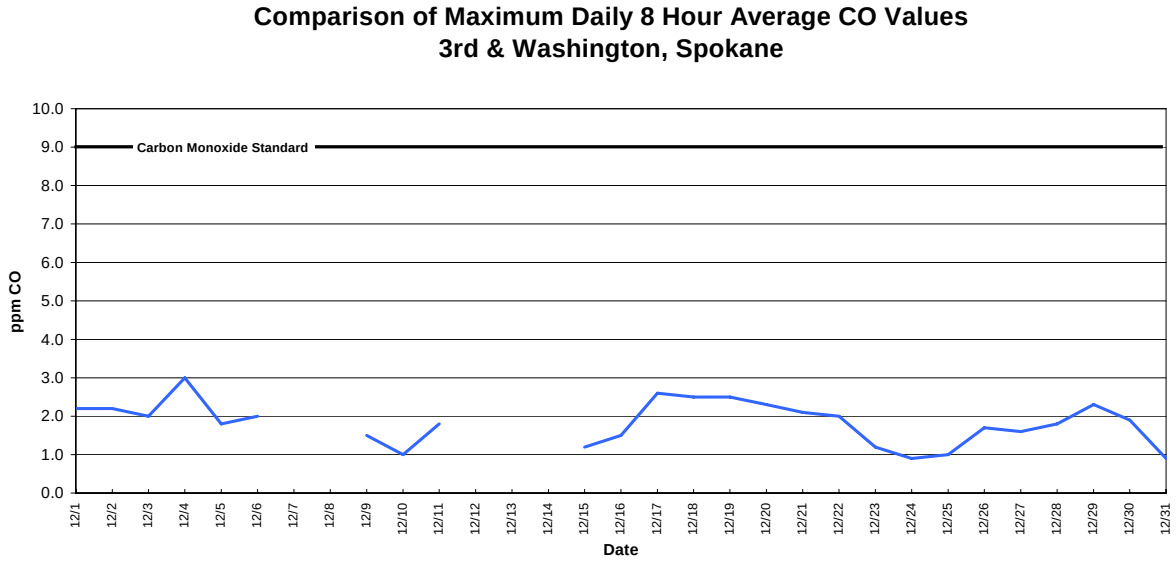
The next chart is a comparison between the concentrations of PM_{10} and $PM_{2.5}$ measured at the Freya & Ferry monitoring site. The site is located in a commercial, light industrial area on the east edge of the City of Spokane. Data on the chart are shown with the result of continuous monitors in solid colors and the Federal Reference Method (FRM) filter-based samplers as points. The correlation (r^2) between the continuous monitor and FRM data is 0.99 for both PM_{10} and $PM_{2.5}$ for December. All PM_{10} and $PM_{2.5}$ mass concentration data are 24 hour averages.



The chart below shows PM_{10} and $PM_{2.5}$ continuous and FRM monitoring data from the Monroe & College site located near downtown Spokane. The correlation between the 24 hour average mass concentrations measured using the continuous monitor and FRM was 0.98 for PM_{10} and 0.97 for $PM_{2.5}$ for the month. The FRM samplers are run on a one in six schedule so that only six points are available for the monthly correlation calculation.



The chart below shows the daily maximums for the CO monitoring site in downtown Spokane (3rd & Washington) for this reporting period.



The wind rose below summarizes hourly average wind speeds and directions measured at the Freya and Ferry Site (Crown Z) in December.