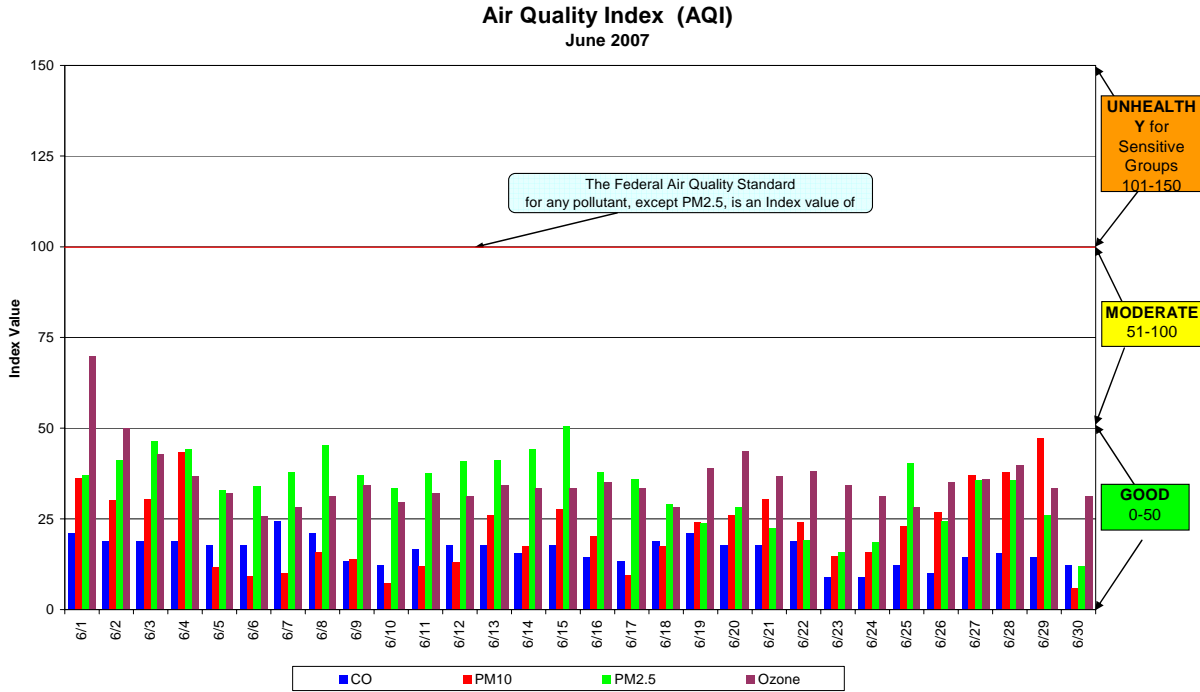


# Air Quality Report June 2007

The chart below shows the daily maximum Air Quality Index (AQI) for June 2007. Carbon Monoxide (CO), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and ozone (O<sub>3</sub>) 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](http://www.spokanecleanair.org/air_quality.asp)). There were no measured exceedances of federal air quality standards in June.



The following tables contain the maximum AQI values for each pollutant for June 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	24/2.2 ppm	3 <sup>rd</sup> & Washington	6/7/07
PM <sub>10</sub>	47/51 µg/m <sup>3</sup>	Freya & Ferry	6/29/07
PM <sub>2.5</sub>	51/16 µg/m <sup>3</sup>	Monroe & College	6/15/07
O <sub>3</sub>	70/0.073 ppm	Greenbluff	6/1/07

### Maximum for the current year

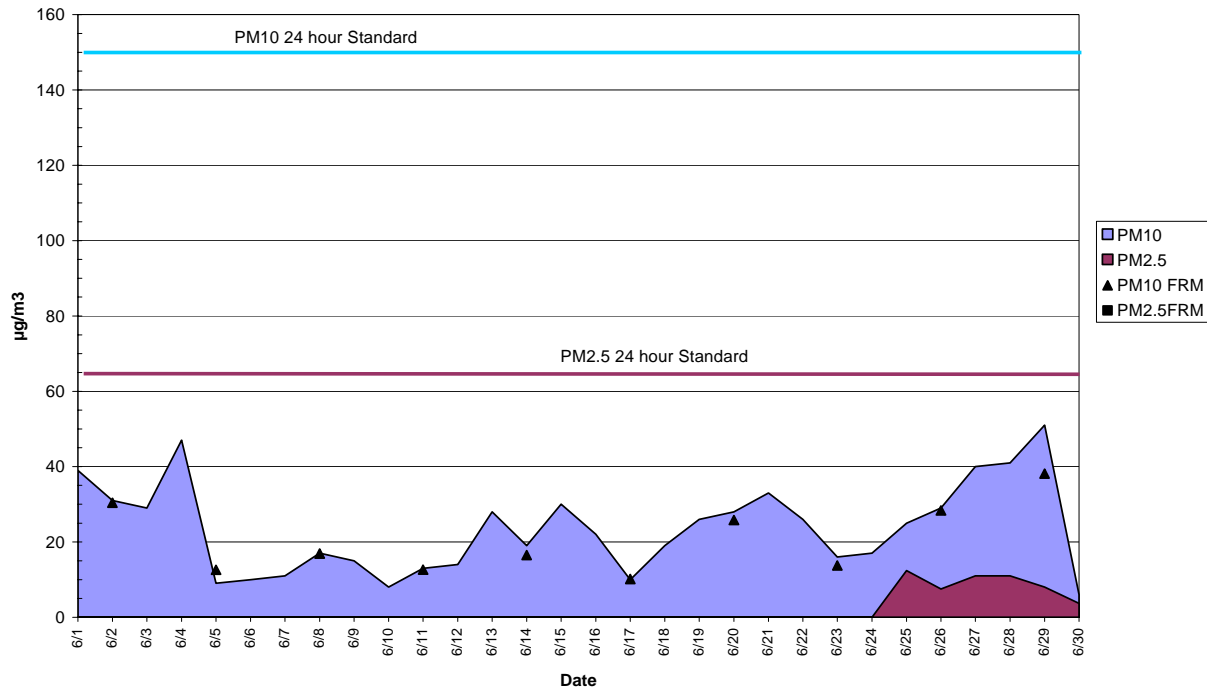
Pollutant	AQI/Concentration	Location	Date
CO	34/3.1 ppm	3 <sup>rd</sup> & Washington	1/19/07
PM <sub>10</sub>	49/53 µg/m <sup>3</sup>	Freya & Ferry	5/16/07
PM <sub>2.5</sub>	79/30 µg/m <sup>3</sup>	Freya & Ferry	1/15/07
O <sub>3</sub>	70/0.073 ppm	Greenbluff	6/1/07

**AQI Summary as of June 30, 2007**

Category	Number of Days This Year	Last Year to Date
Good (0-50)	162	163
Moderate (51-100)	19	18
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 concentrations of PM<sub>10</sub> and PM<sub>2.5</sub> 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. The data shown in solid colors were measured 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. The manually-operated Federal Reference Method (FRM) provides a more accurate measurement of the 24-hour average particulate matter concentration than the TEOM 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 is 0.97 for PM<sub>10</sub>. Federal Reference Method PM<sub>2.5</sub> data were not received from the State of Washington in time for inclusion in this report and the PM<sub>2.5</sub> TEOM was under repair most of the month.

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



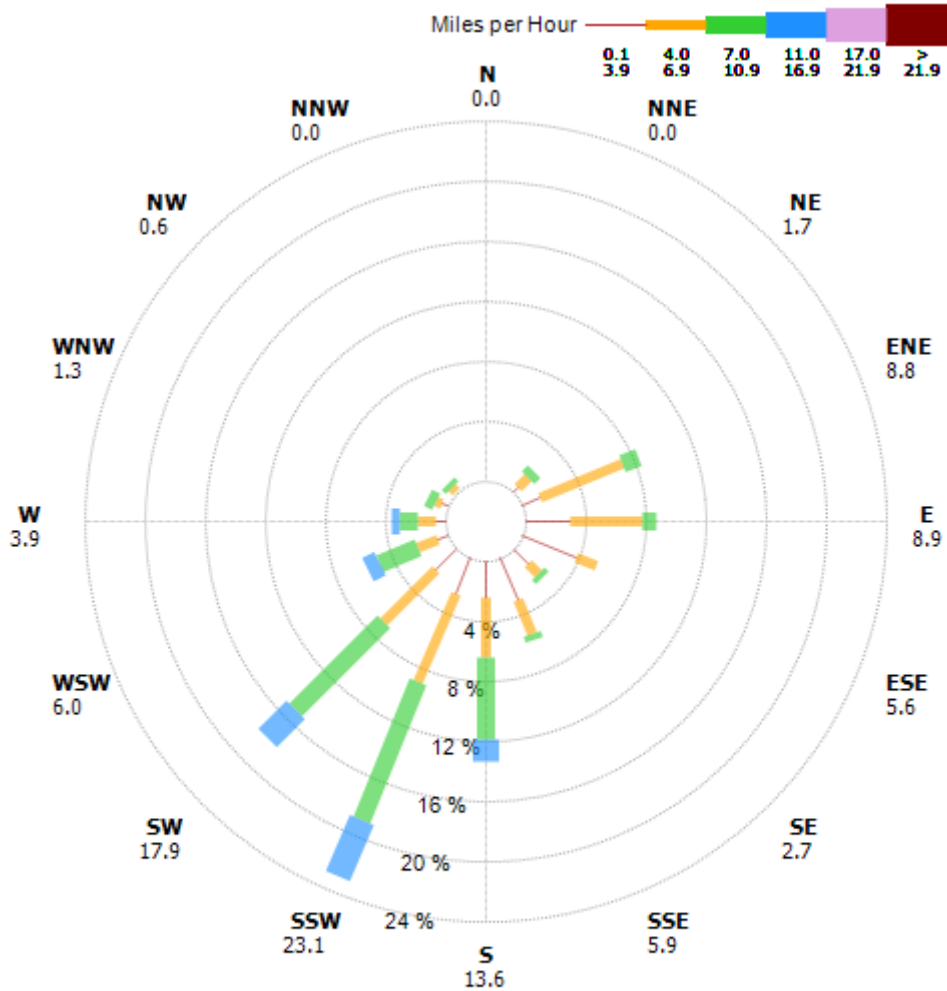
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The table below summarizes the air quality data for June from all of the analyzers operated in Spokane County. The CO and ozone data are 8-hour maximums in parts per million (ppm) and the PM data are 24-hour averages in micrograms per cubic meter of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

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 ( $\mu\text{g}/\text{m}^3$ )	PM10 Turnbull Wildlife Refuge FRM ( $\mu\text{g}/\text{m}^3$ )	PM2.5 Turnbull Wildlife Refuge ( $\mu\text{g}/\text{m}^3$ )	PM10 Garland & Market ( $\mu\text{g}/\text{m}^3$ )	PM10 Liberty Lake ( $\mu\text{g}/\text{m}^3$ )	PM10-2.5 Liberty Lake ( $\mu\text{g}/\text{m}^3$ )	PM2.5 Liberty Lake ( $\mu\text{g}/\text{m}^3$ )	Ozone Greenbluff (ppm)	Ozone Cheney-Turnbull WR (ppm)
6/1/2007	1.9	39				34		11								0.073	0.065
6/2/2007	1.7	31	30			33		13								0.062	0.065
6/3/2007	1.7	29				33		14								0.054	0.055
6/4/2007	1.7	47				36		14								0.045	0.047
6/5/2007	1.6	9	13			7	11	10	3.5	10	3	11	10.6	6.9	3.8	0.037	0.041
6/6/2007	1.6	10				7		11								0.031	0.033
6/7/2007	2.2	11				8		12								0.028	0.036
6/8/2007	1.9	17	17			12		14								0.040	0.040
6/9/2007	1.2	15				14		11								0.041	0.044
6/10/2007	1.1	8				8		10								0.036	0.038
6/11/2007	1.5	13	13			11	10	12	2.2	8	2	10	9.0	6.8	2.2	0.038	0.041
6/12/2007	1.6	14				13		13								0.039	0.040
6/13/2007	1.6	28				24		13								0.044	0.039
6/14/2007	1.4	19	17			15		14								0.043	
6/15/2007	1.6	30				21		16								0.043	
6/16/2007	1.3	22				17		12								0.045	
6/17/2007	1.2	10	10			10	8	11	2.4	7	2	8	7.5	5.0	2.5	0.043	
6/18/2007	1.7	19				16		9								0.036	
6/19/2007	1.9	26				21		7								0.050	
6/20/2007	1.6	28	26			26		9								0.056	
6/21/2007	1.6	33				26		7								0.047	0.035
6/22/2007	1.7	26				22		6								0.049	0.049
6/23/2007	0.8	16	14			14	12	5	2.8	9	3	13	13.5	10.6	2.9	0.043	0.044
6/24/2007	0.8	17				14		6								0.039	0.040
6/25/2007	1.1	25		12		18		5								0.035	0.036
6/26/2007	0.9	29	28	8		21		7								0.037	0.045
6/27/2007	1.3	40		11		32		10								0.041	0.046
6/28/2007	1.4	41		11		32		10								0.051	0.046
6/29/2007	1.3	51	38	8		22	19	8	3.6	8	2	18	17.8	13.6	4.2	0.043	0.033
6/30/2007	1.1	6		4		7		3								0.040	0.040

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The wind rose below summarizes hourly average wind speeds (mph) and directions (degrees) measured at the Freya and Ferry Site in June. The predominant wind direction was south to southwest, especially at higher wind speeds.



**Hour Average Wind Speed**  
 Spokane E Ferry ~ 697 Observations  
 01 Jun 2007 through 30 Jun 2007