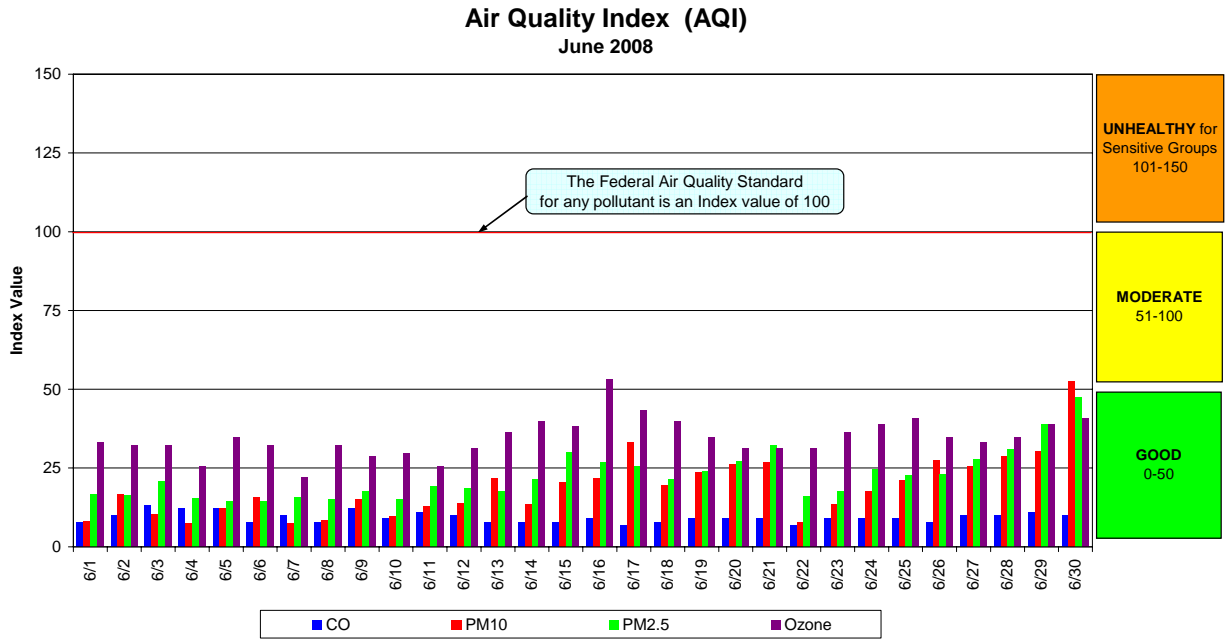


Spokane Regional Clean Air Agency Air Quality Report June 2008

The chart below shows the daily maximum Air Quality Index (AQI) for June 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 so far this year.



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	13/1.2 ppm	3 rd & Washington	6/3/08
PM ₁₀	53/59 µg/m ³	Freya & Ferry	6/30/08
PM _{2.5}	48/14.6 µg/m ³	Monroe & College	6/30/08
O ₃	53/0.060 ppm	Greenbluff	6/16/08

Maximum AQI values and pollutant concentrations to date

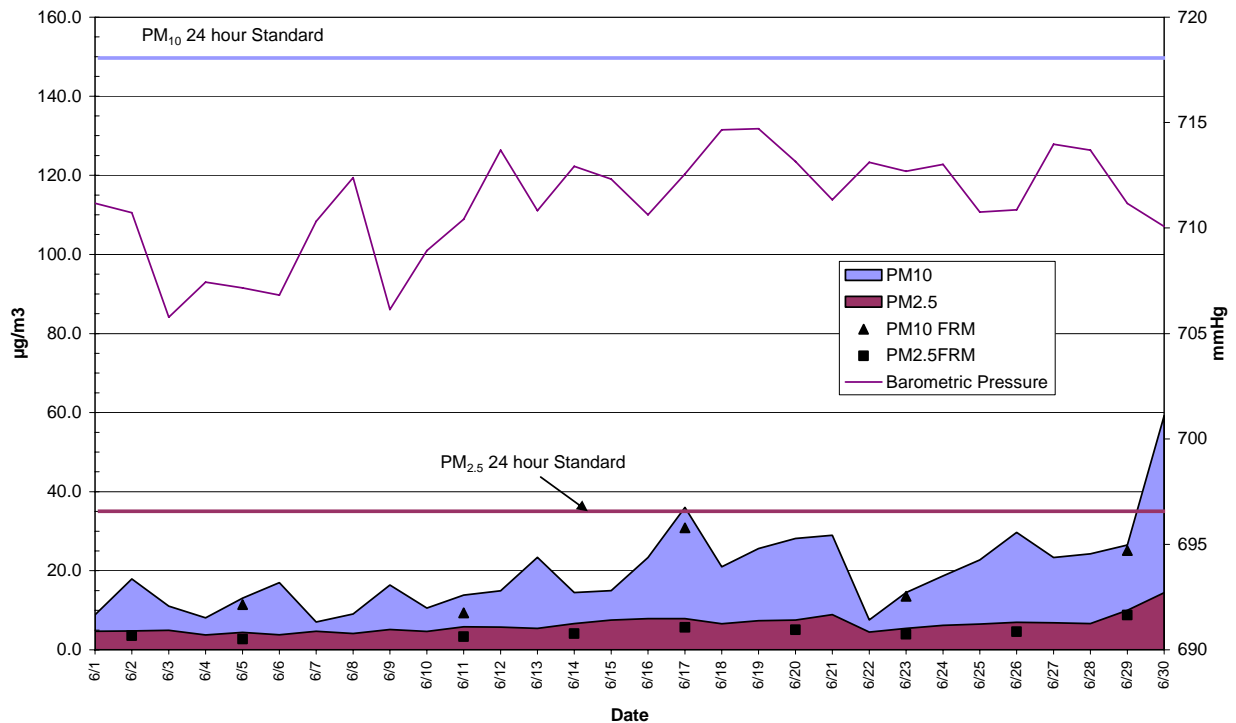
Pollutant	AQI/Concentration	Location	Date
CO	26/2.3 ppm	3 rd & Washington	2/22/08
PM ₁₀	67/88 µg/m ³	Freya & Ferry	2/19/08
PM _{2.5}	82/31.4 µg/m ³	Freya & Ferry	1/25/08
O ₃	53/0.060 ppm	Greenbluff	6/16/08

AQI Summary as of June 30, 2008

Category	Number of Days This Year (Leap Year)	Last Year to Date
Good (0-50)	162	162
Moderate (51-100)	20	19
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 (r²) between the TEOM and FRM data for June was 0.98 for PM₁₀ and 0.95 for PM_{2.5}.

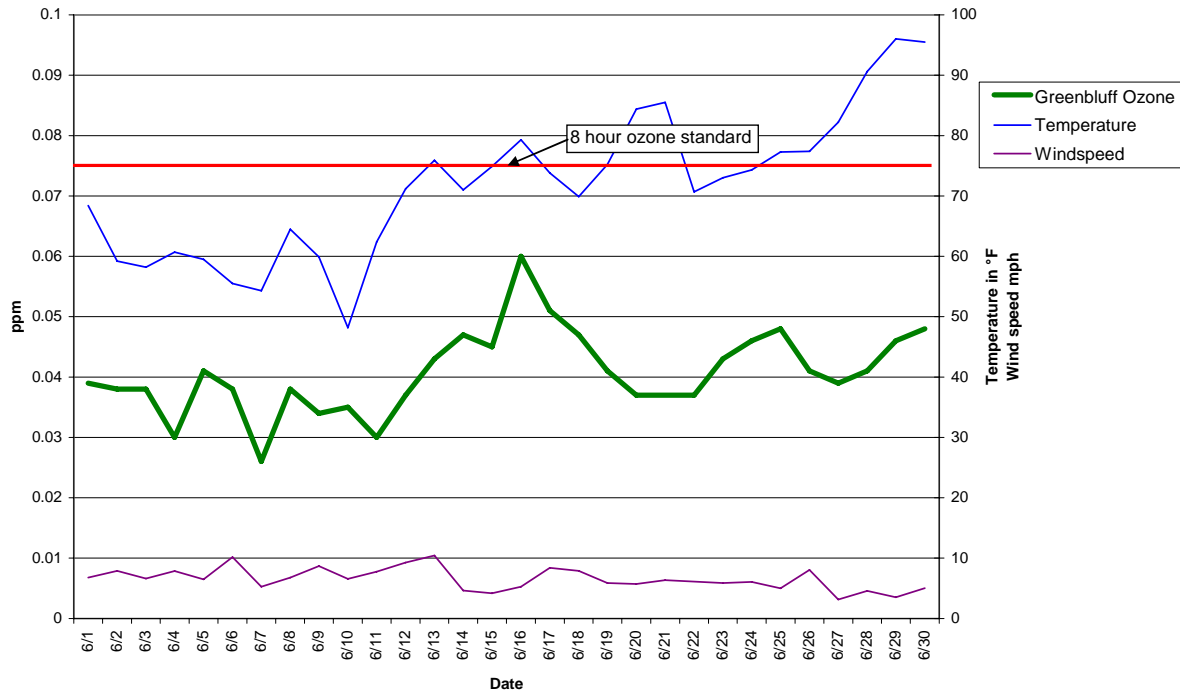
**Freya & Ferry Particulate Matter Data
24hr Average Daily Maximum**



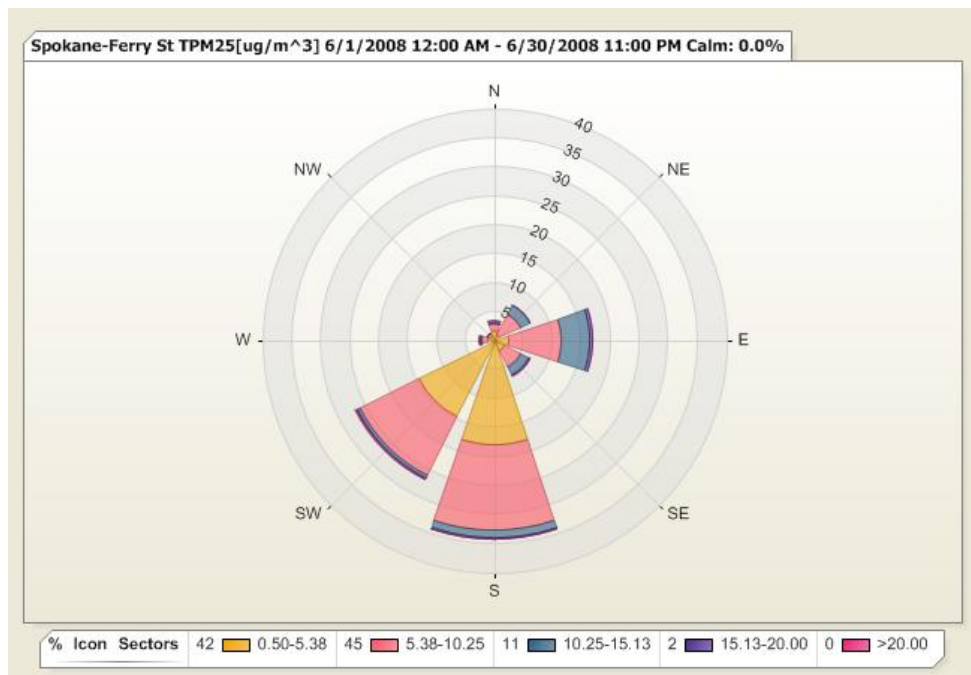
Air Quality Report June 2008

The chart below shows the ozone data for June measured at Greenbluff in the foothills of Mt. Spokane. The ozone data are plotted with the daily maximum temperature data from the Freya & Ferry site. Temperature is a good surrogate for sunlight in the photochemical reaction that forms ozone. Ozone is monitored May 1 through September 30.

Eight Hour Maximum Ozone Concentrations for Spokane Greenbluff (with daily maximum temperature)

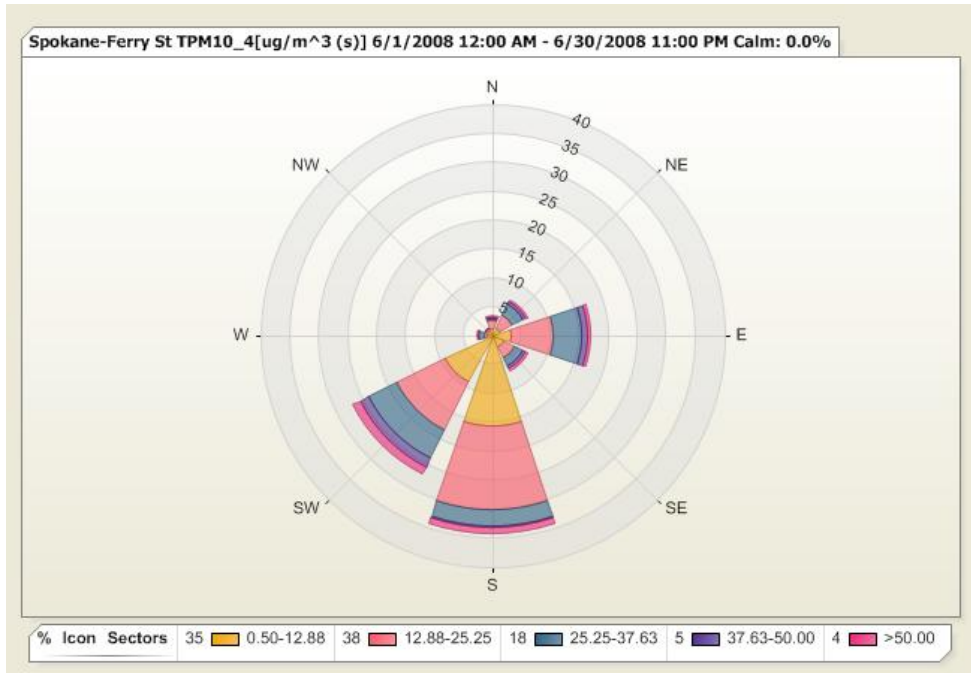


The pollution rose below summarizes hourly average PM_{2.5} concentrations ($\mu\text{g}/\text{m}^3$) and hourly average wind directions (degrees) measured at the Freya and Ferry Site in June.

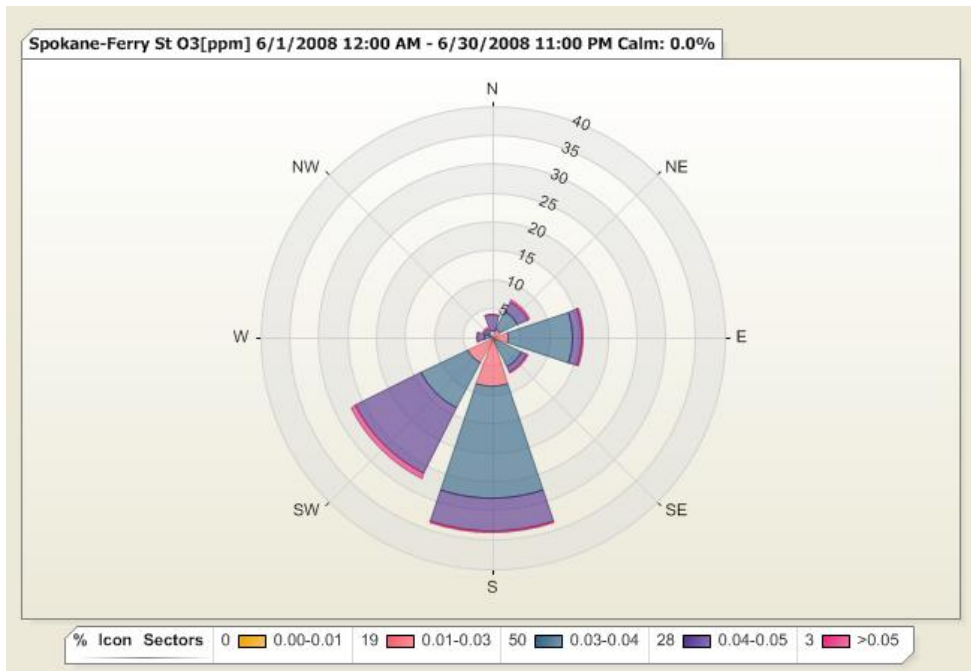


Air Quality Report June 2008

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 June.

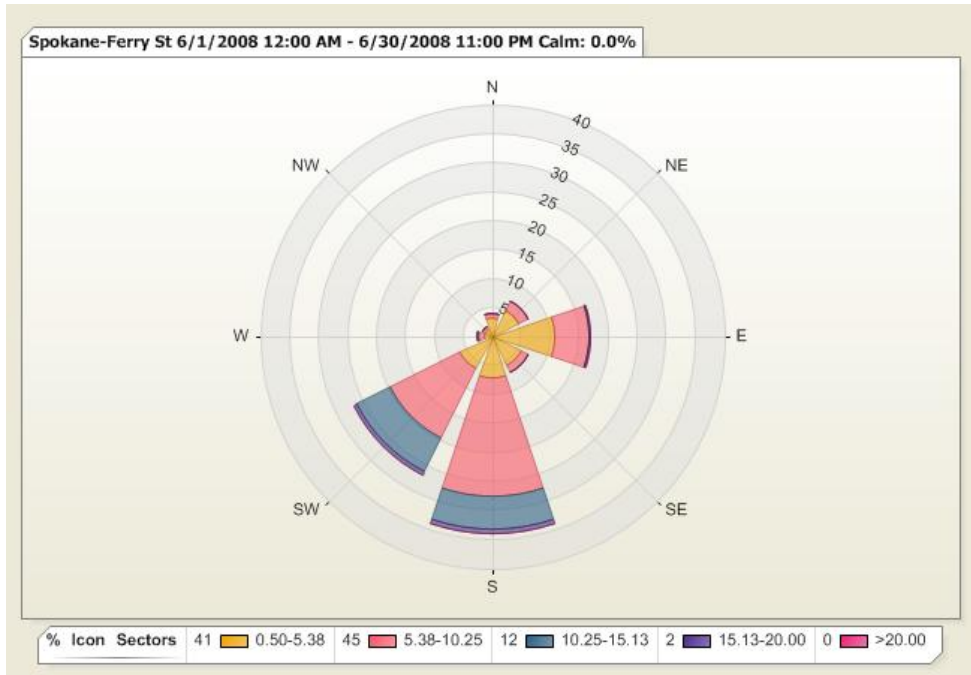


The pollution rose below uses the wind data from Freya and Ferry and the ozone data from Greenbluff to summarize hourly average ozone concentrations (ppm) and hourly average wind directions (degrees) for June.



Air Quality Report June 2008

Finally we have the standard wind rose giving the percent time during the month the wind blew from a particular direction and in what speed range.



Air Quality Report June 2008

The table below summarizes the air quality data for June from all of the analyzers operated in Spokane County. The CO and O₃ 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 (µg/m³). The Monroe & Wellesley site is temporarily shut down for re-roofing of the building where it's located. There are no data for Turnbull NWR because of a power supply problem.

Date	CO 3rd & Washington (ppm)	PM10 Freya & Ferry TEOM (µg/m3)	PM10 Freya & Ferry FRM (µg/m3)	PM2.5 Freya & Ferry TEOM (µg/m3)	PM2.5 Freya & Ferry FRM (µg/m3)	PM10 Monroe & College TEOM (µg/m3)	PM10 Monroe & College FRM (µg/m3)	PM2.5 Monroe & College TEOM (µg/m3)	PM2.5 Monroe & College FRM (µg/m3)	PM2.5 Monroe & Wellesley Nephelometer (µg/m3)	PM10 Turnbull Wildlife Refuge FRM (µg/m3)	PM2.5 Turnbull Wildlife Refuge (µg/m3)	PM10 Liberty Lake (µg/m3)	PM10-2.5 Liberty Lake (µg/m3)	PM2.5 Liberty Lake (µg/m3)	PM2.5 Deer Park TEOM (µg/m3)	PM2.5 Spokane Valley TEOM (µg/m3)	PM2.5 Airway Heights TEOM (µg/m3)	O3 Greenbluff (ppm)
6/1	0.7	9		4.7		6		5.2								7.1	0.5	4.3	0.039
6/2	0.9	18		4.8	3.6	13		5.0								5.1	3.0	4.4	0.038
6/3	1.2	11		4.9		7		6.4								5.4	3.1	4.4	0.038
6/4	1.1	8		3.8		5		4.8								4.5	2.4	3.6	0.030
6/5	1.1	13	11	4.4	2.7	11	7	4.1	2.2				12.3	9.5	2.7	4.3	2.9	3.8	0.041
6/6	0.7	17		3.8		9		4.5								4.1	2.8	3.5	0.038
6/7	0.9	7		4.7		8		4.9								6.5	3.7	3.8	0.026
6/8	0.7	9		4.1		9		4.7								5.3	3.2	3.8	0.038
6/9	1.1	16		5.1		15		5.5								5.2	4.3	4.4	0.034
6/10	0.8	11		4.6		9		4.3								4.9	4.2	4.2	0.035
6/11	1.0	14	9	5.8	3.3	12	7	5.9	2.4				8.4	6.3	2.1	6.2	3.8	5.1	0.030
6/12	0.9	15		5.8		12		5.2								5.8	4.7	5.0	0.037
6/13	0.7	23		5.4		20		4.9								5.6	4.3	4.7	0.043
6/14	0.7	15		6.6	4.1	14		6.5								6.9	7.0	5.7	0.047
6/15	0.7	15		7.5		22		9.2								7.9	7.4	7.3	0.045
6/16	0.8	23		7.9		21		8.3									7.4	7.4	0.060
6/17	0.6	36	31	7.9	5.7	29	24	7.9	4.9				28.0	22.7	5.3	12.4	7.4	6.8	0.051
6/18	0.7	21		6.6		20		6.6								10.4	6.3	6.7	0.047
6/19	0.8	26		7.3		21		6.5								8.8	6.5	5.7	0.041
6/20	0.8	28		7.5	5.1	26		8.3								9.4	9.0	7.4	0.037
6/21	0.8	29		8.9		27		10.0								9.4	10.9	11.7	0.037
6/22	0.6	8		4.5		8		4.9								5.0	4.1	3.4	0.037
6/23	0.8	14	14	5.4	3.9	13	12	5.0	3.7				11.4	7.7	3.8	6.5	4.5	4.2	0.043
6/24	0.8	19		6.2		19		7.6								6.5	5.6	5.6	0.046
6/25	0.8	23		6.5		23		7.0								7.7	6.2	5.3	0.048
6/26	0.7	30		7.0	4.6	26		7.1								7.6	6.3	6.5	0.041
6/27	0.9	23		6.9		28		8.6								7.3	6.9	6.6	0.039
6/28	0.9	24		6.6		31		9.5								8.2	10.2	7.9	0.041
6/29	1.0	27	25	10.0	8.8	33	29	12.0	9.8				20.4	13.0	7.4	11.0	11.4	9.6	0.046
6/30	0.9	59		14.4		53		14.6								15.2	15.3	12.5	0.048