

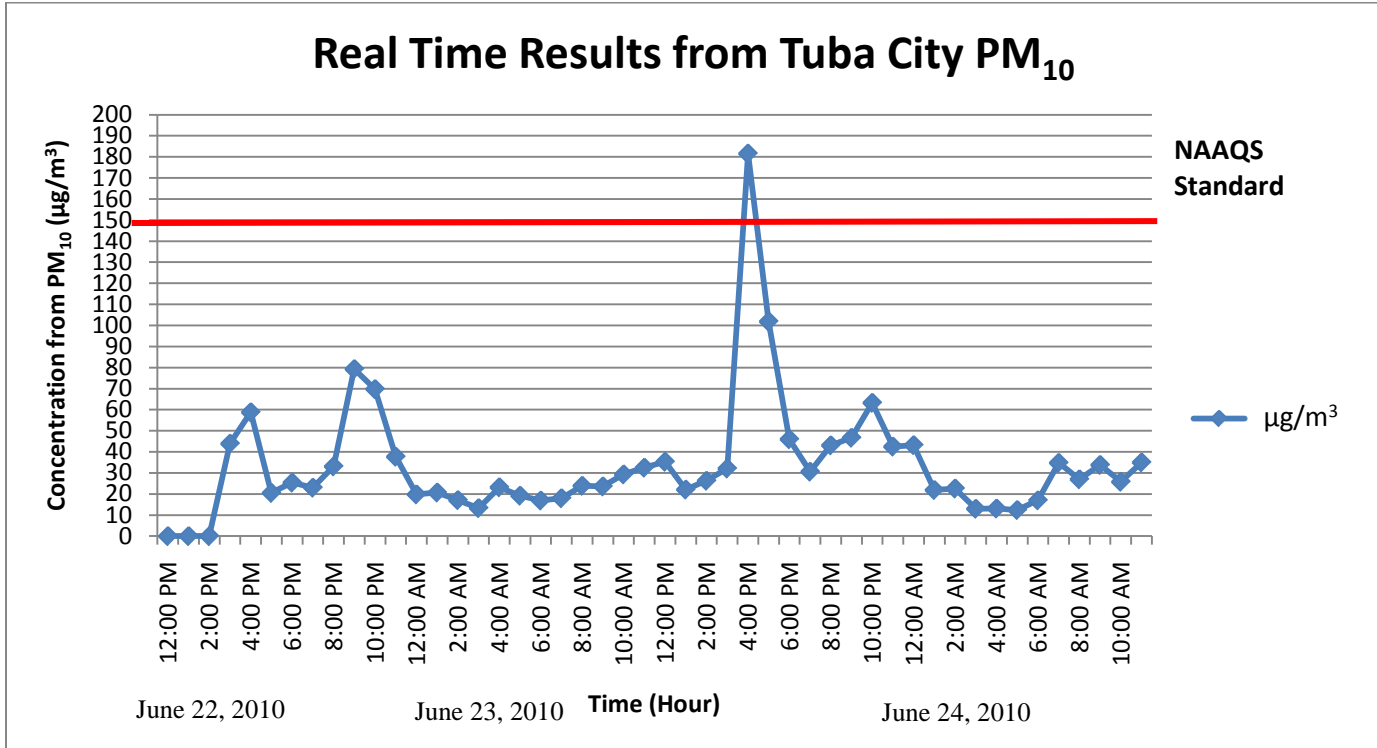


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**Tuba City Particulate Matter-10 (PM<sub>10</sub>) Data converted to Air Quality Index (AQI)**

Navajo Nation Air Monitoring site ID 1237



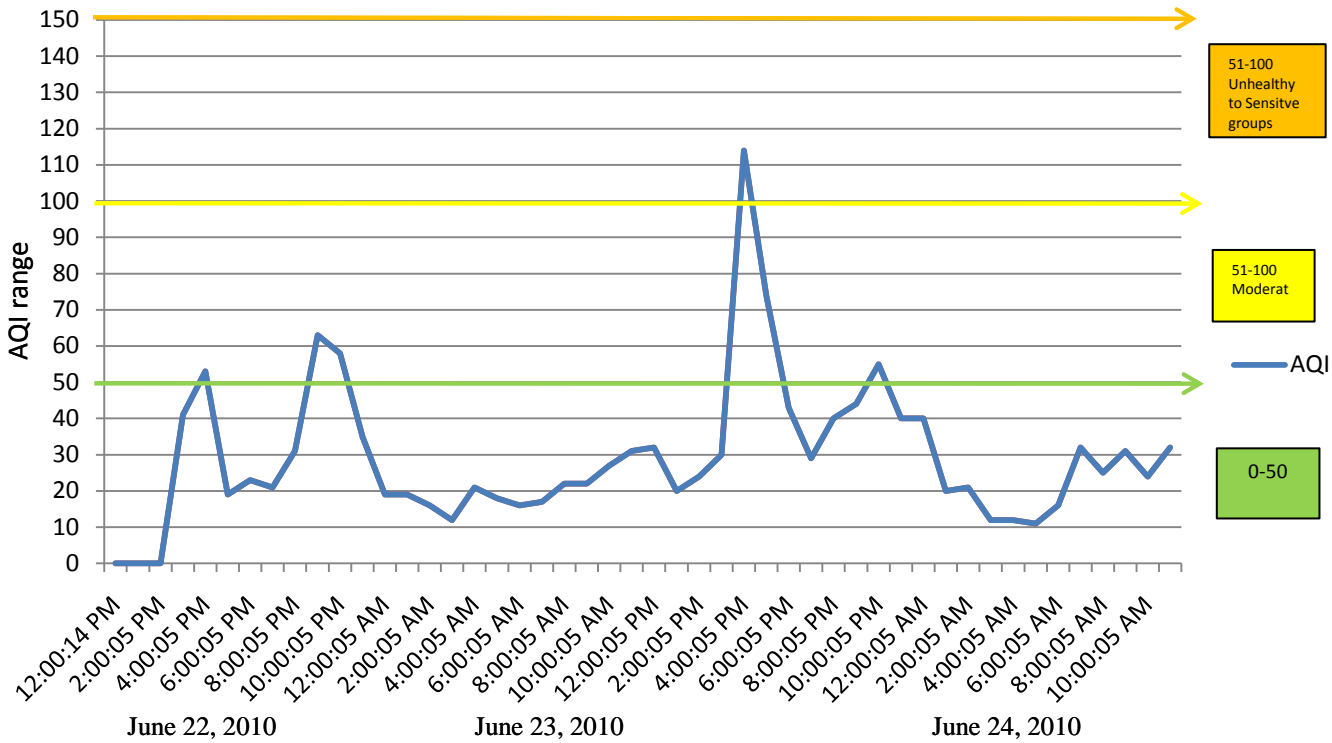
The real time result is converted to the Air Quality Index values with the conversion chart below.

The data collected were less than 150 µg/m<sup>3</sup> of the NAAQS standard. On June 23, 2010 at 4:00 p.m. the PM<sub>10</sub> exceeded the NAAQS with a concentration of 180 µg/m<sup>3</sup>, which had an exposure length of less than 1 hour after decreasing down to 100 µg/m<sup>3</sup>. Overall, the chart shows that in the morning hours (A.M.) the results indicated that the PM<sub>10</sub> concentration do not exceed 50 µg/m<sup>3</sup>, but during the afternoon hours (P.M.), the concentrations do not exceed 100 µg/m<sup>3</sup>.



This photo is the TEOM setup, collecting PM<sub>10</sub> collecting data at Tuba City, Arizona.

# AQI from Tuba City PM<sub>10</sub>



Majority of the data collected was labeled “Good – 0 to 50 (Below Green line)” in the AQI range. Throughout the 3-days we collected data, which resulted with 3 points exceeding from the “Good” into the “Moderate – 51 to 100 (Below Yellow line)”. The highest point in data collection was on June 23, 2010 at 4:00 p.m. (MST) with a sample of 114 AQI range value. The 114 AQI data point was the only highest point collected within the “Unhealthy for Sensitive Groups – 101 to 150 (Below Orange line)”. The result of this high peak could be due to high regional winds that may have affected the increased within that hour. This sample did not exceed more than an hour of exposure, according to the AQI standards, members of sensitive groups may experience health effects. Generally the air quality throughout the data collection period was considered satisfactory and air pollution poses little or no risk.

Air Quality Index (AQI) Values	Levels of Health Concern	Meaning
When the AQI is in this range:	...air quality conditions are:	This what some situations could fall under.

0-50	Good	Air quality is considered satisfactory, and air pollution poses little or no risk
51-100	Moderate	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
101-150	Unhealthy for Sensitive Groups	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
151 to 200	Unhealthy	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
201 to 300	Very Unhealthy	Health alert: everyone may experience more serious health effects
301 to 500	Hazardous	Health warnings of emergency conditions. The entire population is more likely to be affected.

For Additional information please refer to the USEPA – AIRNow website. <http://www.airnow.gov/index.cfm?action=aqibasics.aqi>

For more information about health and safety during a fire, please visit the Navajo Nation EPA – Air Quality Control Program [www.navajonationepa.org/airq](http://www.navajonationepa.org/airq) or reach us at (928) 729-4246 / [nnepanilchi@navajo.org](mailto:nnepanilchi@navajo.org).