



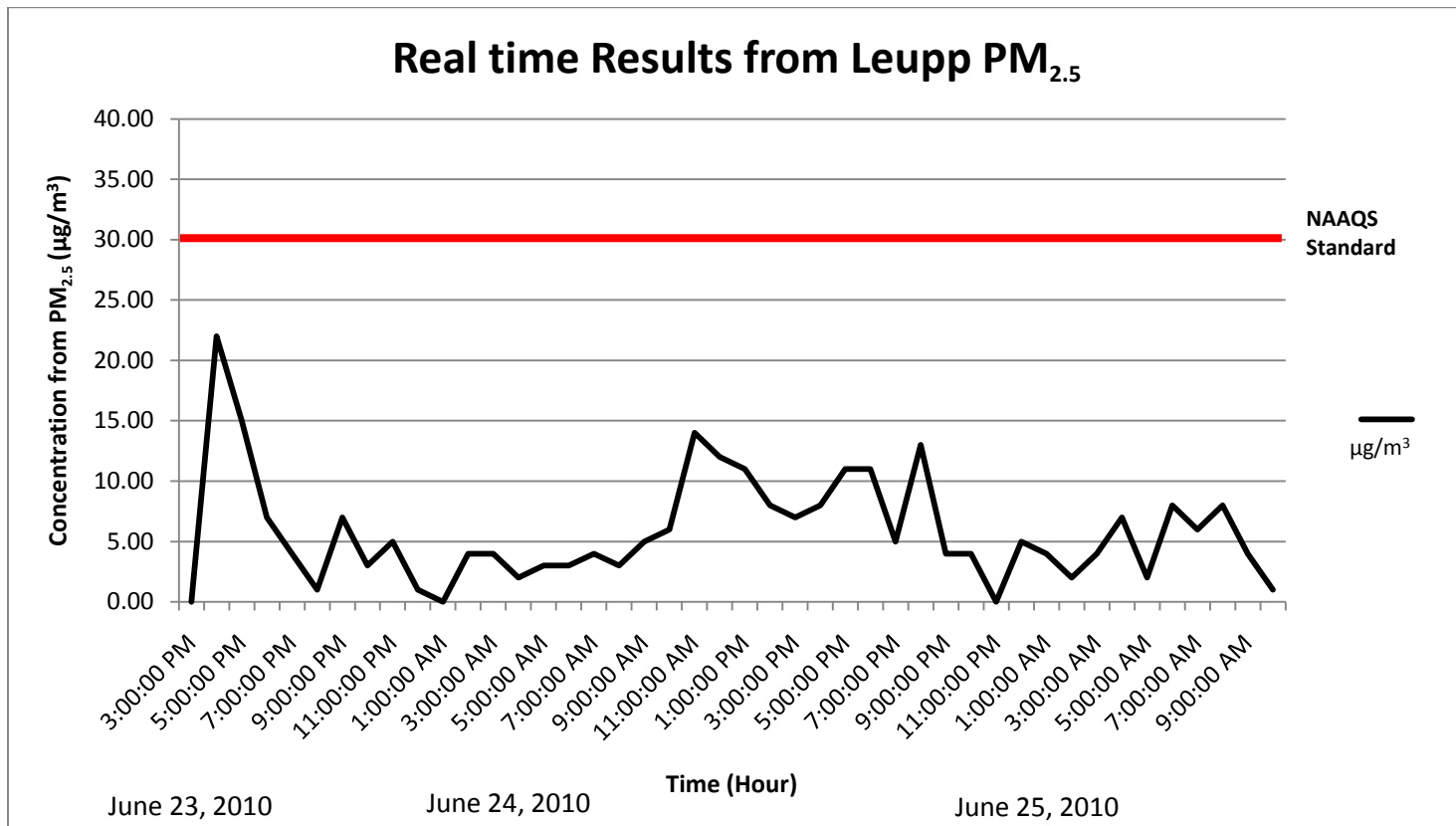
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**Leupp Particulate Matter-2.5 (PM_{2.5}) Data converted to Air Quality Index (AQI) format
 Portable Air Monitor (EBAM-PM_{2.5})**



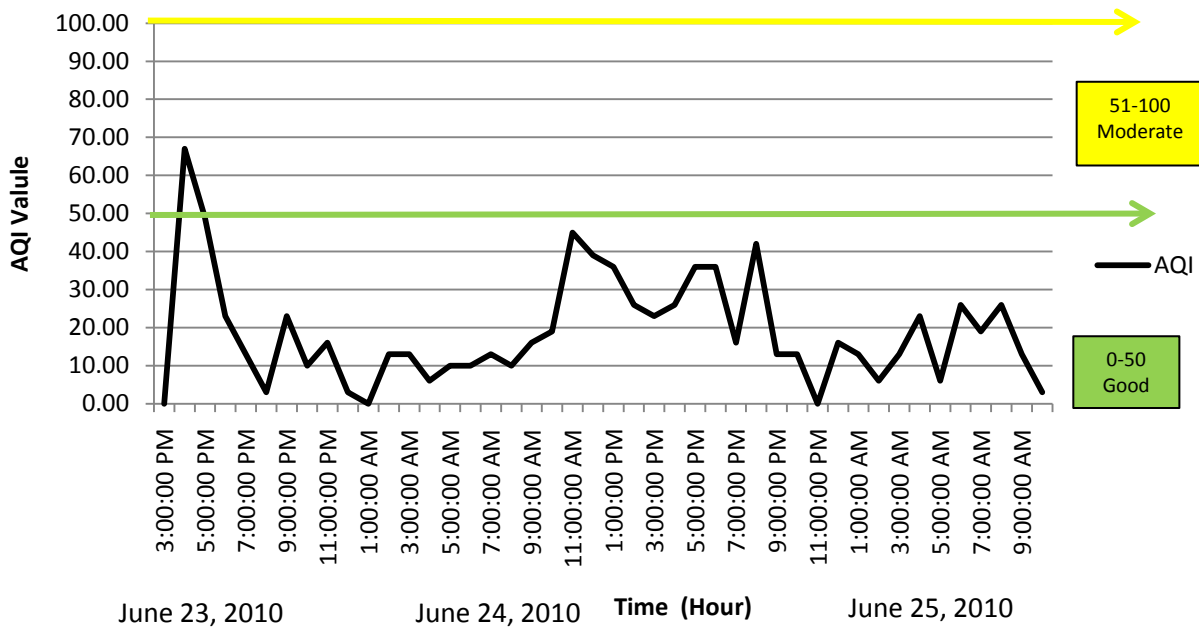
The real time result is converted to the Air Quality Index values with the conversion chart below.

The highest point of data collected was on June 22, 2010 at 4:00 p.m. with a value of 22 µg/m³. The data indicates a trend of higher contraction values between 5 µg/m³ to 25 µg/m³ during the afternoon hours (P.M.). The morning hours (A.M.) has concentration values between 0 µg/m³ to 10 µg/m³. The overall data collected did not exceed the NAAQS standard of 30 µg/m³.



This picture is the E-BAM setup, collecting PM_{2.5} data at Leupp, Arizona.

AQI Results from PM_{2.5} at Leupp, AZ



Overall the data collected from Leupp, PM_{2.5} the AQI values did not exceeded “Good – 0 to 50”, except for June 23, 2010 at 4:00pm. The AQI value exceeded to 67 which was the only point within the “Moderate -51 to 100” AQI range. The result of this high peak could be due to high regional winds that may have affected the increased within that hour. During this timeframe the AQI states, “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.” 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
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<i>When the AQI is in this range:</i>	<i>...air quality conditions are:</i>	This what some situations could fall under.
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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 or reach us at (928) 729-4246 / nnepanilchi@navajo.org.