

Wildfires and Smoke

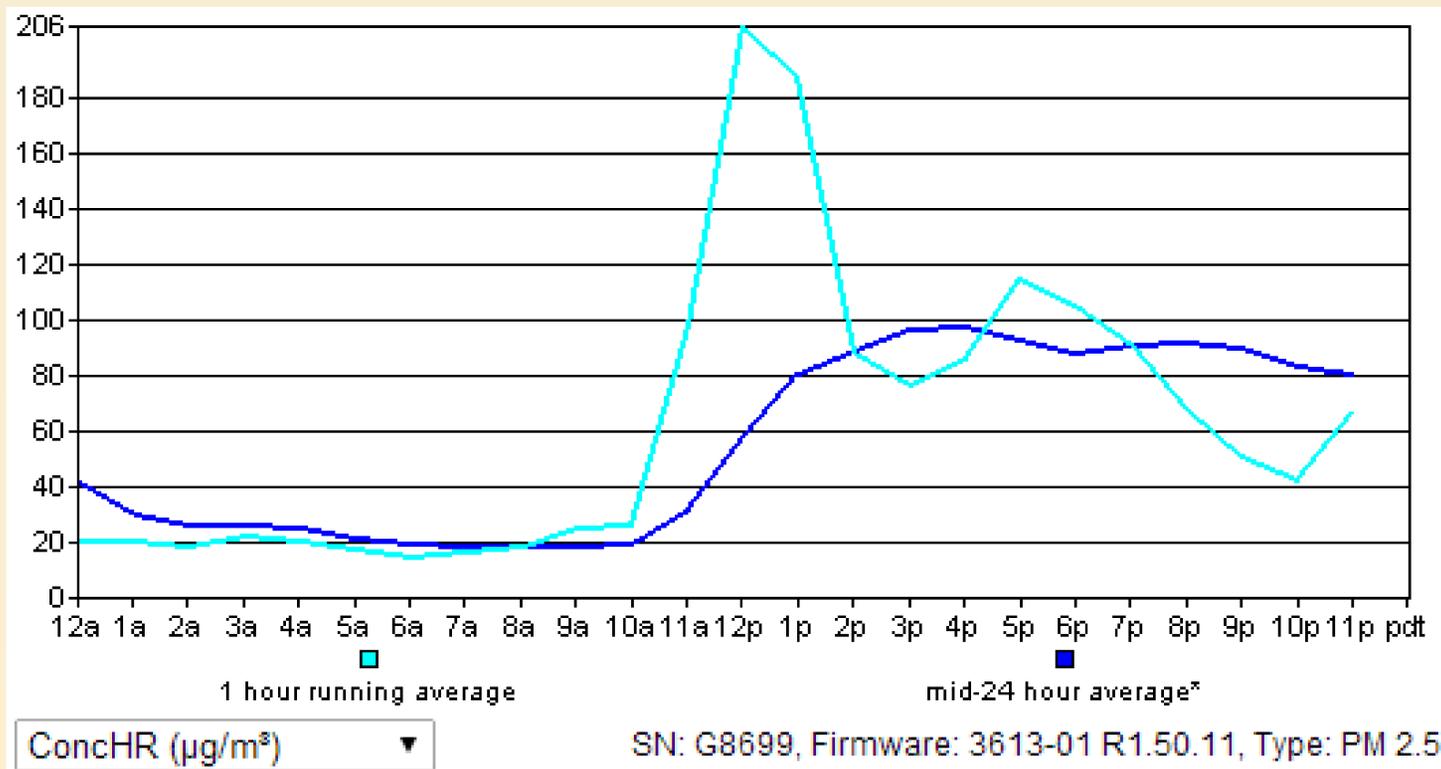
Wildfire smoke can be hazardous for firefighters and downwind communities.



An example of an Environmental Beta Attenuation Monitor (EBAM), type of smoke monitoring instrument. These instruments can be deployed near a wildfires and data uploaded online.

Air Quality Guide for Particle Pollution					
Adjective	Air Quality Index (AQI)	Concentration PM 2.5 ($\mu\text{g}/\text{m}^3$ - 1-3 hr. avg.)	Concentration PM 2.5 ($\mu\text{g}/\text{m}^3$ - 24 hr. avg.)	Cautionary Statement	Health Effects Statement
Good	0-50	0-38	0-15	None	
Moderate	51-100	39-88	16-35	Unusually sensitive people should consider reducing prolonged or heavy exertion.	
Unhealthy for Sensitive Groups	101-150	89-138	36-65	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion.	Increasing likelihood of respiratory symptoms in sensitive individuals, aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly.
Unhealthy	151-200	139-351	66-150	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion.	Increasing aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly; increased respiratory effects in general population.
Very Unhealthy	201-300	352-526	151-250	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.	Significant aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly; significant increase in respiratory effects in general population.
Hazardous	300+	526+	250+	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.	Significant aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly; significant increase in respiratory effects in general population.

A chart used to describe air quality based on monitoring data.



Smoke Concentrations in Yreka

Sunday, August 3rd, 2014

Particulate Matter 2.5 (PM 2.5) measured in micrograms of cubic meter by Environmental Beta Attenuation Monitor (EBAMs) and data can be view online at the Interagency Real-time Smoke Monitoring webpage. This webpage is located at: <https://airsis.com/usfs/default.asp>

More information at the California Smoke Blog: <http://californiasmokeinfo.blogspot.com/>