



FROM THE AIR PROGRAM

Did you know??

You can find current weather and air quality conditions as measured by the Tribe's monitoring station online at: http://www.bishoptribeemo.com/index_air.htm

Particles sized 10 microns or smaller (PM-10) can escape your body's filtering system, irritating and attaching to the lungs, possibly affecting long-term respiratory function. PM-10 levels are highest during wind events. PM-2.5 is the size that is thought to be most harmful by lodging in the smallest lung cavities or being absorbed into your body, and includes smoke, pollen, and some chemical vapors.

BISHOP PAIUTE TRIBE AIR QUALITY PROGRAM

- The pictures looking west are taken hourly and archived for future use.
- The air quality and weather information is updated every five minutes.
- Clicking on the camera icon at the bottom will enlarge the current photograph. Right and left arrows can be used to scroll through the last 12 pictures taken. (Mouse over the enlarged picture to locate the arrows.)
- Clicking on the white data boxes will generate a graph of the weather and air quality data. The variable and time period of data graphed can be selected from the boxes at the top of the graph.

Data are also available from the [Tribal Environmental Exchange Network](#). Clicking this site will open a second tab in your browser and you will be exiting the EMO website.

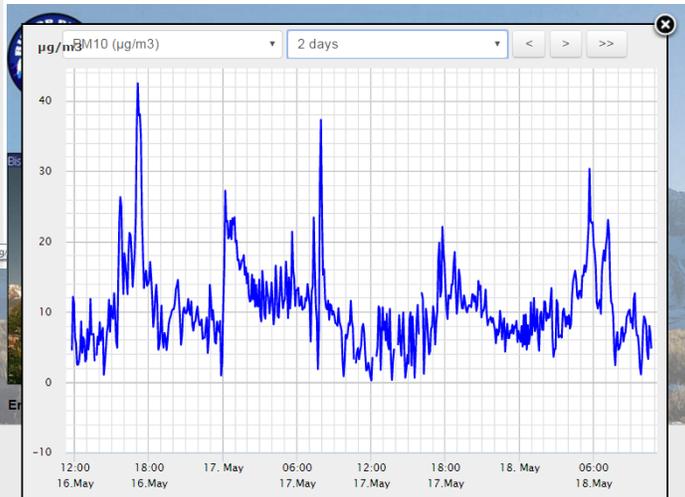
MEASUREMENTS
Last Updated: 10:25 PST Wed May 18, 2016

CAMERA
Bishop Tribe EMO May 18 2016 10:01 PST Exp 397

WEATHER / AIR QUALITY

Temperature (°F)	73	Wind Speed (mph)	5
Relative Humidity (%)	19	Wind Gust (mph)	10
Dewpoint (°F)	28	Wind Direction	NW
Pressure (mb)	874	Ozone (ppb)	25
Precipitation (in)	0.00	PM2.5 (ug/m3)	1
Solar Radiation (ly/min)	1.42	PM10 (ug/m3)	5

Enlarge the current webcam view Click on the white data boxes above to obtain a graph



Remember that particulate matter is measured by size, not by chemical composition, though it can include toxic compounds and carcinogens, especially in smoke from wild fires or wood fires. PM-10 is also a product of during fires.

Particulate matter is measured as a concentration, in the units ug/m³. *What??* That's micrograms per cubic meter. So a tiny weight per volume of air.

Because prolonged and long-term exposure are more closely linked with development of health effects than short-term exposure, concentrations of PM are often reported as hourly or 24-hourly averages. The Tribal allowable standards are 24-hour averages of 50 ug/m³ for PM-10, and 35 ug/m³ for PM-2.5. Hourly levels can be interpreted as per the color coded chart here. The Air Program collects hourly and 24-hourly averages as well as the real time levels shown online. The squares change to yellow or orange if the current level is high enough to exceed a threshold. The state standard for ozone is 75 ppb (parts per billion) over 8 hours. Levels at the reservation are not this high.

PM2.5 (µg/m ³)	Hourly Concentrations	PM10 (µg/m ³)
<38	Good	<171
39-88	Moderate	172-383
89-138	Unhealthy for Sensitive Groups	384-633
139-351	Unhealthy	634-826
352-526	Very Unhealthy	827-891
>527	Hazardous	>892

The numbers on the Tribal website above are the most current measured levels, updated every 5 minutes, and 15 minutes old. If you click on the numbers in the boxes, you will get a graph showing exactly what the monitors have been measuring, for the time period you choose, 1 to 7 days. The current wind direction and hourly camera picture for visibility are also displayed.

The last issue said "In 2016 so far, the Tribe's weather station has measured 1" in rainfall." We think this was closer to 1.25". The 2016 running total now is roughly 1.5" The Tribe's rain sensor measures continuous rainfall better than patchy rain that passes through during storm fronts, so we may have got some patchy rain not included in the total.

correction: