Caney Creek (CACR) 2016 Site Report

The Interagency Monitoring of Protected Visual Environments (IMPROVE) is a long-term air pollution measurement program designed to document and track visibility in protected areas. IMPROVE samples and analyzes the haze particles that impair visibility so their sources can be identified and addressed.

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In the plots below, mass concentrations measured at Caney Creek give a sense of the seasonal trends of air quality in the area as well as show significant air quality events such as wildfires and dust storms. These are plotted alongside the average measurements across the IMPROVE network as well as its related Chemical Speciation Network (CSN). The CSN sites are located in urban areas where the populations are highest. In general, lower concentrations would suggest better visibility.

**Daily Fine Particle Mass Concentrations in 2016**

**Trend in Fine Particle Mass Concentration Since 2000**

Gray area shows the range of measurements during each year (not including extreme high and lows)

Figure 1: Annual median concentrations. Gray area shows 10th and 90th percentile.

More Information

To view and download IMPROVE data, you can visit: [www3.epa.gov/airquality/airdata/](http://www3.epa.gov/airquality/airdata/)
The Univ. of California, Davis website with information about current research and publications: [airquality.crocker.ucdavis.edu](http://airquality.crocker.ucdavis.edu)
The Colorado State Univ. website with data resources, literature, and visibility overviews: [vista.cira.colostate.edu/improve/](http://vista.cira.colostate.edu/improve/)
The EPA website with guidance documents and background information: [www3.epa.gov/ttnamti1/visdata.html](http://www3.epa.gov/ttnamti1/visdata.html)
Real-time air monitoring data for the United States: [www.airnow.gov](http://www.airnow.gov)
The following plots summarize the chemical composition of particles collected at this site on a monthly average (left) and for the day with the highest measured mass during 2016 (right).

The following map shows the average mass concentrations for both IMPROVE and the urban Chemical Speciation Network (CSN) sites in the region. The symbols indicate which network the sites are associated with. The color bar indicates the average annual mass concentration (micrograms per cubic meter) measured at each site in 2016.