



Olympic National Park (OLYM1) 2022 Site Report

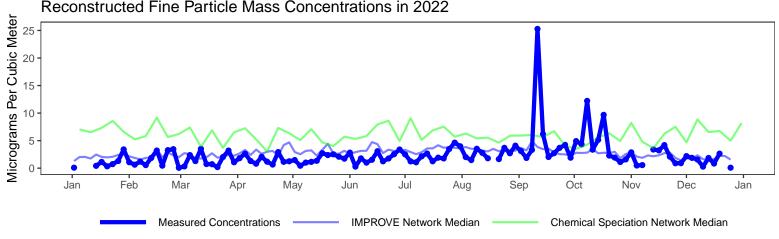
The Interagency Monitoring of Protected Visual Environments (IMPROVE) is a long-term air pollution measurement program designed to document and track visibility in protected areas. IMPROVE samples and analyzes the haze particles that impair visibility so their sources can be identified and addressed.

Percent of Samples Successfully Collected and Analyzed Per Year

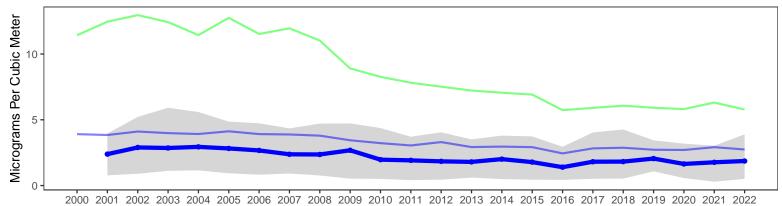
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
72	73	75	71	72	73	75	72	85	98	98	99	98	96	85	98	98	94

Samples Successfully Collected and Analyzed in 2022 by Filter Type. PTFE: 116 (95.1%), Nylon: 114 (93.4%), Quartz: 114 (93.4%)

The plots below show temporal trends for site 53-009-0020 alongside network-wide CSN and IMPROVE median concentrations. The top plot shows the variability of the reconstructed fine mass (RFM) concentrations during 2022; RFM can only be calculated if all three filters collected on a sampling day are valid. The bottom plot illustrates the long-term trends of ambient concentrations; the gray shaded region represents the range of values measured each year at this site, illustrated using the 10th and 90th percentile values.



Long–Term Trends in Reconstructed Fine Mass



Missing years are due to low number of RFM values.

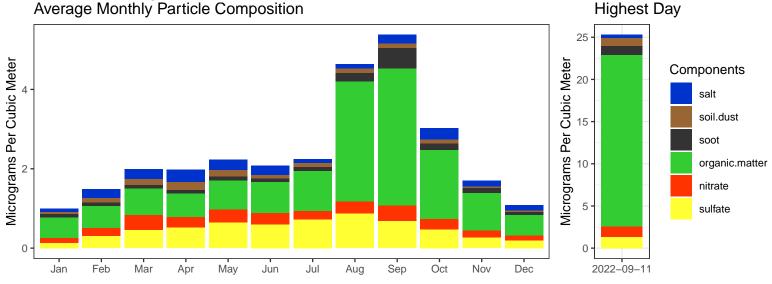
More Information

To view and download IMPROVE data, you can visit: https://www.epa.gov/outdoor-air-quality-data Univ. of California, Davis website with information about current research and publications: https://aqrc.ucdavis.edu/ The Colorado State Univ. website with data resources, literature, and visibility overviews: http://vista.cira.colostate.edu/Improve/ EPA website with guidance and background documents: https://www.epa.gov/amtic/chemical-speciation-network-csn Real-time air monitoring data for the United States: https://www.airnow.gov/





The following plots summarize the chemical composition of particles collected at this site. The monthly averaged compositions calculated from 2018-2022 data are shown on the left while compositions for the day with the highest measured concentrations during 2022 are shown on the right.



ke consumption leforestation,
ng, smoking , household cleaners nical manufacturing

The following map shows the average RFM concentrations for nearby sites in both CSN and the rural IMPROVE Network. The point shapes indicate which network the sites are associated with. The color bar indicates the average annual RFM concentration (micrograms per cubic meter) measured at each site in 2022.

