

Data Analysis Subcommittee Update



Jenny Hand, CIRA-CSU

Fall Virtual IMPROVE Steering Committee Meeting
November 18-19, 2025

Data Compilation, Analysis, and Reporting:

- Developing the policies for generating and distributing the IMPROVE data, metadata, and data products to EPA AQS and CIRA FED.
- Reviewing and overseeing all quality control assessments as defined in the QAPP and each year reviews irregular/suspect data and makes recommendations for its disposition.
- Overseeing the generation of the routine reports and data products, e.g., the RHR metrics for tracking progress in visibility improvements .
- Helping with the unique IMPROVE data analyses and assessments.
- Hold one virtual meeting per year.



Members

Jenny Hand – Chair, CSU-CIRA

Margaret McCourtney – Minnesota Pollution Control Agency (MPCA)

Rebekka Fine – Air Quality Planning and Science Division, CARB

Liz Ulrich – Montana Dept of Environmental Quality

Bret Schichtel – NPS

Tony Prenni – NPS

Scott Copeland – CSU-CIRA

Bonne Ford – CSU-CIRA



Major Activities:

- Coding RHR metrics in Python
- IMPROVE 2024 RHR Metrics
- IMPROVE 40th Anniversary article in EM Plus
- IMPROVE website issues: semi-resolved
- IMPROVE cost savings analysis:
 - Impacts on visibility metrics from several exploratory data analyses (impacts from cutting gravimetric PM_{2.5} and PM₁₀, reducing number of sampling days, estimating coarse mass from fine dust, cutting sites)

Celebrating the 40th Anniversary of the IMPROVE Visibility Program for National Parks

by J.L. Hand, S. Copeland, B. Ford, W.C. Malm, A.J. Prenni, and B.A. Schichtel



Upcoming Activities... ?

Activity	Update/Timeline	Responsible Committee
IMPROVE QMP	Completed ✓	Network operations committee
IMPROVE QAPP	5-years (last revised 2016- underway) ~✓	Network operations subcommittee
IMPROVE Outreach Webinars	As needed/requested ✓	Outreach committee
IMPROVE cost savings analyses	Ongoing ✓	Data subcommittee
Annual RHR metrics	Annual ✓	Data subcommittee