



Technical Status Report

March 2007 (Updates & changes to sections of this report from earlier status reports are noted in *bold italics*.)

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Background

The purpose of this ongoing series of status reports is to periodically describe what and when technical work products from WRAP Forums and Workgroups or other sources will be available for use in the regional haze planning process through 2007. *The regional technical analysis for haze planning was largely completed on schedule in late 2006. Results of these analyses are available on the TSS. Progress on regional haze planning work to date indicates that some WRAP technical activities to support the 2007 plan development process will need to continue during 2007, and that technical support will need to continue after 2007. Those activities through 2007 are reflected in updates to Sections A and B of this document.* Descriptions of the individual projects are in the WRAP workplan, and methods and details about the data (how and why the work was done) are also available from contractor reports or websites, or from the Technical Coordinator. *This update covers work accomplished through February 2007, and describes plans for future technical analyses.*

The status report is organized as follows:

- *Section A* - Access and content of existing data nodes;
- *Section B* - Progress updates for key existing and planned work product deliverables from Forums and Workgroups, summarized from the project descriptions of the most current WRAP Workplan posted at: http://wrapair.org/WRAP/meetings/060913m/10_WRAP_2007_Work_Plan.pdf;
- *Section C* - The *2007 Technical Analysis Plan*; and
- *Section D* - Highlights and brief descriptions of selected specific analyses and projects related to regional haze planning accomplished in the past few months.

A) Existing Data Nodes (March 2007)

Visibility Information Exchange Web System (VIEWS) - <http://vista.cira.colostate.edu/views/> – this system provides ongoing access to IMPROVE and other visibility monitoring data, research results, and special studies related to the Regional Haze Rule. Downloads of the IMPROVE data, custom displays of spatial, chemical, and temporal patterns, as well as information about applying monitoring data for regional haze planning are available. This system was originally sponsored by the Ambient Monitoring & Reporting Forum, and currently has national coverage through sponsorship by all 5 RPOs through September 2006. The complete preliminary dataset from Regional Haze Rule Baseline Period (2000-04) as measured by the IMPROVE monitoring network has been posted, and Class I area-specific data are available for review, including 5-year averages of the Best and Worst 20% visibility days and glide paths from baseline period averages to EPA default natural conditions. The IMPROVE Steering Committee has approved a revised light extinction equation, and VIEWS staff have implemented that option for calculating deciviews and other haze metrics using either the old/existing equation (circa 1988) or the revised (circa December 2005) light extinction equation. *In addition, the default EPA natural conditions estimates have been supplemented with alternative natural conditions estimates, incorporating the revised IMPROVE light extinction equation and improved statistical analyses, to cover the greater number of IMPROVE monitoring sites and the associated increase in the available data. The effort by the VIEWS staff is largely on maintenance of the website at this point. The VIEWS project will be managed by the new Technical Analysis Forum beginning January 2007.*

Causes of Haze Assessment project (CoHA) - <http://coha.dri.edu/index.html> - this ongoing project of the Ambient Monitoring & Reporting Forum project is completing detailed analyses of IMPROVE and meteorological monitoring data in the WRAP region. Work to date includes multi-year back trajectory wind plots for each monitored Class I area, trajectory regression analyses' results used in the Phase I AoH project, and extensive descriptive information about the monitoring data and each Class I area. ***Work completed in 2006 includes trend analyses and receptor modeling using the Positive Matrix Factorization (PMF) technique to relate source types and regions to the 2000-04 baseline period monitoring data.*** Analyses of the long-term trends in the IMPROVE visibility data for monitoring sites with 8 to 16 years of record are available at: <http://coha.dri.edu/>. The CoHA project team has completed the 5-year (2000-04) back trajectory analyses for each IMPROVE site for various air quality conditions (worst/best visibility days, worst sulfate days, et cetera), expanding the 3-year trajectories already complete at: <http://coha.dri.edu/web/general/trajgallery/trajmapgallery.html>. CoHA has also completed an analysis of "was 2002 a typical/representative meteorological year"; that analysis and the 5-year trajectories will be used in the AoH Phase II project. The CoHA team has applied the PMF receptor modeling technique to 2000-04 IMPROVE data in the WRAP region, with the goal of identifying source types at the Class I areas, and specifically separating and determining the amount of smoke from fire emissions versus urban carbon emission. ***The CoHA project is moving into maintenance status for 2007; the Tribal Data Development Workgroup is sponsoring additional CoHA work on the representativeness of IMPROVE monitors for air quality impacts on tribal lands. The CoHA project will be managed by the new Technical Analysis Forum beginning January 2007.***

Emissions Data Management System (EDMS) - http://wapedms.org/default_login.asp - this ongoing project of the Emissions Forum is an emission inventory data warehouse and web-based GIS application that provides a consistent, complete, and regional approach to emissions data tracking to meet the requirements for SIP and TIP development, periodic progress reviews, and data updates. The EDMS serves as a central regional emissions inventory database for all types of emissions, and uses associated software to facilitate the data collection efforts for regional modeling, emissions tracking and associated data analyses. Baseline and future years' emissions data will be stored and accessed here. Use of the EDMS is based on user registration and periodic listserv updates, requires a password for ad-hoc data queries, but is open to all interested users.

The EDMS has been updated with 2002 point, area, mobile, and fire emissions, and EDMS will continue to have additional inventory data added. Testing of the EDMS for functionality and operational performance was completed by the end of 2005. During 2006, the EDMS was revised by the contractor, EH Pechan, to address concerns and problems found in the testing. The 2018 emissions inventories will be loaded into EDMS in early 2007. The Emissions Forum has completed a competitive bid process for operations and maintenance of the EDMS through 2007, and has selected a new contractor team – Air Resource Specialists and Air Sciences.

Regional Modeling Center (RMC) - <http://pah.cert.ucr.edu/aqm/308/> - the objective of this ongoing project of the Air Quality Modeling Forum is to provide the necessary technical and policy tools needed by states and tribes for the Regional Haze Rule. The substantial effort by the RMC is intended to support State and Tribal agencies in conducting regional haze analyses in the western United States. This analysis is being performed by operating regional scale, three-dimensional regulatory air quality models that simulate the emissions, chemical transformations, and transport of criteria pollutants and fine PM and consequent effects on visibility in Class I areas in the WRAP region and across North America. Responsibilities of the RMC include: 1) Emissions processing and modeling; 2) Air quality and visibility modeling simulations; 3) Analysis, display, and reporting of modeling results, and 4) Storage/quality assurance of the modeling input and output files. The RMC offers periodic listserv updates, provides data and technology transfer support, and uses monthly conference calls to review work products. ***A complete status report on RMC activities for the March 2005 through September 2006 period was completed in November, see:*** http://pah.cert.ucr.edu/aqm/308/reports/final/2006/WRAP-RMC_2006_report_FINAL.pdf.

The RMC will be managed by the new Technical Analysis Forum beginning January 2007. The RMC is developing a workplan and budget for 2007 to complete any needed additional regional modeling work or support the BART modeling needs of the states. The RMC completed regional emissions and air quality modeling in mid-2006. They have also largely completed “subject-to-BART” screening modeling for 6 WRAP states and EPA Region 8 (for MT sources). See the “BART CalPuff Modeling” tab at: <http://pah.cert.ucr.edu/aqm/308/bart.shtml> for input files and results. The RMC continues to support and track technology transfer of data and modeling tools through the “Data Transfer” tab at: http://pah.cert.ucr.edu/aqm/308/data_transfer.shtml.

Technical Support System (TSS) - <http://vista.cira.colostate.edu/wraptss/> - the TSS is now operational, developed as a project of the Attribution of Haze Workgroup (<http://wrapair.org/forums/aoh/TSS/index.html>) to provide a single portal to support regional haze planning using the regional technical data, analytical results, and tools prepared by the WRAP’s [Forums and Workgroups](#). *The TSS project will be managed by the new Technical Analysis Forum beginning January 2007.* The key data and summary results displayed on the TSS are intended to support the air quality planning needs of western state and tribes, and will be maintained and updated to support both the implementation of regional haze plans and other Western air quality analysis and management needs. The primary initial and ongoing purpose of the TSS is to be the one-stop shop for access, visualization, analysis, and retrieval of the technical data and regional analytical results prepared by WRAP Forums and Workgroups in support of regional haze planning in the West. The TSS specifically summarizes results and consolidates information about air quality monitoring, meteorological and receptor modeling data analyses, emissions inventories and models, and gridded air quality/visibility regional modeling simulations. These copious and diverse data are integrated for application to air quality planning purposes by prioritizing and refining key information and results into explanatory tools. Finally, a major goal of the TSS is to make the standard and user-specified maps, charts, tables, and graphs easily available for export, while maintaining the original source data available for verification and subsequent analysis through the TSS.

There is active collaboration with the Implementation Workgroup and all the WRAP Forums and Workgroups as to the content, format, and level of information detail on the TSS. A TSS web-based Training/Orientation session was completed February 15th. The TSS is built upon the foundation and uses tools and techniques developed for the VIEWS system described above; the WRAP plans to fund the TSS on an ongoing basis and maintain support of VIEWS functions through the TSS.

B) Overview of WRAP 2005-07 Key Technical Deliverables (March 2007 update, gray cells complete)

Time Frame	Responsible Group/Subject	Deliverable (completion target month)
2005 Q2	Emissions Forum	<ul style="list-style-type: none"> ▪ Operational version of Emissions Data Management System (EDMS) with actual 2002 EI for WRAP region. (done in September)
	Fire Forum (Phase 2 EI project)	Final 2002 complete fire EI – actual 2002 emissions, stored in EDMS. (completed July)
	Monitoring Forum (CoHA project)	<ul style="list-style-type: none"> ▪ Source apportionment of each state’s major emissions source category impacts at Class I areas in AoH report. (done) ▪ Descriptive analyses of 2002 monitored impact at Class I areas in AoH report. (done)
	Modeling Forum (source apportionment project)	<ul style="list-style-type: none"> ▪ Source apportionment of each state’s major emissions source category impacts at Class I areas in AoH report. (done) ▪ Initial source apportionment of each state’s natural and manmade emissions at Class I areas in AoH report. (done)
	Attribution of Haze WG	<ul style="list-style-type: none"> ▪ AoH Phase I Report complete – Integrated “weight of evidence” source attribution for each state’s emissions source category impacts at Class I areas, from TSSA and CoHA projects, based on 2002 “interim” (not EDMS) EIs. (done)
	Tribal Data Development WG	<ul style="list-style-type: none"> ▪ Tribal monitoring data analysis from CoHA project for tribal Class I areas in AoH report. (done)
	Stationary Sources Forum	<ul style="list-style-type: none"> ▪ List of BART-eligible sources (done) ▪ Emission Inventory and Control Technology Technical Support project underway (scheduled work completed)
	Dust Emissions Forum	<ul style="list-style-type: none"> ▪ Phase 2 windblown dust emissions inventory model completed, evaluated, and EI included in subsequent modeling analyses. (done) ▪ Host dust control measures workshop (done)

2005 Q3	Emissions Forum	<ul style="list-style-type: none"> ▪ Onroad, off-road, and road dust 2002, 08, 13, and 18 EI updates complete (completed October). ▪ 2002 and 2018 offshore shipping, locomotives, and planes' EIs complete (complete in early November) ▪ Complete second round of testing on EDMS performance (to be completed in December)
	Fire Forum (Phase 3 EI project)	<ul style="list-style-type: none"> ▪ 2000-04 baseline period fire EI based on modifying 2002 actual emissions developed for haze planning purposes. (modeling files and summary data delivered mid-October, final report Spring 2006)
	Monitoring Forum (CoHA project)	<ul style="list-style-type: none"> ▪ Continuing development of conceptual models and processing of additional IMPROVE data as inputs for the AoH Phase II project. (ongoing)
	Modeling Forum (2002 base case and source apportionment modeling projects)	<ul style="list-style-type: none"> ▪ Modeling performance evaluation using final actual 2002 emissions from SSJF/EF projects, and compared to monitoring data, as inputs to AoH Phase II. (completed November) ▪ Boundary conditions and new emissions estimates from WRAP Fire Forum, other RPOs, Canada, and Mexico updated. (completed September) ▪ Source apportionment underway, will not be complete until 2006, when a "final" 2002 actual emissions are run for Regional Haze Plans (mid-2006)
	Attribution of Haze WG	<ul style="list-style-type: none"> • AoH Phase II/Technical Support System = process 2002 source attribution report. (to be completed October 2006)
	Tribal Data Development WG	<ul style="list-style-type: none"> • Tribal monitoring needs draft report from CoHA project for tribal Class I areas. (done) ▪ Review, improve, project emissions inventories of point and oil/gas sources on tribal lands. (done)
	Stationary Sources Forum	<ul style="list-style-type: none"> ▪ Complete review and QA of the 2002 point and area source inventory. (done)
	Mobile Sources Forum	<ul style="list-style-type: none"> ▪ Continuing work on off-road retrofit program.
	Dust Emissions Forum	<ul style="list-style-type: none"> ▪ Establish a preliminary definition of dust and release for public review. ▪ Recommendations on appropriate size distribution of fine versus coarse dust emissions.
	In and Near Forum	<ul style="list-style-type: none"> • Summarize PM₁₀ SIPs for local sources and their transferability to Class I areas. (done)
2005 Q4	Emissions Forum	<ul style="list-style-type: none"> ▪ Evaluate EDMS testing results and develop action plan for ongoing management. ▪ Supervise contractor operation and needed improvements to EDMS.
	Fire Emissions Forum (Phase 4 EI project)	<ul style="list-style-type: none"> ▪ Identify inputs and scope out 2018 fire EI scenarios for haze planning purposes - 2018 fire EIs will consist of 3 scenarios, using as inputs: ag burning rules on the books, applying Emissions Reduction Techniques for prescribed fire, and forecasts for wildfire/wildland fire use/prescribed fire from Federal Land Managers. (to be completed Spring 2006)
	Monitoring Forum (CoHA)	<ul style="list-style-type: none"> ▪ PMF analyses and processing of additional data as inputs to AoH Phase II. (to be complete mid-2006)
	Modeling Forum (2018 base case modeling project)	<ul style="list-style-type: none"> ▪ Modeling evaluations (version A) using 2004-04 baseline period emissions as input to AoH Phase II (December) ▪ Modeling evaluations (version A) using 2018 base case emissions as inputs to AoH Phase II (January)

	Attribution of Haze WG	<ul style="list-style-type: none"> ▪ Publish preliminary IMPROVE monitoring data from 2000-04 for glide path. (November) ▪ Publish proposed Weight of Evidence source attribution method for assessing Reasonable Progress, using technical monitoring, emissions, and modeling data
	Stationary Sources Forum	<ul style="list-style-type: none"> ▪ Complete work on first version of oil/gas and point/area source 2018 base case EI projection scenarios. (October/November)
2006 Q1	Emissions Forum	<ul style="list-style-type: none"> ▪ Complete continuing needed improvements to EDMS. ▪ Supervise contractor operation and needed improvements to EDMS.
	Fire Emissions Forum	<ul style="list-style-type: none"> ▪ Phase 4 EI project - 2018 fire EI scenarios for haze planning purposes - 2018 fire EIs will consist of 3 scenarios, using as inputs: ag burning rules on the books, applying Emissions Reduction Techniques for prescribed fire, and forecasts for wildfire/wildland fire use/prescribed fire from Federal Land Managers. (to be completed Spring 2006) - to be complete 2007 Q1 ▪ Fire Tracking System development – scoping study to determine best existing system in use now, and needed modifications. (March) - completed October 2006
	Monitoring Forum (CoHA project)	<ul style="list-style-type: none"> ▪ Continue work on products for AoH Phase II report. ▪ Work on analysis of 2002 meteorology representativeness - to be complete 2007 Q1
	Modeling Forum	<ul style="list-style-type: none"> ▪ Modeling evaluations (version B) using 2004-04 baseline period emissions as input to AoH Phase II (April) – completed May 2006 ▪ Source apportionment (PSAT modeling) of each state’s 2000-04 major emissions source category impacts at Class I areas for AoH Phase II report. (to be complete in July) ▪ Modeling evaluations (version B) using 2018 base case emissions as inputs to AoH Phase II (May) ▪ Source apportionment (PSAT modeling) of each state’s 2018 base case B major emissions source category impacts at Class I areas for AoH Phase II report. (to be complete in July) ▪ Develop 2006-07 work plan - to be complete 2007 Q1 ▪ Begin preparation of documentation for BART CalPuff modeling support – completed August 2006 ▪ Continue emissions processing to correct 2018 base case and develop 2018 control strategy EIs.
	Attribution of Haze WG	<ul style="list-style-type: none"> ▪ AoH Phase II – continue development of integrated Weight of Evidence source attribution method example graphics. (March) ▪ TSS alpha version roll-out. (January)
	Stationary Sources Forum	<ul style="list-style-type: none"> ▪ Determine interest in evaluating regional backstop or active cap and trade program for point sources. ▪ Continue work on BART analysis coordination, control strategy development and evaluation.
	Dust Emissions Forum	<ul style="list-style-type: none"> ▪ Complete definition of dust – completed January 2007 ▪ Begin PM10 Dust Regional Haze Pilot SIP project for Salt Creek Wilderness in SE New Mexico – completed October 2006

2006 Q2	Emissions Forum	<ul style="list-style-type: none"> Complete continuing needed improvements to EDMS. Supervise contractor operation and needed improvements to EDMS. EDMS updated with 2018 base case EI data. (May-June) – underway 2007 Q1
	Fire Emissions Forum	<ul style="list-style-type: none"> Complete Phase 4 EI project - to be complete March 2007 Fire Tracking System development – started January 2007
	Monitoring Forum (CoHA)	<ul style="list-style-type: none"> PMF results and other work products to support AoH report.
	Modeling Forum (RMC)	<ul style="list-style-type: none"> Continuing source apportionment of each state’s 2018 major emissions source category impacts at Class I areas, associated with control strategy scenarios. Source apportionment of each state’s natural and manmade emissions at Class I areas. Conduct sensitivity modeling results from applying BART EGU presumptive limits for WRAP region, and other similar modeling studies.
	Attribution of Haze WG	<ul style="list-style-type: none"> Continue work on AoH Phase II/TSS projects. TSS training/orientation session. (April 27th)
	Stationary Sources Forum	<ul style="list-style-type: none"> Determine interest in evaluating regional backstop or active cap and trade program for point sources. Begin work on refining Oil & Gas emissions inventories – started December 2006 Continuing emissions analyses for 2018 control strategy scenarios.
	Dust Emissions Forum	<ul style="list-style-type: none"> Continue work on PM10 Dust Regional Haze Pilot SIP project for Salt Creek Wilderness in SE New Mexico, incorporating Dust Definition project methodology – completed October 2006
2006 Q3	Emissions Forum	<ul style="list-style-type: none"> Supervise contractor operation and needed improvements to EDMS.
	Fire Emissions Forum	<ul style="list-style-type: none"> Fire Tracking System development – started January 2007
	Monitoring Forum (CoHA)	<ul style="list-style-type: none"> Complete work products to support AoH report.
	Modeling Forum (2018 control strategy modeling project)	<ul style="list-style-type: none"> Continue control strategy modeling analyses of sources’ and each state’s 2018 major emissions source category at Class I areas, associated with control strategy scenarios. - deferred to mid-2007 Complete source apportionment of each state’s natural and manmade emissions at Class I areas.
	Attribution of Haze WG	<ul style="list-style-type: none"> Complete work on AoH Phase II projects, integrating work products from EF, MF, AMRF, SSJF, FEJF, TDDWG, & DEJF for IWG use through the TSS. (September-October) completed late October
	Stationary Sources Forum	<ul style="list-style-type: none"> BART coordination
	Dust Emissions Forum	<ul style="list-style-type: none"> Complete work on PM10 Dust Regional Haze Pilot SIP project for Salt Creek Wilderness in SE New Mexico, incorporating Dust Definition methodology, incorporate results on TSS. – planned for 2007
2006 Q4	Emissions Forum	<ul style="list-style-type: none"> Supervise contractor operation and needed improvements to EDMS – hired new contractor from competitive bid November 2006
	Fire Emissions Forum	<ul style="list-style-type: none"> Fire Tracking System development - started January 2007

	Monitoring Forum (CoHA)	<ul style="list-style-type: none"> CoHA operating at maintenance level.
	Modeling Forum (RMC)	<ul style="list-style-type: none"> Continue control strategy modeling analyses of sources' and each state's 2018 major emissions source category at Class I areas, associated with control strategy scenarios - deferred to mid-2007 3/05 through 9/06 report completed
	Attribution of Haze WG	<ul style="list-style-type: none"> Release version 1 of fully operational TSS and data results (October) Routine operation of TSS (ongoing, with periodic data and version updates).
	Stationary Sources Forum	<ul style="list-style-type: none"> BART coordination Develop SoW for Oil and Gas Phase II EI project.
	Dust Emissions Forum	<ul style="list-style-type: none"> Complete definition of dust – completed January 2007
2007 Q1	Emissions Forum	<ul style="list-style-type: none"> Supervise contractor operation and needed improvements to EDMS.
	Fire Emissions Forum	<ul style="list-style-type: none"> Fire Tracking System - development to start January 2007
	Technical Analysis Forum	<ul style="list-style-type: none"> CoHA operating at maintenance level. Routine operation of TSS (ongoing, with periodic data and version updates). Regional modeling simulation of Preliminary Reasonable Progress to start March 2007.
	Stationary Sources Forum	<ul style="list-style-type: none"> BART coordination Complete Oil and Gas EI Phase II project.
	Dust Emissions Forum	<ul style="list-style-type: none"> Complete definition of dust feasibility project – completed January 2007
	Tribal Data Development WG	<ul style="list-style-type: none"> Begin work on IMPROVE site representativeness for tribal lands - Phase II Begin Pilot project for Tribal use of TSS Begin Tribal assistance project for review of Haze SIPs
2007 Q2	Emissions Forum	<ul style="list-style-type: none"> EDMS operations EDMS training
	Fire Emissions Forum	<ul style="list-style-type: none"> Fire Tracking System - development continues
	Technical Analysis Forum	<ul style="list-style-type: none"> CoHA operating at maintenance level. Routine operation of TSS (ongoing, with periodic data and version updates). Regional modeling simulation of Preliminary Reasonable Progress to be completed May 2007. TSS Workshop June 19-20
	Stationary Sources Forum	<ul style="list-style-type: none"> O&G EI Phase II project report + data summary BART coordination
	Dust Emissions Forum	

	Tribal Data Development WG	<ul style="list-style-type: none"> ▪ Work continues on IMPROVE site representativeness for tribal lands - Phase II ▪ Pilot project for Tribal use of TSS ▪ Tribal assistance project for review of Haze SIPs
2007 Q3	Emissions Forum	<ul style="list-style-type: none"> ▪ EDMS operations ▪ Regional Haze EIs – Lessons Learned Workshop mid-September
	Fire Emissions Forum	<ul style="list-style-type: none"> ▪ Fire Tracking System on-line, training ▪ Regional Haze EIs – Lessons Learned Workshop mid-September
	Technical Analysis Forum	<ul style="list-style-type: none"> ▪ CoHA operating at maintenance level. ▪ Routine operation of TSS (ongoing, with periodic data and version updates). ▪ Regional modeling simulations as needed ▪ Regional Haze EIs – Lessons Learned Workshop mid-September
	Stationary Sources Forum	<ul style="list-style-type: none"> ▪ BART coordination ▪ Regional Haze EIs – Lessons Learned Workshop mid-September
	Dust Emissions Forum	<ul style="list-style-type: none"> ▪ Regional Haze EIs – Lessons Learned Workshop mid-September
	Tribal Data Development WG	<ul style="list-style-type: none"> ▪ Work continues on IMPROVE site representativeness for tribal lands - Phase II ▪ Pilot project for Tribal use of TSS ▪ Tribal assistance project for review of Haze SIPs

C) 2007 Technical Analysis Plan (March 2007 update)

Table 1. All technical activities of WRAP in 2007 (periodic updates will occur)

Month	Activities	Forums/Workgroups
January	Visibility Projections/Monitoring Metrics method review http://www.wrapair.org/forums/taf/meetings/070108c/Applying_Monitoring_Metrics_for_Regional_Haze_Planning_%201_5_2007%20final%20draft.pdf	TAF
	IMPROVE data substitutions complete http://wrapair.org/forums/aoh/meetings/061102m/WRAP_data_substitution_methods_draft_110206.pdf	TAF
	TSS, CoHA, RMC operations http://vista.cira.colostate.edu/tss/ http://www.coha.dri.edu/ http://pah.cert.ucr.edu/aqm/308/	TAF
	Fire Tracking System development	FEJF
	EDMS operations http://www.wrapedms.org/default_login.asp	EF
	O&G EI Phase II project http://wrapair.org/forums/ssjf/documents/eictts/oilgas.html	SSJF
	Tribal WG projects	TDDWG + WRAP staff
February	TSS, CoHA, RMC operations http://vista.cira.colostate.edu/tss/ http://www.coha.dri.edu/ http://pah.cert.ucr.edu/aqm/308/	TAF
	Review and approval of RMC 2007 Workplan http://wrapair.org/forums/taf/meetings/070226c/RMC_2007_workplan_final.pdf	TAF
	Visibility Projections/Monitoring Metrics method final review draft http://wrapair.org/forums/taf/meetings/070226c/Applying_Monitoring_Metrics_for_Regional_Haze_Planning_%20February_23_2007_finalreviewdraft.pdf	TAF
	Implement IMPROVE data substitutions and visibility projections tool http://vista.cira.colostate.edu/TSS/Tools/ModelingResults.aspx , select “Modeling Projections (Scaled by RRFs)” tab	TAF
	Fire Tracking System development http://wrapair.org/forums/fejf/meetings/070222m/FEJF_20070223_130p.pdf	FEJF
	EDMS operations - Review and approve EDMS Critical Functionality Analysis and schedule for work	EF
	O&G EI Phase II project http://wrapair.org/forums/ssjf/documents/eictts/oilgas.html	SSJF
Preliminary Reasonable Progress 2018 EI updates	WRAP staff + states	
Tribal WG projects	TDDWG + WRAP staff	

March	TSS, CoHA, RMC operations Begin RMC Emissions Modeling for PRP analysis Fire Tracking System workplan EDMS operations O&G EI Phase II project Preliminary Reasonable Progress 2018 EI updates Tribal WG projects	TAF TAF FEJF EF SSJF WRAP staff + states TDDWG + WRAP staff
April	TSS, CoHA, RMC operations TSS training on Reasonable Progress Weight of Evidence tool for IWG Complete RMC Emissions Modeling for PRP analysis Fire Tracking System development O&G EI Phase II project report + data summary Preliminary Reasonable Progress 2018 EI report + data summary Tribal WG projects	TAF TAF TAF FEJF SSJF WRAP staff + states TDDWG + WRAP staff
May	TSS, CoHA, RMC operations RMC Air Quality Modeling for PRP analysis Fire Tracking System development EDMS operations TSS display of Preliminary Reasonable Progress 2018 EI data summary Tribal WG projects	TAF TAF FEJF EF TAF TDDWG + WRAP staff
June	TSS, CoHA, RMC operations Output RMC Air Quality Modeling PRP analysis results to TSS TSS Workshop Fire Tracking System online (training?) EDMS operations Tribal WG projects	TAF TAF TAF FEJF EF TDDWG + WRAP staff
July	EDMS operations (training?) Other activities TBD	EF
August	TBD	
September	Regional Haze EIs – Lessons Learned Workshop	SSJF, EF, FEJF, DEJF

Table 2. WRAP technical activities specific to completion of Preliminary Reasonable Progress Analysis (March, periodic updates will occur)

Month	Responsible Group	Activity/Deliverable
January 2007	Implementation WG	1) Began work on RP analysis dry run for at least one Class I area in each state 2) Reviewed SoW for Point/Area PRP EI analysis
	Technical Analysis Forum	Reviewed visibility projections and monitoring metrics recommendations
	Emissions Forum	Reviewed SoW for Point/Area PRP EI analysis
	Dust Emissions Forum	Completed Definition of Dust Project
	Fire Forum	Began review of final work products on Phase III/IV EIs, FTS evaluation, and RPO Wildfire EI
	Stationary Sources Forum	1) Reviewed SoW for Point/Area PRP EI analysis 2) O&G EI Update Project – gathered input from producers
	WRAP Staff	Scoped out any needed update to 2018 mobile source EI projections
February	Implementation WG	1) Continued work on RP analysis dry run for at least one Class I area in each state 2) “How to drive” TSS training – February 15 th 3) Began review of “WRAP Reasonable Progress Demonstration Method”
	Technical Analysis Forum	1) Completed data substitutions for baseline values 2) Finalized RMC modeling workplan
	Emissions Forum	
	Dust Emissions Forum	
	Fire Forum	1) Reviewed & approved workplan outline for Fire Emissions Tracking System inside TSS 2) Discuss and approve task to prepare technical memo about analysis/modeling fire emissions for haze planning
	Stationary Sources Forum	Continuing work on BART analyses
March	Implementation WG	1) Coordinate state staff review of contractor results for Point/Area PRP EI analysis 2) Continue review and discussion of “WRAP Reasonable Progress Demonstration Method”
	Technical Analysis Forum	1) RMC begins receiving and processing modeling input files from EI updates 2) Complete and publish visibility projections and monitoring metrics recommendations
	Emissions Forum	
	Dust Emissions Forum	
	Fire Forum	Continue work on Fire Emissions Tracking System inside TSS
	Stationary Sources Forum	
	WRAP Staff	Complete needed updates to 2018 mobile source EI projections

April	Implementation WG	<ol style="list-style-type: none"> 1) Review completed Point/Area PRP EI analysis project, report and pivot tables 2) Review and discussion of “WRAP Reasonable Progress Demonstration Method” 3) Meeting April 17-19 to present RP “dry runs” and discuss related topics 4) “Reasonable Progress Demonstration Analysis” TSS tool training – second week of April
	Technical Analysis Forum	<ol style="list-style-type: none"> 1) Complete model input processing of PRP point/area EI data 2) Post and integrate pivot tables in TSS tools 3) Provide “Reasonable Progress Demonstration Analysis” TSS tool training to IWG
	Emissions Forum	
	Dust Emissions Forum	
	Fire Forum	
	Stationary Sources Forum	Complete Point/Area PRP EI analysis project, report and pivot tables
	WRAP Staff	
May	Implementation WG	Finalize and publish “WRAP Reasonable Progress Demonstration Method”
	Technical Analysis Forum	<ol style="list-style-type: none"> 1) Execute and complete AQ modeling of PRP EI data 2)
	Emissions Forum	
	Dust Emissions Forum	
	Fire Forum	
	Stationary Sources Forum	
	WRAP Staff	
June	Implementation WG	
	Technical Analysis Forum	<ol style="list-style-type: none"> 1) TSS technical meeting June 19-20, Denver 2) Complete display of PRP EI and modeling data into TSS 3) Initial version of Fire Emissions Tracking System on-line
	Emissions Forum	
	Dust Emissions Forum	
	Fire Forum	
	Stationary Sources Forum	
	WRAP Staff	
July		
	WRAP Staff	

D) Highlights of selected analyses and projects related to regional haze planning (March 2007)

The Dust Emissions Joint Forum's report: [Final Feasibility Analysis of the Implementation of the WRAP's Dust Definition](#) was completed January 2007. The goal of this project was to evaluate the feasibility of applying the WRAP's draft dust definition, particularly for delineating anthropogenic from natural sources of dust. The report describes criteria and related data and methods that could be used in this delineation. It also provides conclusions as to the general level of feasibility for implementing the draft dust definition for regional haze purposed based on readily available data and methods for each source type.

With assistance from the Dust Emissions Joint Forum, the New Mexico Environment Department completed the [NM Dust SIP Pilot for the Salt Creek Wilderness Area](#) in October 2006.

The Fire Emissions Joint Forum has recently released draft reports:

Fire Emissions Inventories for Regional Haze Planning - [Draft Report](#)

This report describes the methods used and results from the 2000-04 Baseline Period and 2018 Projection Year Fire Emission Inventories (EIs) project. The purpose of this project is to develop fire EIs for regional haze planning purposes. The inventories are intended to be representative of fire emissions during the Regional Haze Rule (RHR) baseline monitoring period (2000-04) and to describe potential fire activity scenarios for the RHR initial projection year of 2018. The EI data files and air quality planning suites produced for this project are to be used for regional dispersion modeling analyses and to populate the WRAP's Emissions Data Management System. In addition, the deliverables for this project are intended to provide necessary, timely, and sufficient documentation for use by WRAP members for use in assessing the need, structure, and scope of fire and smoke emissions management programs in the haze implementation plans due by the end of 2007. The Fire Emissions Joint Forum invites review and comment on this report (and the associated model-ready and emission inventory files posted at <http://airsci.net/wrap/Phase3-4-Dec14-2006/index.html>).

Fire Tracking Systems Evaluation draft project report - The evaluation of existing fire tracking systems project is a thorough analysis to assess existing systems and determine the feasibility of and costs associated with modification of existing systems to meet the WRAP's requirements identified in the WRAP's Fire Tracking System Policy. The report documents the methods used to analyze existing FTS, presents the results of the analysis, and provides recommendations to the FEJF/WRAP on how to proceed with developing a Fire Emissions Tracking System. See:

http://wrapair.org/forums/fejf/documents/fts/Final_Draft_Report_%20FTS_Eval_20070221.pdf

The Stationary Sources Joint Forum Phase II oil and gas emissions inventory project materials are found at: <http://wrapair.org/forums/ssjf/documents/eiccts/oilgas.html>

The Technical Analysis Forum began operations in January 2007, combining project oversight and analysis responsibilities formerly distributed between the Ambient Monitoring and Reporting Forum, the Air Quality Modeling Forum, and the Attribution of Haze Workgroup. See the TAF page at:

<http://wrapair.org/forums/taf/>.