

WRAP Projects Report

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WESTAR Council

WRAP Membership Meeting
Boise, ID



WRAP Regional Technical Analysis & Planning Support

- Interconnected series of regional technical projects
- Management of ongoing emissions and modeling studies
 - Reviewed / coordinated with federal agencies, states, locals, tribes
- Coordination activities:
 - With WESTAR Planning and Technical Committees to identify needs and SIP applications
 - Through re-energized WRAP Technical Steering Committee
 - Reporting of results to federal agencies providing grants
- Planning for San Joaquin Valley UAQMD / WRAP / EPA Western Modeling Workshop (Spring 2015, near Yosemite)

WRAP projects' active as of Spring 2014

- JSFP – Fire Impacts on Particulate Matter
- MT-Dakotas BLM – completion of O&G Emissions Inventory
- BLM-API 1-hour NO₂ Drill Rig Study
- 3-State Air Quality Study coordination
- EPA Regional Technical Support grant resources for air quality/RHR planning and membership support

Joint Fire Sciences Program

PMDETAIL Project – Fire Impacts on Particulate Matter

- Project re-started in Feb. after transfer by JFSP
- Contractor team in place
- <https://pmdetail.wraptools.org/>
- Milestones
 - Analysis through Spring 2015
 - Webinars and user review Summer 2015
 - Reports / website tools updates complete by Fall 2015
- Based on WRAP Fire Emissions Tracking System

PMDETAIL project - purpose

- Assess fire's impact on elevated PM episodes with retrospective studies
 - Studies of fire and associated PM impacts: 2002 through 2011
 - Provide data and web tools for states and feds to use for:
 - Exceptional Events analyses
 - Annual Fire Planning at landscape scale for smoke management
 - SIP support



Project Report – PMDETAIL

Fire Impacts on Particulate Matter

- Analysis activities
 - Filter markers (IMPROVE, CSN, PM2.5 FRM)
 - 2011 Modeling
 - Fire inventories for 2009 through 2013
 - Future episodes for range of future fire scenarios
 - Fire/PM Impacts matrix

WRAP Tools:

WRAP FETS

Explore current fire activity in the WRAP region.

DEASCO₃

Learn about fires' contribution to Ozone (O₃).

PMDetail

Learn about fires' contribution to Particulate Matter (PM).

wraptools.org

Western Regional Air Partnership
Joint Fire Sciences Program



MT-Dakotas BLM – completion of O&G Emissions Inventory

- Project work through WGA concluded in Jan.
- New award by BLM to WESTAR in May
- Contractor in place
- <http://www.wrapair2.org/ND-SD-MT.aspx>
- Milestones
 - Analysis of EPA Tribal Minor Source data - Summer 2014
 - Reports preparation and review - Summer 2014
 - Final workshop / Work products – September 2014
- Based on surveys and extensive data collection / analysis in 2013 under earlier WGA-BLM effort



MT-Dakotas BLM – completion of O&G Emissions Inventory - Purpose

- Key source category - exploration and production activity continue to increase and change
- More complete inventory data
- Ready for use in NEPA, OAQPS national and western modeling
- Linkages
 - 3-State Air Quality Study
 - EPA Oil & Gas Emissions tool for 2011 NEI

MT-Dakotas BLM – completion of O&G Emissions Inventory - Project Report –

- Analysis activities
 - 2011 base year
 - 2015 projections
 - State and EPA permit data
 - Detailed operator surveys for unpermitted sources
 - Provides:
 - Improved / more complete inventory for rapidly changing production basins
 - Support for BLM planning through NEPA
 - First application of Tribal Minor Source data reported by EPA

BLM-API 1-hour NO₂ Drill Rig Study

- Workplan development funding from API - late 2013
- Application to BLM for staff support funding – May 2014
- Developing RFP for contractor support of field study sites (data collection) and data analysis
- Milestones
 - Field studies – Summer and Fall 2014
 - Data analysis for modeling evaluation by EPA, state, and other modelers – Winter 2014-15
 - Prepare revised emissions factors / reports – Spring 2015

BLM-API 1-hour NO₂ Drill Rig Study

- Study status
 - ~10 O&G drill rig operators contacted
 - Potential Study Locations
 - Alaska North Slope – start June
 - Denver-Julesburg Basin in July-August
 - Greater Green River, San Juan, or Williston in Fall
 - Test / training rig in Catoosa, OK – Fall
 - Next steps
 - RFP for field study data collection / analysis support

Federal Leadership Forum / 3-State Air Quality Study

- Project re-started in Feb. after transfer
- 2014-17 work planning process ongoing
- <http://views.cira.colostate.edu/tsdw/>
- Milestones
 - Complete pilot study development – Summer 2014
 - Rollout of Data Warehouse to operational status – Sept.
 - Next phase of analysis for 2011 base year studies – Oct. through July 2015
 - Preparation and data collection for 2014 studies – second half of 2015



Federal Leadership Forum / 3-State Air Quality Study

- WY, CO, UT, EPA, BLM, NPS, and USFS
- Implementation of 3-State and national MOUs - objectives:
 - Facilitate more complete and consistent air quality analysis for NEPA and other air quality decisions
 - Improve timeliness
 - Reduce duplication of air quality analyses resulting in lower costs
 - Improve collaboration
- Planning for air quality impacts of energy development
 - Ozone focus, additional rural monitoring stations in oil & gas basins
 - Includes data to help with wintertime ozone nonattainment areas
 - Integrates results from WestJumpAQMS and Oil & Gas projects
 - Data warehouse to support future air quality modeling and other analyses

Federal Leadership Forum / 3-State Air Quality Study

- Status - extensive technical project work continuing
 - Monitoring network assessment completed Spring 2014
 - Operational data warehouse, in-house modeling capability, and data transfer for NEPA modeling studies in Summer 2014
 - Ongoing work to coordinate 3-State Study done through cooperative agreement
- Next steps on project activities
 - Quarterly technical workshops
 - New 2014-17 workplan for data warehouse operations / study
 - Open Data Warehouse and access capability to outside users
 - Requirements to present uses of data and return analysis results to Data Warehouse

Projects in development

- Regional Modeling Framework for Regional Haze and other western regional air quality planning
 - Use EPA Regional Technical Support grant resources to plan and scope
 - Extend 3-State Data Warehouse capabilities
- New Fire and PM Organic Aerosol study proposal to Joint Fire Sciences Program
 - Proposal submitted Dec. 11, 2013
 - Still under consideration