

WRAP Spring Membership Meeting
Boise, ID
May 29, 2014

National Park Service
Air Resources Division &
Intermountain Region

Current/Ongoing NPS Technical Analyses

- Rocky Mountain Atmospheric Nitrogen & Deposition Study (ROMANS) – 2009 ambient monitoring complete, analysis & modeling ongoing
- Grand Trends (Grand Teton Reactive Nitrogen Deposition Study) & Greater Yellowstone Study – 2011 monitoring complete, analysis wrapping up
- Multi-resource integrated assessment – uses 2008 WESTJUMP
- Source Apportionment for Deposition in Intermountain West – uses 2011 Three State Study
- Bakken formation O&G development impact on North Dakota NPS areas - 2013 & 2014 monitoring wrapping up, modeling to make use of 2014 Three State Study

NPS Technical Interests

- Improved emission inventories, especially for oil and gas activity and ammonia
- Continuing improvement in characterizing winter-time ozone
- Photochemical grid model inputs at least every three years, especially currently for 2014
- More attention to visibility and atmospheric deposition

More NPS Technical Interests

- Improved understanding of & improvements in U.S. boundary conditions
- Better understanding of when to use particular photochemical model
- Better treatment of ammonia in photochemical models for deposition and visibility

Current / Ongoing Three State Study Technical Work

- Refinements to 2008 WESTJUMP emissions & CAMx modeling
- Develop 2011 emission inventory
- Develop 2020 projection
- Perform 2011 meteorological and air quality modeling
- Data warehouse development
- Continue ozone monitoring

Three State Study – Technical Needs Identified in Work Plan

- Operate and maintain data warehouse
- Augment current State, Tribal & Federal ozone monitoring efforts
- Perform additional work using 2011 modeling platform beyond the basics in pilot phase
 - Run CMAQ
 - Source apportionment / sensitivity analyses
 - Winter ozone

Three State Study – Technical Needs Identified in Work Plan Continued

- Develop 2014 emission inventory
- Develop future year inventories
- Perform meteorological & air quality modeling