

Intermountain West Data Warehouse - Western Air Quality Study (IWDW-WAQS) Procedures



- 1. Introduction**
 - 1.1. Project Overview**
 - 1.1.1. Cooperating agencies
 - 1.1.2. Purpose
 - 1.1.3. Scope
 - 1.1.4. Outcomes
 - 1.1.5. Marketing and Outreach
 - 1.2. Project Background**
- 2. IWDW-WAQS Management and Operations**
 - 2.1. Governing Board**
 - 2.1.1. Purpose, mission, duties
 - 2.1.2. Memorandum of Understanding
 - 2.2. Oversight Committee**
 - 2.2.1. Purpose, missions, duties
 - 2.2.2. Password Protected website area
 - 2.2.3. Membership and contact information
 - 2.3. Technical Committee**
 - 2.3.1. Purpose, missions, duties
 - 2.3.2. Website area
 - 2.3.3. Membership and contact information
 - 2.4. Project Coordination**
- 3. Work Groups**
 - 3.1. Standing**
 - 3.1.1. WAQS MPE
 - 3.1.2. IWDW Operations
 - 3.1.3. IWDW Stewards
 - 3.2. Ad-hoc**
 - 3.2.1. IWDW Tools
 - 3.2.2. Monitoring Network Assessment
- 4. Modeling Activities**
 - 4.1. Meteorology**
 - 4.1.1. Configuration
 - 4.1.2. MPE
 - 4.2. Emissions**
 - 4.2.1. QA
 - 4.2.2. Base & future year projections
 - 4.3. Air Quality**
 - 4.3.1. Sensitivity Studies
 - 4.3.2. Base & future year modeling
 - 4.3.3. MPE
 - 4.4. Source Apportionment**
 - 4.5. WAQS Modeling Platforms**
 - 4.5.1. 2008b
 - 4.5.2. 2011a
 - 4.5.3. 2011b
 - 4.5.4. 2014a

5. Data Warehouse

5.1. Synergies

5.2. Data

- 5.2.1. Monitoring
 - 5.2.1.1. Standard Networks
 - 5.2.1.2. Special Studies
- 5.2.2. WAQS Modeling Results
 - 5.2.2.1. Meteorological
 - 5.2.2.2. Emissions
 - 5.2.2.3. Air Quality
 - 5.2.2.4. Source Apportionment
- 5.2.3. External Modeling Studies
 - 5.2.3.1. ARMS
 - 5.2.3.2. CARMMS/Mancos Shale
 - 5.2.3.3. RAQC O3 SIP
- 5.2.4. GIS {shape files relevant to WAQS modeling and applications}

5.3. Tools

- 5.3.1. Data Delivery
- 5.3.2. Data Visualization
- 5.3.3. Metadata
- 5.3.4. GIS {development}
 - 5.3.4.1. Metadata
 - 5.3.4.2. Emissions
 - 5.3.4.3. PGM output {plan for next phase of IWDW}

5.4. Operational Needs

- 5.4.1. Computing Hardware
 - 5.4.1.1. FTP server
 - 5.4.1.2. Database server
 - 5.4.1.3. Web server
- 5.4.2. Website and Database software
- 5.4.3. Data Transfer
- 5.4.4. Data Storage

5.5. Data Request status report

5.6. Staffing

6. Appendices

6.1. Timelines

- 6.1.1. Project
- 6.1.2. WAQS Modeling
- 6.1.3. IWDW Tools

6.2. WAQS/3SAQS Documents

- 6.2.1. Modeling Protocols
- 6.2.2. Model Performance Evaluation

6.3. IWDW Documents

- 6.3.1. Status Reports
- 6.3.2. Modeling Wiki
- 6.3.3. Data Warehouse Wiki

6.4. Diagrams

- 6.4.1. WAQS Modeling DSS
- 6.4.2. IWDW Web infrastructure DSS -> code behind, db architecture
- 6.4.3. IWDW web architecture

- 6.4.4. Modeling Studies -> NEPA and other modeling applications
- 6.4.5. IWDW Data Requests and Projects

6.5. IWDW -> tools & resources

- 6.5.1. Data
 - 6.5.1.1. Bulk Data
 - 6.5.1.2. Emissions Data
 - 6.5.1.3. Modeling Data
 - 6.5.1.4. Monitoring Data
 - 6.5.1.5. Metadata
- 6.5.2. Resources
 - 6.5.2.1. Reference Documentation
 - 6.5.2.2. Community and Support
 - 6.5.2.3. Warehouse Operations and Management