Fact Sheet

A General Relational Model to Organize Water Management Data (WaM-DaM)

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Purposes

- Permanently organize, store, and synthesize water management data
- Serve data to run models (in progress)

Key Design Principles

1. Modular design
2. Accommodate multiple data formats
3. Extensible controlled vocabulary
4. Support metadata, networks, and scenarios
5. Relational organization
6. Open-source

Uses to Date

- Integrate 1 Utah and 4 National data sets
- Identify available data to expand an existing model for the lower Bear River, Utah to the entire Bear River basin
- Reveal discrepancies across data sources in reservoir attribute values
- Show physical connectivity of water system components
- Retrieve and show differences in input data values for two scenarios

Next Steps

- Build generic data loader (GUI to register native vocabulary against WaM-DaM controlled vocabulary)
- Build generic data exporter (GUI to select relevant data and serve to a registered model in appropriate formatting)

Further Info

- Source code and documentation@https://github.com/amabdallah/WaM-DaM
- Email: amabdallah@aggiemail.usu.edu and david.rosenberg@usu.edu
- Comments: http://bit.ly/1Z5nKQI