

**Notes from URGWOM Steering Committee Meeting; October 12, 2000;
10:00 AM; Corps of Engineers Conference Room, Albuquerque**

In attendance:

Ellen Dietrich, SAIC	Gail Stockton, Corps
Rhea Graham, NMISC	Tim J. Ward, UNM
Charles Lujan, Pueblo of San Juan	Dave Wilkins, USGS
William J. Miller, WJM Engineering, Inc.	

- ❖ Status of URGWOM development and Technical Team activities—Dave Wilkins. Dave distributed and discussed a handout prepared by Mark Yuska. It is attached to these notes. Additional discussion is summarized below.
 - The revised WaterOps model that makes diversions, losses, and return flows consistent in the middle valley addresses the problem with carrying figures for negative flows downstream that was brought up at the September Steering Committee meeting. Negative flows are now set to zero.
 - In order to set up the model for verification, calculation of lags must be revisited. The Technical Team has found that lags vary widely, depending on the method of calculation. The team is concentrating on looking at peak flows and reviewing 15-minute hydrographs. Verification will not be done until they determine and fix the problem.
 - Gail asked what is the difference between verification and validation.
 - Verification—checking the model to determine that the model is working correctly.
 - Validation—checking to ensure that the model works with real data other than that used to verify it. Validation of URGWOM will be conducted using 1998-1999 data.
 - Tim Ward asked what parameters will be used by the Technical Team to validate the model.
 - Dave responded that the Technical Team must discuss the criteria to be used because they have not decided exactly what will be used. They do plan to use the completed leakage and wastewater calculations to verify the model, then use the 1975-1984 historical data to validate.
 - Tim recommended that the Technical Team identify the criteria so people can evaluate how the validation was done. For example, if they know that the Technical Team expected all flows to be accurate within 10% per year, they can independently check on model precision within reasonable limits.
 - Another validation of the model could be to run snowmelt runoff forecasting through different hydrographs to route through RiverWare and predict the flows from NRCS data for a different year.
 - San Juan-Chama water accounting runs look good. The Technical Team will use data from 2000 next, to validate.
- ❖ Fiscal Year 2001 budget:
 - Gail Stockton reported that the Energy and Water Bill that contains URGWOM funding has been vetoed, so new funding has been delayed. The federal agencies are operating under a continuing resolution.

- Dave reported that the USGS funding for URGWOM may come directly from the Bureau of Reclamation to USGS this year, instead of from the Corps as it has done in the past. This would provide an opportunity to increase the level of matching funds.
 - The City of Albuquerque may increase its funds for matching USGS funds that go into the URGWOM project. These funds are used mainly for salaries.
- ❖ In the Upper Rio Grande Basin Water Operations Review public scoping meetings, a question has arisen on whether URGWOM will include water quality in the model. The response has been that this would be a future enhancement.
 - Dennis Romero has submitted a proposal to CADSWES to model water quality in more detail than it does now. His hope is to get funding from EPA to improve this capability in URGWOM sooner than originally planned, possibly as soon as 2003.
- ❖ Dave mentioned that USGS nationwide water data is now available online at the agency web site.
- ❖ The next URGWOM Steering Committee meeting will be held on November 9 at 10:00 a.m. in the Corps of Engineers conference room.

October 12, 2000 - STATUS OF URGWOM TECH TEAM ACTIVITIES

People:

- Mark Yuska has spent much of the past month filling in at USBR Water Operations

Activities:

- Worked on adding and cleaning up WaterOps ruleset for: Jemez Exchange, El Vado Indian Storage, Abiquiu Pre-Evacuation, Cochiti/Jemez Balanced Ops, Middle Valley Losses
- Revised WaterOps model making middle valley diversions, losses, and return flows (and rules) consistent for each reach between Cochiti and Elephant Butte
- Setting up model for verification runs, including collecting data
- Testing for Snowmelt Runoff Forecast model has been completed successfully. A report summarizing the methods and results is in the works and should be ready for the first round of peer review by the third week of October.
- There were a few bugs found in the source code of the model as a result of testing the Accounting Model. These bugs were discussed with CADSWES who will include fixes for them in the next release of RiverWare, scheduled for October.
- Model runs designed to compare the SJ-C accounting for 1995 - 1996 are complete. Testing on the 2000 accounting with the model has begun. A draft of the report summarizing the methods and results of this testing is scheduled to be completed (minus the Nov and Dec 2000 accounting) is scheduled for internal review in November.
- The State of Colorado upon request quickly supplied 1997-99 diversion information for the San Juan-Chama diversions and it is now included in the dss database for URGWOM.
- David Gensler, MRGCD, supplied MRGCD diversion data for 1998-99. Danielle entered the data and Carole checked it.

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- Additional checking of the routing data for the 4 reaches between Cochiti Reservoir and San Acacia is progressing. A recalculation of the wave velocity has been done and will be run through the shift analysis.
- Corrections have been made to the Middle Valley write-up in response to routing and canal seep changes.
- Corrections have been made to the Lower Valley write-up in response to routing and canal seep changes.
- Finished San Acacia to Elephant Butte reach modeling using diversions, irrigation depletions, return flow, river surface evaporation, river leakage, and drain intercept of river leakage instead of gain-loss coefficients.
- Added 1975-84 and 1998 and 1999 stage data for Rio Grande gages from Cochiti to San Marcial to the DSS database. Updated METADATA file.
- Calculated river leakage from Cochiti to Elephant Butte reservoir for 1975 to 1984 and for 1998 and 1999. Added these leakage values to the DSS database. Updated METADATA file.
- Added 1998, 1999, and missing 1997 reservoir data to our reservoir database.

Meetings:

- Mark Yuska is at the WaRSMP meeting in Carson City, NV presenting and participating for URGWOM.
- Mark met with the URGWOPS/URGWOM integration team to present compiled feedback. Although there are varying specific needs included shorter timestep peak flows and monthly flow volumes, most agree daily mean streamflows and reservoir elevations are primarily desired of the planning model.
- Dennis and Mark met with Allen Cata and Patrick Rios of San Juan Pueblo to brief them on URGWOM.

Issues requiring Steering Committee Considerations:

- Budget for FY01 - We believe continuation is in the works. Please keep it going.