

California Water & Environmental Modeling Forum

Promoting Excellence and Consensus in Water and Environmental Modeling

Technical Training Workshop: Scenario Modeling, Management, and Planning with WEAP



In cooperation with Stockholm Environment Institute and the U.S. Bureau of Reclamation

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NEAP is an initiative of the <u>Stockholm</u> Environment Institute.		Welcome to WEAP!
About WEAP Home Why WEAP2	WEAP ("Water Evaluation And Plannie	ng' system) is a user-friendly software tool that takes an integrated approach to water resources planning.
Features What's New?		Can you help translate WEAP into other languages?
Sangle Screens Demonstration		new Version of WEAP Available (October 2011)
Editorial Englishing WEAP Descripted Unservice	Finisheater rangement of allegation of apply, advantance of a second of allered water resources between applications, muscled and environments are not assured that if independ on a poly, alwand, marke guidar and anticipation control and the second and anticipation of apply, and the organized and anticipation of apply, always the organized and apply and anticipation of apply and apply and anticipation of apply and anticipation of apply and apply and apply apply and apply apply and apply apply and apply	
Mar. Suble	Integrated Approach	Unique approach for conducting integrated water resources planning assessments
Yudecal Videcal	Stakeholder Process	Transparent structure facilitates engagement of diverse stakeholders in an open process
Resources	Water Balance	A detabase maintains water demand and supply information to drive mass balance model on a link-mode architecture
Discusions Members List Edit Profile	Simulation Rased	Calculates water demand, supply, runoff, infitration, crop requirements, flows, and storage, and pollution generation, treatment, discharge and instream water quality under varying hydrologic and policy scenarios.
Additional Support	Policy Scenarios	Evaluates a full range of water development and management options, and takes account of multiple and competing uses of water systems
University Courses	User-friendly Interface	Graphical drag-and-drop GIS-based interface with flexible model output as maps, charts and tables
Colaboration	Hodol Integration	Dynamic links to other models and software, such as QUALIX, MODPLOW, MODPATH, PEST, Excel and GAMS
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Friday, June 8, 2012 9a.m. to 5p.m. U.S. Bureau of Reclamation, 2800 Cottage Way Sacramento, California Free parking at the rear of the building Fee: \$50 for CWEMF members; \$100 for non-members; \$20 for students

To register, please e-mail your name, affiliation, phone and membership status to: Ben Bray, CWEMF Vice-Convener at bbray@ebmud.com

Once registered, please mail your check, payable to "CWEMF," to the following address: **CWEMF WEAP Technical Workshop** P.O. Box 22529 Sacramento, CA 95822

Workshop Purpose

Provide an introduction to the WEAP software and how it is being used in California. Participants* will work with hands-on tutorials that illustrate the capabilities of WEAP and learn how the software can be applied to water resources management problems in California.

Model Description

WEAP, a powerful modeling tool implemented to analyze water supply and demand in California. A few examples...

- WEAP supports the California Water Plan Update.
- Recent WEAP modeling studies investigated potential effects of climate change on runoff and stream temperature in the Sierra Nevada.
- Santa Clara Valley Water District utilizes WEAP to study municipal water supply and demand.
- EBMUD's model EBMUDIM was linked with WEAP for the Water Supply Management Program 2040 for supply and demand portfolio modeling.

WEAP operates on the basic principle of a water balance and can be applied to municipal and agricultural systems, a single watershed or complex river basins. WEAP can simulate a broad range of natural and engineered components of these systems, e.q. rainfall runoff, baseflow and groundwater recharge from precipitation; sectoral demand; water conservation; water rights and allocation priority, reservoir operations; hydropower generation; pollution tracking and water quality; vulnerability assessments; and ecosystem requirements. A financial analysis module also allows costbenefit comparisons for projects.

WEAP's growing use isn't limited to California, learn more at http://www.weap21.org.

Class size is limited and only paid participants are guaranteed a seat. If you have questions, please contact workshop facilitator Ben Bray at bbray@ebmud.com or (510) 287-0206.

*Participants will be expected to bring their own laptops for the model training.