

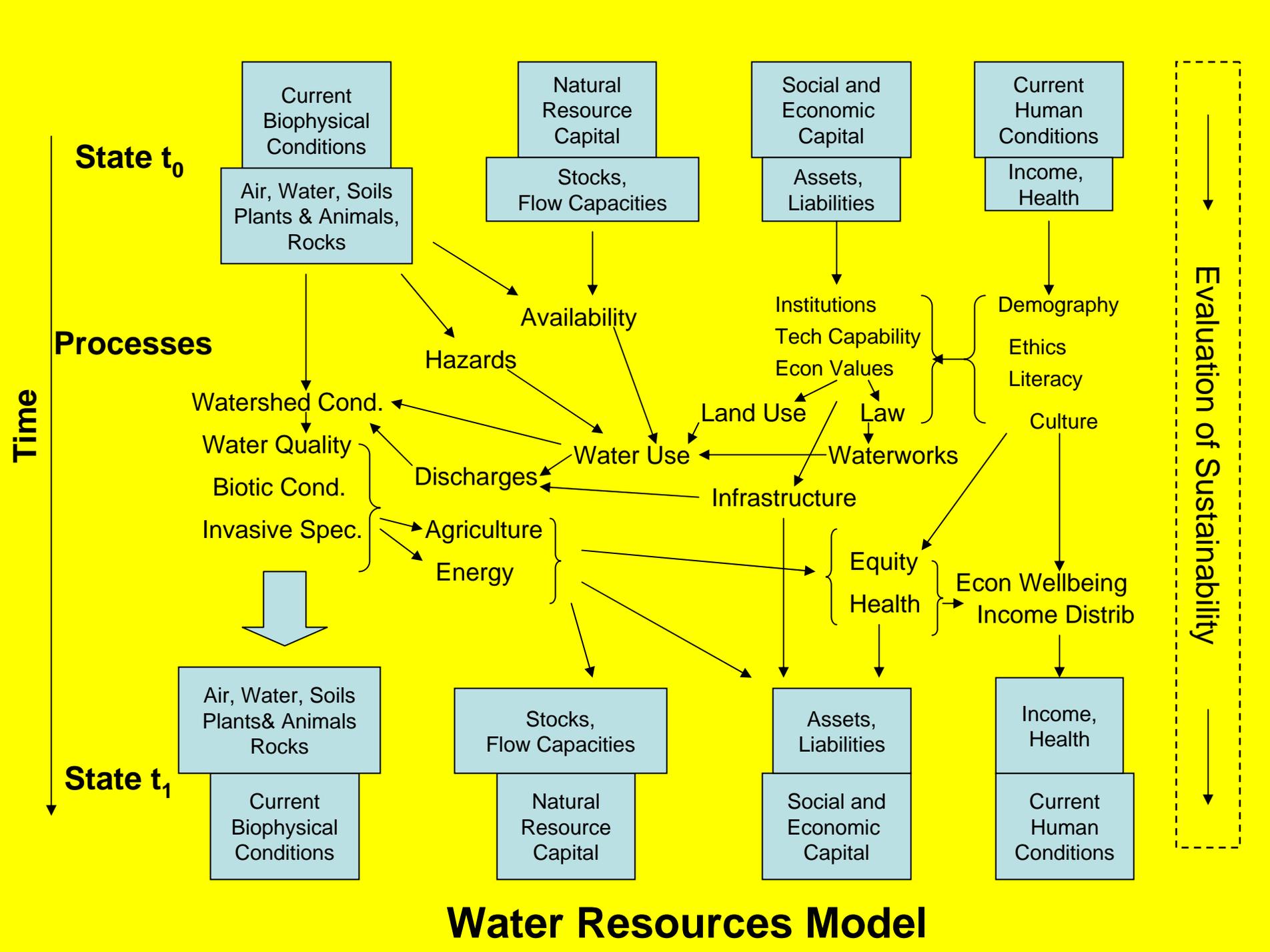
Sustainable Water Resources Roundtable

<http://acwi.gov/swrr/>

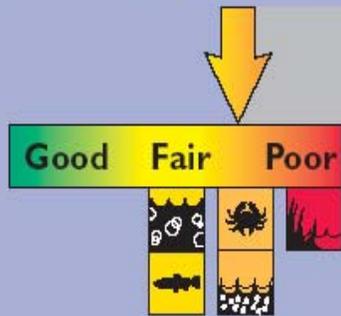
2006 Annual Report

SWRR Activities

- **Development of principles, criteria and indicators to support decision-making**
- **Identification of opportunities for collaboration on research needs**
- **Strategies to expand SWRR participation to states, non-profits, academia and industry**



Overall National Coastal Condition



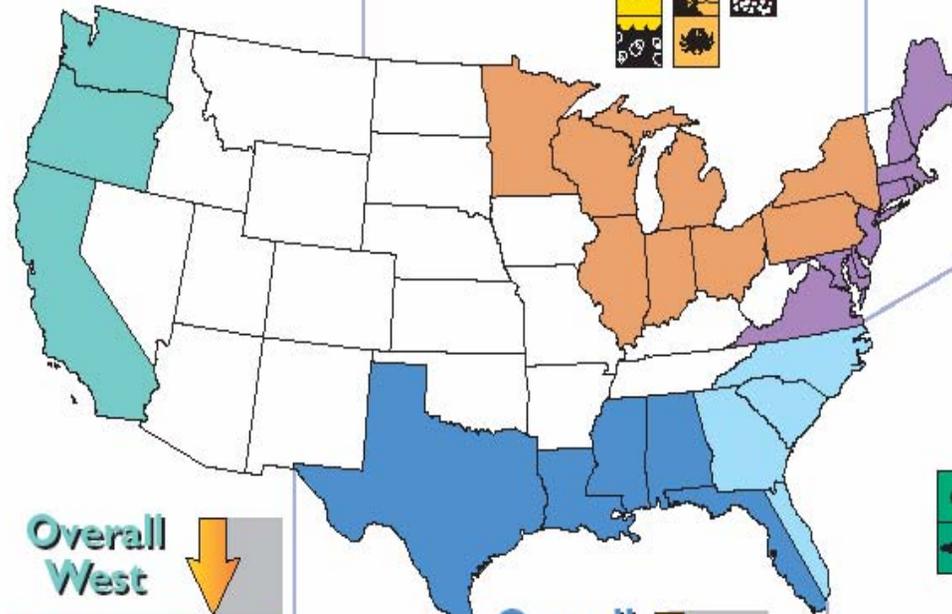
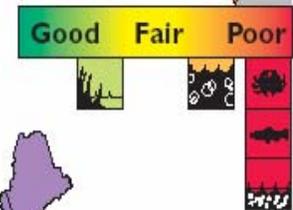
Ecological Health

-  Water Quality Index
-  Sediment Quality Index
-  Benthic Index
-  Coastal Habitat Index
-  Fish Tissue Index

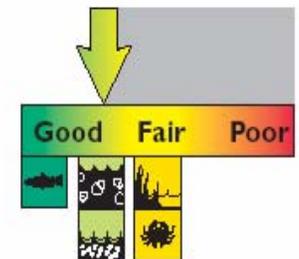
Overall Great Lakes



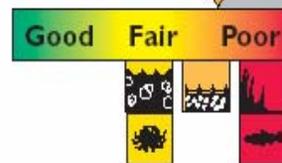
Overall Northeast



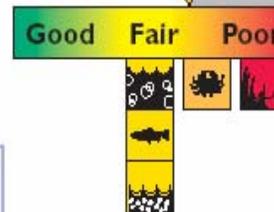
Overall Southeast



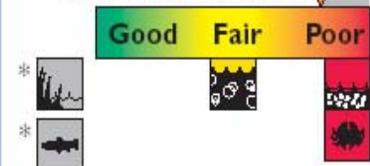
Overall West



Overall Gulf



Overall Puerto Rico



Surveys completed, but no indicator data available until the next report.

* Surveys completed, but no indicator data available until the next report.

SWRR's 2006 Outreach

- **WEFTEC'06 Track on Sustainable Water Resources Mgmt., Dallas, Texas**
- **AWRA July Water Resources Impact Issue**
- **SWRR Fact Sheet & Indicator List**
- **WEFTEC'05 Track Papers on Web Site**
- **Continued SWRR Meetings, Briefings for NAE & Renewable Nat. Res. Found.**
- **USFS Named SWRR Management Liaison**
- **Metro Wash. COG Joined as Active Member**

SWRR's 2007 Outreach

- **WEFTEC'07 Track on Sustainable Water Resources Mgmt., San Diego, CA**
- **World Water Congress, ASCE, Tampa, Florida**
- **WE&T II on Water Sustainability**
- **SWRR Meetings to Involve Agency Missions**

SWRR Future Work

- **Continue to revise and refine indicators for tracking the sustainability of water resources**
 - including indicators scalable to national, state and local levels
- **Assist agencies**
 - by describing the need for programs to collect the information necessary for generating indicators
- **Increase representation**
 - state & regional water management programs
 - industry

SWRR's Future Work

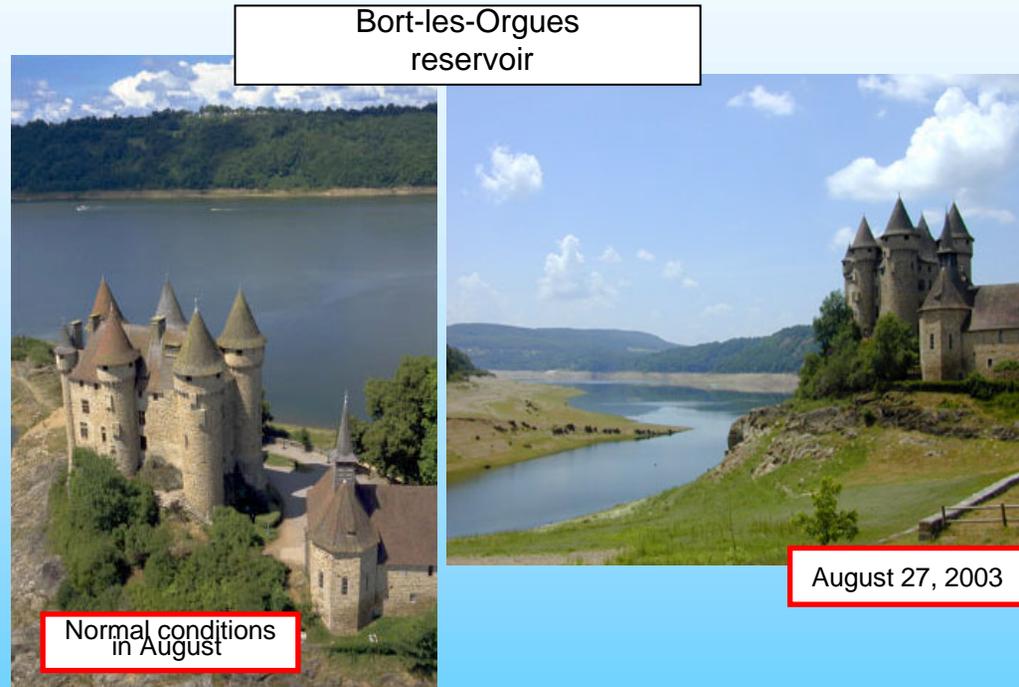
- **Expand relationships with the scientific community**
 - to draw on the best ideas in water disciplines
 - to encourage research into sustainability as it relates to water resources
- **Consult with other programs on water-related indicators, including**
 - National Research Council's Key National Indicator Initiative
 - Council on Environmental Quality
 - Heinz Center
 - Others

Upcoming Sustainable Water Resources Roundtable Workshop

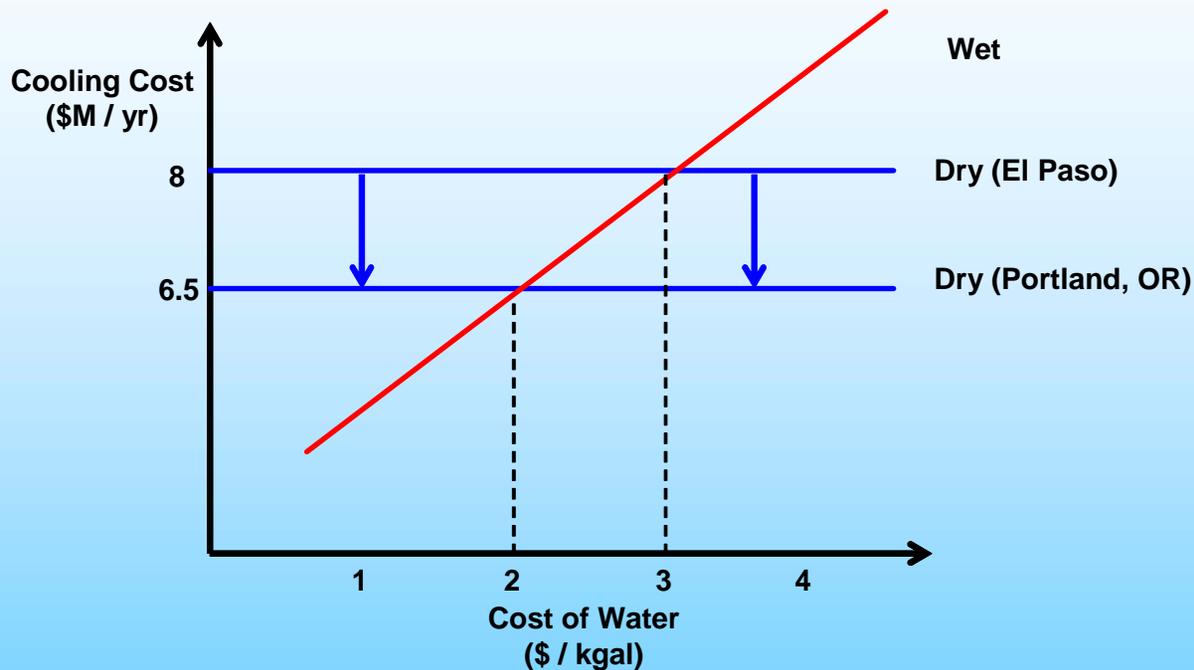
- **Metropolitan Washington Council of Governments**
- **777 North Capitol Street, NE, Washington, DC 20002**
- **January 25/26 2007**
- **Themes**
 - **Research needs**
 - **Energy/Water interdependencies**
 - **SWRR indicators**
 - **USEPA perspectives**
 - **Water sustainability in the Washington region**

2003 Heat Wave Impact on French Electric Power System

- Impact on Nuclear generation (~ 85 % of the mix ; 65 000 MW capacity)
 - Loss of 7 to 15% of Nuclear generation capacity for 5 weeks
- Impact on Hydro generation (~ 10% of the mix ; 20 000 MW capacity)
 - Loss of 20% of Hydro generation capacity (vs normal conditions)
- Consequences :
 - Summer peak-load increase of 4% (vs 2002)
 - Purchase of high amounts on wholesale power market
 - Negotiating large-scale load shedding and shut off exportation (Italy)
 - A take-off of spot-market prices : 1000 to 1500 \$ / MWh for most critical days



SWRR Influenced Research: Overcoming Hot Weather Penalty



- Potential benefits:
 - Reduce plant cooling cost by up to \$1.5M/year
 - Increase net profit margin by roughly 1 percentage point
 - Make dry cooling more cost-competitive

First Western Forum on Energy & Water Sustainability

- Bren School of Environmental Science & Management
- University of California, Santa Barbara
- March 22-23, 2007
- http://www2.bren.ucsb.edu/~keller/energy-water/first_forum.htm



SWRR Contacts



Co chairs

Rick Swanson

rswanson@fs.fed.us

Bob Goldstein

rogoldst@epri.com

Coordinator

Tim Smith

etsmithsiri@aol.com

Manager and Facilitator

David Berry

Davidberry@aol.com