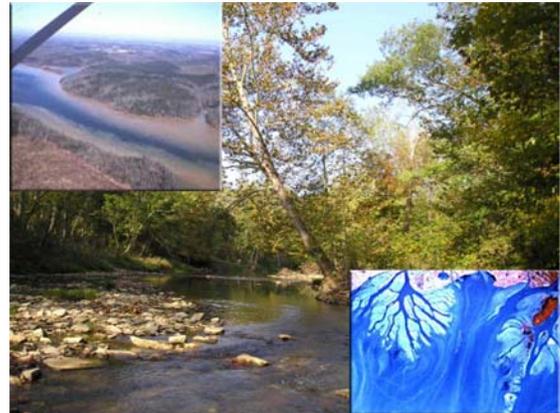




System-Wide Water
SWWRP
Resources Program

System-Wide Water Resources Program (SWWRP)

Description: The System-Wide Water Resources Program (SWWRP) is a U.S. Army Corps of Engineers research and development initiative designed to assemble and integrate the diverse components of water resources management. Products from this program are designed to help users surpass individual project-level analysis, and apply current and improved technologies for multi-disciplinary system-wide assessments. Geospatial technologies, measurement and monitoring methods, and selected numerical and index models are being connected via a framework with user-friendly Web access. Tools, methods, and technical documentation are housed in the Water Resources Depot for flexible selection of methods used in decision support. Tools and methods can be assembled for Watershed, River, Reservoir, Estuarine, Coastal or combined (system-wide) analyses to forecast physical, chemical, and biological response to water resource management activities. Managing water resource projects in a way that includes a system-wide or watershed-scale perspective is supportive of "The Corps Strategic Plan for Water Resources" and the Corps' "Environmental Operating Principles."



Applying System-Wide Approaches to Water Resources Management
US Army Corps of Engineers
Water Resources Depot
Home | Logon

System-Wide Water
SWWRP
Resources Program

Home
Watershed Notebook (DRAFT)
Events Calendar
Publications
Products and Tools
Water Quality Management
Flood Risk Management
Demonstration Sites
Lessons Learned
Related Sites
Search
Announcements

Home

Welcome to System-Wide Water Resources Depot

System-Wide Water Resources Depot is your premier online source for effective water, sediment, and ecosystem management information. The Depot provides access to multiple data sources, findings of previous regional studies, modeling results of regional studies, lessons learned from previous studies, best management practices for categories of water resource objectives, and contacts for expert advice on specific problems.

Additionally, it provides mapping and geoprocessing capabilities, analysis techniques, modeling tools, automated techniques for quantifying the risks & uncertainty associated with system-wide water resources components. As you explore the Depot, please feel free to share with us your insights on the usefulness of this site and recommendations for improvements.

[Click here for more information.](#)

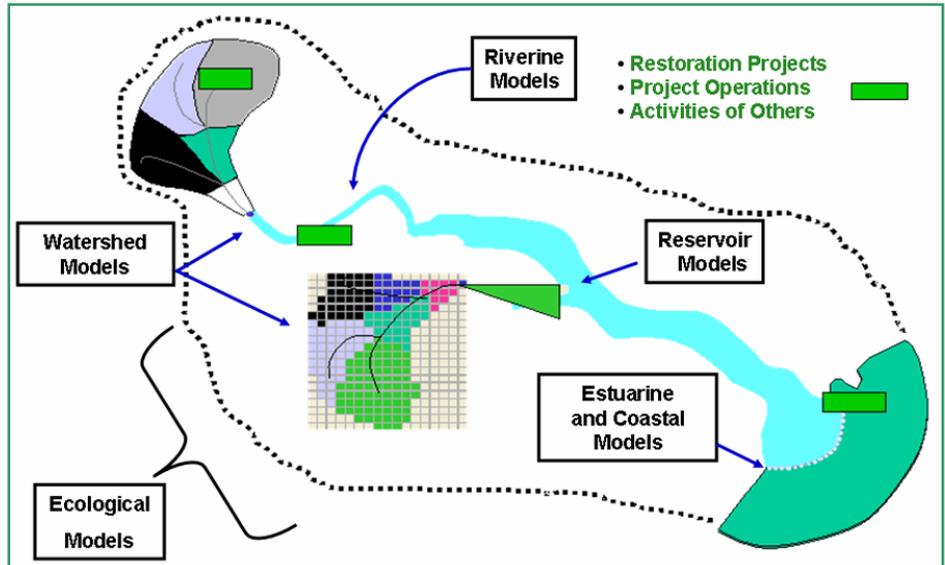
Featured Products:

- Aquatic Plant Growth Models Versions 3.0
- ADaptive Hydraulics Modeling
- Eulerian-Lagrangian-Agent Method (ELAM)
- Sediment Transport Model Demo, for information contact Joe Gallani.



System-Wide Water Resources Program (SWWRP)

Issue: Traditionally, water resources development and subsequent stewardship as well as research and development efforts, have been conducted by the Corps based on the needs of specific projects. As a result, useful models and methodologies were developed, but were generally designed for project level applications. While recognizing the local importance of individual projects, there is also a need for expanded knowledge in terms of broader geographic scope and longer time frames. As the Corps has become more committed to system-wide approaches to planning, engineering, operations, and management, an expanded “toolbox” is required to support defensible information collection and decision-making.



As the Corps has become more committed to system-wide approaches to planning, engineering, operations, and management, an expanded “toolbox” is required to support defensible information collection and decision-making.

Goal: SWWRP's ultimate goal is to provide to the Corps, its partners, and stakeholders the overall technological framework and analytical tools to restore and manage water resources and balance human development activities with natural system requirements.

Benefits: The major benefits to the Nation from SWWRP research and development include:

- Capabilities to assess linkages between watershed activities and operations and maintenance activities.
- Methods for forecasting in the context of system-wide natural resources management.
- Technological interoperability within a collaborative framework (e.g., enterprise architectures).
- Support to Planning, Regulatory, Operations/Maintenance, and Engineering/Construction.
- Improved decision-making approaches keyed to watershed-based tradeoff analyses.
- Increased stakeholder collaboration and multidisciplinary technical input during the decision-making process.
- Improved approaches to more effectively address issues of environmental sustainability.

Point of Contact: Steven Ashby, Ph.D., Environmental Laboratory, U.S. Army Engineer Research and Development Center, (601) 634-2387, Steven.L.Ashby@usace.army.mil.