

Transcending the Hydro-Illogical Cycle

Building a Texas Hydrologic
Information System

TX-HIS

Q: How can we solve water management problems at the state level?

A: We can leverage existing knowledge and partnerships with new models of information and new partners through a formalized network.

Water Information Needs

- In order to plan for future infrastructure, stakeholders from various application sectors (e.g., agriculture, energy, and the water resources community) need information about the likely climate trajectory for the next 5-30 years. (from NSF)
- In order to plan for the current drought, we need information about the climate trajectory for the next 3 months to 5 years.

Issues Raised this Morning

- What will future meteorological conditions look like?
- We need web-accessible data and tools
- We need to couple streamflow models to GCMs
- We need to break the hydro-illogical cycle and plan for the delivery of hydrologic information beyond the current drought

Proposed Path Forward: TX-HIS

ESR
CIESS
CENTER FOR INTEGRATED
EARTH SYSTEM SCIENCE

CRWR

TACC TEXAS ADVANCED COMPUTING CENTER
Powering Discoveries That Change The World

ESI **JACKSON**
SCHOOL OF GEOSCIENCES

Cockrell School of Engineering

Met Office

Science/Data

austintexas.gov
the official website of the City of Austin

TEXAS CHEMICAL COUNCIL

AECT

TEXAS OIL & GAS ASSOCIATION

Users

Texas Water Development Board

TEXAS PARKS & WILDLIFE

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Agencies

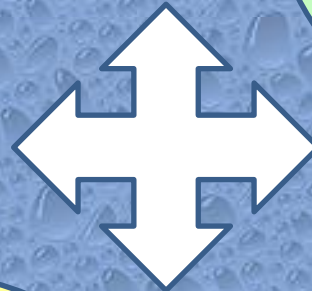
EDWARDS AQUIFER AUTHORITY

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LCRA
LAVIN COUNTY RAINWATER AUTHORITY

STATE OF TEXAS

Suppliers



Inviting a Dialogue

- We would like to hear from attendees on how we can move the dialogue forward
- Proposal to set up a steering committee
 - TCEQ volunteered to be first member
- Contact me: wgordon@esi.utexas.edu