

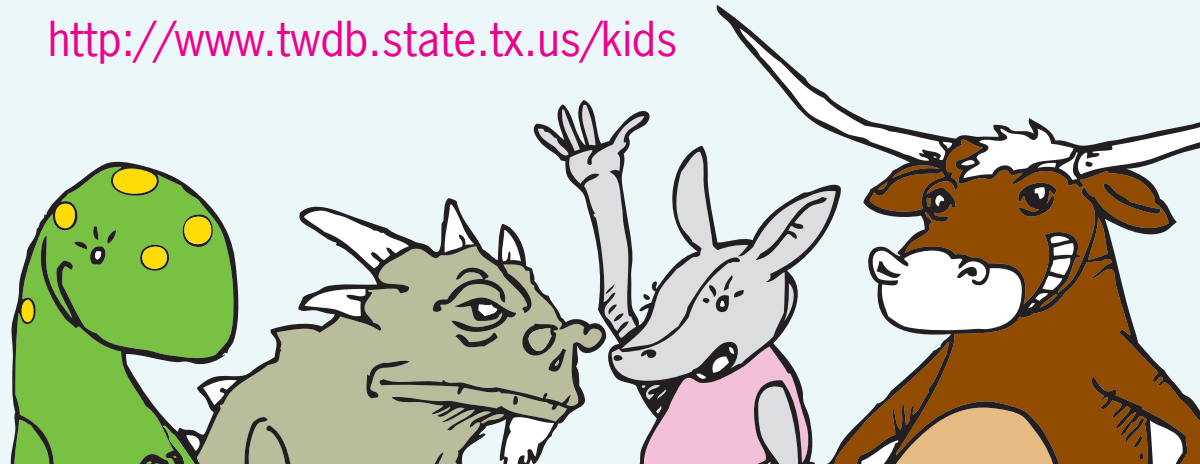
TWDB KIDS

TEXAS WATER DEVELOPMENT BOARD K-12 EDUCATIONAL RESOURCES

Children today will face a daunting challenge when they are adults: managing and conserving Texas' dwindling water supplies. So that they are equipped for this challenge, these future decision makers will need to be educated about the scientific background and complex issues associated with this critical resource.

The place to begin water education is in the school classroom. School programs can result in both short- and long-term water savings. Because students often share with their parents the information they learn at school, classroom education can affect current water use patterns. Youth educated about water resources are also more likely to make life-long behavioral changes.

<http://www.twdb.state.tx.us/kids>



What are the TWDB K-12 educational programs?

TWDB scientific research forms the cornerstone for these programs. They include units developed for specific age groups and range from coloring books for younger children to complete curricula for older students, with teachers' guides and Texas Essential Skills and Knowledge (TEKS) guidelines. Interactive Web games and lessons are also featured.

TWDB KIDS

The TWDB *Kids* Web site serves as the gateway to the agency's K-12 water conservation education resources. The Web site also features visualizations, interactive games, and other activities to help students learn about key concepts:

- water cycles
- watersheds
- water use
- surface water and groundwater
- water treatment
- water conservation

Water for Texas coloring book

This popular publication engages young children in exploring Texas water resources. It features Grandpa Lizard, Sally Mander, Amanda Armadillo, and Billy the Bull. Aimed at K-3 students, the coloring book teaches them about the importance of water resources and water conservation.

The coloring books may be ordered from TWDB or downloaded from the TWDB *Kids* Web site.



For more information on all TWDB educational materials or to order them, visit our Web site.

<http://www.twdb.state.tx.us/kids>

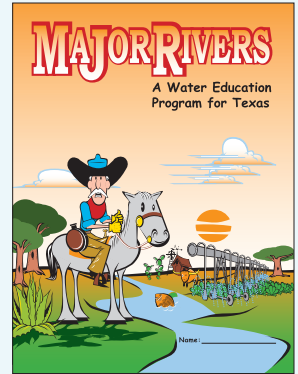


Printed on recycled-content paper

Major Rivers

Major Rivers, along with his horse, Aquifer, has been visiting Texas 4th and 5th grade classrooms for the past 20 years. This multidisciplinary curriculum includes a teacher's guide on CD-ROM, colorful and engaging student workbooks and home leaflets, and an introductory movie on DVD. The program teaches students where water comes from, how to protect water resources, and how to use water wisely.

Major Rivers has been updated to incorporate the latest information from the TEKS requirements for students. Student materials for *Major Rivers* are available in both English and Spanish language versions.

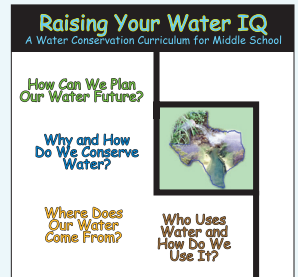


Raising Your Water IQ

Raising Your Water IQ is an inquiry-based, hands-on approach to teaching middle school students about Texas water resources. This free curriculum has a teacher's guide and includes lessons on:

- watersheds and pollution
- groundwater
- water cycles
- water in Texas
- water treatment
- wise water use

Activities in this program offer community-based service learning opportunities. Relevant TEKS standards are listed in the teacher's guide.



Water Exploration

This new Web-based water education program for Texas high school students is aligned with the learning standards for Earth and Space Science, Advanced Placement Environmental Science, Biology, Chemistry, Environmental Systems, and Aquatic Science. By using a project-based learning approach, *Water Exploration* encourages students to conduct research and build an understanding about water science and critical water-related issues.



All learning activities and resources are packaged into modules, or Legacy Cycles, which enhance student learning by making use of Internet and computer technology to promote inquiry learning. Service learning is also incorporated into this program by challenging students and community members to conduct school water audits and implement water conservation strategies such as rainwater harvesting.

Know Your Texas Water

Know Your Texas Water is a Web-based education resource for teachers and parents who would like to know more about Texas water. It features Web quests, animations, maps, and other tools based on TWDB's research, including the State Water Plan. Water resource workshops for teachers are posted on this Web page.

What other resources for education are provided by TWDB?

Conservation literature TWDB offers brochures and other educational materials for indoor and outdoor water conservation at home and for agricultural water conservation. These publications are free in limited quantities and for a nominal price per additional copy.

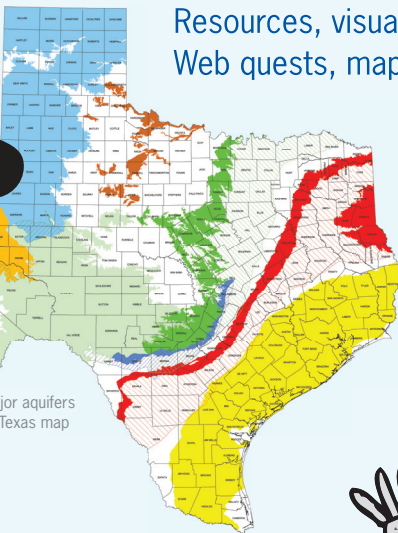
Water IQ Through Water IQ, TWDB provides information on water-saving practices, raises awareness about the importance of water efficiency, and helps Texans use less water. This statewide program is designed to complement and support existing local and regional water conservation efforts.

Agricultural conservation education TWDB provides educational materials at farm and ranch shows, agricultural trade shows and conferences, 4-H Water Camp, and other events.

Other educational outreach TWDB provides leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas. The agency offers outreach and education to the citizens of Texas through workshops and conferences throughout the year. For a schedule of TWDB outreach events, please visit our home page at <http://www.twdb.state.tx.us>.

TWDB KIDS

<http://www.twdb.state.tx.us/kids>



Major aquifers of Texas map

Resources, visualizations, interactive games, Web quests, maps, and publications

- water conservation
- water cycles
- surface water and groundwater
- watersheds
- water treatment
- water use
- water planning

