

## A Note About “Teaching Resources-Water”

Water is a “hot topic” these days. Pick up any newspaper and you are likely to find at least one article, editorial, or letter to the editor about water. In the summer months, common topics are about land subsidence or low lake levels, voluntary or mandatory residential watering restrictions, water conservation tips, reports on the economic feasibility of desalinization, rainwater harvesting techniques, pollution related beach closings, fish kills, or the funny taste of the drinking water supply.

Other times, the subject may be drought conditions, flood warnings, a mechanical failure at the wastewater treatment plant resulting in the discharge of untreated sewage, contaminated storm water runoff, or the pros and cons of water re-use. The point is that these water related issues are *relevant* and have *real-life* consequences.

### National Water Celebration Days

In addition to the four nationally designated events listed below, many local communities host and/or participate in organized Lake & River Clean Ups, Beach & Coastal Clean Ups, and/or Water Festivals. These events are designed to encourage public awareness and often include opportunities for water education.

<b>April:</b> Soil and Water Stewardship Week	<a href="http://www.nacdnet.org/pubaff/">http://www.nacdnet.org/pubaff/</a>
<b>April:</b> Earth Day Water for Life Campaign	<a href="http://www.earthday.net/">http://www.earthday.net/</a> <a href="http://www.earthday.net/goals/water_for_life.asp">http://www.earthday.net/goals/water_for_life.asp</a>
<b>April:</b> National Drinking Water Week	<a href="http://www.awwa.org/advocacy/dww/">http://www.awwa.org/advocacy/dww/</a>
<b>May:</b> National Wetlands Month	<a href="http://www.epa.gov/owow/wetlands/awm/">www.epa.gov/owow/wetlands/awm/</a>
<b>Sept:</b> National Estuaries Day	<a href="http://www.estuaries.gov/">http://www.estuaries.gov/</a>
<b>Oct:</b> National/ World Water Monitoring Day	<a href="http://www.worldwatermonitoringday.org/">www.worldwatermonitoringday.org/</a>

There is a truly a plethora of water education materials available via the Internet. A recent Google search using the term “Water Education” brought up 7,570,000 listings. The information is provided by a large number of entities, representing a wide diversity of interests and perspective. Obviously, the following *Teaching Resources* is not intended as a complete guide to reliable resources. It is included primarily as a tool to simplify and facilitate your efforts.

If you come across a broken link or a website that is no longer available; or if there is another website that you think we really should include, please let us know. Send an e-mail message to: [Bick.karen@epa.gov](mailto:Bick.karen@epa.gov) or call the Region 6 Water Quality Protection Division Customer Service Branch (6WQ-C) at (214) 665-7191. You can also reach us through the Region’s toll free 1-800-887-6063. 6WQ-C will do our best to keep an updated version of this Teaching Resources document available on: [www.epa.gov/region6/water/edu/TXwebsites.](http://www.epa.gov/region6/water/edu/TXwebsites.)

## TEACHING RESOURCES

### YOUR Local Government: (*Think Global; Act Local*)

The best place to start looking for information about your water system is “in your own backyard.” Many water and wastewater utilities, river authorities, water districts, municipalities, public works departments, etc. have wonderful educational programs and/or resources available to their customers. Some of them don't have the staffing or support to widely publicize the availability of these resources- but they are often more than happy to respond to requests for materials and/or technical support. Check out their website or give them a call- you may be pleasantly surprised. *The following are provided solely as representative examples of these websites.*

**Arlington** *Dive Into Conservation Education*

[http://www.ci.arlington.tx.us/waterdice/waterquality\\_treatmentcycle\\_detailed.html](http://www.ci.arlington.tx.us/waterdice/waterquality_treatmentcycle_detailed.html)

**Corpus Christi**

<http://cctexas.com>

Kids Activity Page

<http://cctexas.com/?fuseaction=main.view&page=1441>

Water Conservation

<http://cctexas.com/?fuseaction=main.view&page=1038>

**San Antonio** Water System's *H2O University* <http://saws.org/education>

Check out the **VIRTUAL CLASSROOM** section for Interactive Edu-tainment.

**Local Media** (newspaper, radio and television broadcasts). It's a great source of “real time, real world, place based “ connections to the material.

### Non-Governmental Organizations (NGOs) – Texas

**Texas Water Matters** <http://www.texaswatermatters.org/>

Collaborative effort of three prominent environmental organizations: **National Wildlife Federation, Environmental Defense, and Lone Star- Sierra Club**. Useful as a direct portal to the following downloadable publications.

FROM **Lone Star Chapter of the Sierra Club**:

[Facts About Texas Water](#): A publication designed to give all Texans basic information about water that will help them understand this important resource and how to use and protect it. [www.texas.sierraclub.org/press/facts.asp](http://www.texas.sierraclub.org/press/facts.asp)

[Facts About Your Water Supply](#): An overview of various water management and protection entities at the state, regional, and local level. [www.texas.sierraclub.org/press/facts2.asp](http://www.texas.sierraclub.org/press/facts2.asp)

FROM **National Wildlife Federation**: (Gulf States Natural Resource Center)

[Texas Watersheds: Living Waters Overview](#): An overview of the threats facing fish and wildlife in Texas

## **Texas Watch** <http://www.texaswatch.geo.swt.edu/>

Volunteer Water Monitoring Program. A cooperative partnership between Southwest Texas State University, Texas Commission on Environmental Quality (TCEQ) and the Environmental Protection Agency (EPA). They provide training workshops and other support, as requested.

<http://www.texaswatch.geo.swt.edu/educationx.htm#lpa>

Resources for classroom, After-school programs, and Community Service Projects.

## **Texas Water Foundation (TWF)**

Created by Texas Legislature in 1998. The website is designed to teach about the comprehensive efforts underway to make sure Texas will always have a clean, affordable supply of water. If you want to keep up to date on current activity, sign up for the weekly e-updates. <http://www.texaswater.org>

<http://www.texaswater.org/water/history/default.htm>

Concise narrative; historical perspective of water in Texas through time

## **Keep Texas Beautiful (KTB)**

In 2004, there are more than 330 KTB community affiliates. Working independently and collectively, these affiliates make up an active and effective statewide network of government, business, civic groups and volunteer partnerships to “keep Texas beautiful”. [www.ktb.org](http://www.ktb.org)

### **The Lake and River Cleanup Program**

[www.ktb.org/programs/LR/index.htm](http://www.ktb.org/programs/LR/index.htm)

Partnership between KTB and the Texas Commission on Environmental Quality (TCEQ) and helps communities to improve and maintain the quality of surface water through litter cleanups and education.

## **Texas A&M University System; Texas Water Resource Institute (TWRI)**

*Texas Water: Water Resources Education.* <http://texaswater.tamu.edu/index.html>

*Water's the Matter* Partnership for Environmental Education and Rural Health (PEER) Middle School Environmental Health Science Curriculum. This module focuses on five different measurable properties of water. TEKs correlated: Grades 6-7-8  
[http://peer.tamu.edu/curriculum\\_modules/Water\\_Quality/index.html](http://peer.tamu.edu/curriculum_modules/Water_Quality/index.html)

## **Texas State Aquarium (TSA)**

Not-for-profit, educational institution dedicated to education about, and conservation and rehabilitation of, the animals and/or habitats of the Gulf of Mexico. [www.texasstateaquarium.org](http://www.texasstateaquarium.org)

### **Teacher Resources/Kids Page**

Bays, Estuaries, Marine focused information and activities

[www.aquariumteacher.com](http://www.aquariumteacher.com)

## Texas Bureau of Economic Geology (BEG)

Serves as the Geological Survey of Texas, a research unit of The University of Texas at Austin, and the Regional Lead Organization for the Petroleum Technology Transfer Council.

### Earth Science Week

Resources for teachers and students of geology and related earth sciences.

<http://www.beg.utexas.edu/mainweb/edu01.htm>

## Water Professionals' Associations

- ***Texas Section- American Water Works Association (TAWWA)***

The American Water Works Association (AWWA) is an international nonprofit scientific and educational society dedicated to the improvement of drinking Water quality and supply. TAWWA is the state section.

- ***Water Environment Association of Texas (WEAT)***

The Water Environment Federation (WEF) is an international nonprofit technical and educational organization committed to the preservation and enhancement of the global water environment. WEAT is the state member association.

These two prominent, member supported, state based organizations have been recognized both individually and jointly for *Outstanding Leadership and Commitment to Public Outreach and Education*. Each association employees a single full time staff position to support the voluntary efforts of a strong and dedicated statewide network on water professionals. If you need help accessing the educational resources of your local water utility or need help tracking down some specific information, you are invited to contact staff. They will do their best to provide information and/or hook you up with local water professional.

### **CONTACT INFORMATION:**

**TAWWA:** PHONE: 512-238-9292 EMAIL: [mikehowe@tawwa.org](mailto:mikehowe@tawwa.org)

**WEAT:** PHONE: 512-693-0060 EMAIL: [Cheryl@weat.org](mailto:Cheryl@weat.org)

# Governmental Organizations - Texas

## **Texas Commission on Environmental Quality (TCEQ)**

<http://www.tceq.state.tx.us/>

As the primary environmental agency for the state, TCEQ's mission is to protect our state's human and natural resources consistent with sustainable economic development. Its goal is clean air, clean water, and the safe management of waste.

### **Air, Water, Land: Find Out What You Can**

One of the most popular kids resources is a 25-page coloring book:

[http://www.tceq.state.tx.us/comm\\_exec/forms\\_pubs/pubs/gi/gi-270\\_169906.pdf](http://www.tceq.state.tx.us/comm_exec/forms_pubs/pubs/gi/gi-270_169906.pdf)

### **Teaching Environmental Science (TES)**

A *no-to-low cost*, comprehensive two-week summer course for K-8 educators: Classes are held at colleges and Universities around the state. Participant can earn 3 graduate credits and/or 45 hours CEUs. Get all the details

## **Texas Water Development Board (TWDB) <http://www.twdb.state.tx.us/>**

Provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas. Information on a wide variety of topics: water use, conservation, planning districts, rainwater harvesting, desalination, and more.

Great source for maps: Major Aquifers, Reservoirs, Rivers, River Basins, etc.

<http://www.twdb.state.tx.us/mapping/index.asp>

Publications about water conservation

<http://www.twdb.state.tx.us/assistance/conservation/pubs.asp>

### **Major Rivers Program** (State-wide edition)

Texas based water education resource, TEKS correlated (4<sup>th</sup> and 5<sup>th</sup> grade)

<http://www.twdb.state.tx.us/assistance/conservation/conservationpublications/majorrivers.asp>

**\*\* NOTE:** A comprehensive water education program for middle school is under development.

## **Texas Parks and Wildlife Department (TPWD)**

The mission is to manage and conserve the natural and cultural resources of Texas.... Including water conservation -- through management, research and education.

### **Texas: The State of Water**

A portal to current information. <http://www.texasthestateofwater.org/>

Map, description and information about the 7 water-planning districts

[http://www.texasthestateofwater.org/water\\_environment/planning\\_regions.phtml](http://www.texasthestateofwater.org/water_environment/planning_regions.phtml)

List of cities, grouped by eco-region, w/ Average Annual Rainfall

<http://www.tpwd.state.tx.us/expltx/eft/activities/rainchart.htm>

### **Classroom Resources**

"Loaner trunks" on wetlands and coastal environments, special web casts, hands-on training classes, and more at <http://www.tpwd.state.tx.us/edu>.

## **Texas General Land Office (TGLO)**

The oldest state agency in Texas is responsible for managing and protecting the natural resources on 20.4 million acres of state property. <http://www.glo.state.tx.us>

**Adopt-A-Wetland:** Hands-on teacher training course;  
<http://www.glo.state.tx.us/wetnet/links.html>

**Adopt-A-Beach:** Clean up, *Treasures of the Texas Coast*: Children's Art Contest (K-6)  
<http://www.glo.state.tx.us/adopt-a-beach>

## **Texas Groundwater Protection Committee (TGPC)**

Consortium of nine state agencies and the Texas Association of Groundwater Districts; the committee works to effectively manage Texas groundwater and protect this state's vital resource. Basic information on **groundwater**, **pesticides**, **septic tanks**, **water wells**, **contamination**, and **oil, gas & mining**. <http://www.tgpc.state.tx.us>

## **Texas State Energy Conservation Office (SECO)**

Administers and delivers a variety of energy efficiency and renewable energy programs which impact energy cost and consumption. <http://www.gsc.state.tx.us/energy/energy.html>

### **Sources of Energy**

Examines all types of power generation including hydroelectric and geothermal.  
[http://www.propane.tx.gov/education/lessonpdf/1\\_3a.pdf](http://www.propane.tx.gov/education/lessonpdf/1_3a.pdf)

## **Texas State Soil & Water Conservation Board (TSSWCB)**

Lead agency for the planning, management and abatement of agricultural and silvicultural non-point source pollution. <http://www.tsswcb.state.tx.us>

### **Annual Contests and Educational Resources**

Conservation Education Models, Video lending library; teacher: **Poster contest** for ages 12 and under; Essay **contest** for ages 18 and under.  
<http://www.tsswcb.state.tx.us/infoed.htm>

## **Texas Department of Transportation (TX DOT)**

Providing comfortable, safe, durable, cost-effective, environmentally sensitive and aesthetically appealing transportation systems that work together. <http://www.dot.state.tx.us>

### **Tex and Dot: Water Quality Coloring and Activity Book**

Download a copy of this popular 14-page publication.  
<http://www.dot.state.tx.us/kidsonly/puzzlepg/environment/envtrnbk.htm>

# Governmental Organizations- National

## **U.S. Environmental Protection Agency (EPA)**

*The mission of the Environmental Protection Agency is to protect human health and the environment.* [www.epa.gov](http://www.epa.gov)

### **OFFICE OF WATER (OW): GENERAL OVERVIEW**

[www.epa.gov/water/programs/owintro.html](http://www.epa.gov/water/programs/owintro.html)

### **LIST OF SPECIFIC PROGRAMS AND PARTNERSHIPS**

<http://www.epa.gov/water/programs/index.html>

A selection of websites and on-line resources of particular interest to students and teachers:

### **Office of Ground Water and Drinking Water (OGWDW)**

<http://www.epa.gov/safewater/about.html>

<http://www.epa.gov/safewater/wot/index.html>

Water on Tap: What You Need To Know

<http://www.epa.gov/safewater/kids/>

Games, puzzles and simple experiments.

[http://www.epa.gov/OGWDW/publicoutreach/posters\\_vids.html](http://www.epa.gov/OGWDW/publicoutreach/posters_vids.html)

Selection of posters and other outreach materials

<http://www.epa.gov/safewater/dwinfo/tx.htm>

Water quality reports for Texas (update/revisions in progress)

### **Office of Wetlands, Oceans, and Watersheds (OWOW) <http://www.epa.gov/owow/>**

<http://www.epa.gov/owow/watershed/whatis.html>

What is a Watershed?

<http://cfpub.epa.gov/surf/locate/index.cfm>

Put in a zip code and find information about the local watershed.

<http://www.epa.gov/owow/monitoring/nationswaters/>

*What's Up With Our Nation's Waters?* Browse or download this 27-page student booklet, which explores the significance of EPA's National Water Quality Report.

<http://www.epa.gov/owow/watershed/outreach/outreachnonjs.html>

Tools to promote public awareness and encourage involvement in watershed protection.

<http://www.epa.gov/owow/nps/kids/>

Polluted runoff- games and activities about non point source pollution.

<http://www.epa.gov/owow/wetlands/>

What are Wetlands? Why Protect Wetlands? What you can do.

<http://www.epa.gov/owow/estuaries/kids/>

Exploring Estuaries. What and whys of estuary protection.

<http://www.epa.gov/owow/oceans/kids.html>

Oceans and Coasts for Children, Students and Teachers

<http://www.epa.gov/weatherchannel/>

1/2-hour television program about storm water runoff and watersheds co-produced by EPA and The Weather Channel. VHS copies and support materials are available.

### **Office of Wastewater Management (OWM)**

<http://www.epa.gov/owm/water-efficiency/index.htm>

Information on water conservation and water efficient products & practices.

<http://www.epa.gov/region9/water/recycling/index.html>

General overview of the environmental benefits of water recycling & reuse.

<http://www.epa.gov/owm/mtb/biosolids/index.htm>

General overview of Biosolids (sewage sludge) and beneficial use.

### **Office of Science and Technology (OST)**

<http://www.epa.gov/waterscience/primer.pdf>

Four page brochure about OST responsibilities and activities. Health advisories- fish consumption, beach closings \*\*\*\*????\*&\*\*\*\*???

While not part of **OW**, the Office of Research and Development (**ORD**) is also a good resource for information on ways to *prevent* and *reduce* pollution... and to *restore* ecosystems.

### **ORD:**

<http://www.epa.gov/ORD/NRMRL/news/news102004.htm>

**Water--the Resource With Many Lives**

<http://www.epa.gov/ORD/NRMRL/news/news062004.htm>

**Molecular Tracking of  
Fecal Pollution in Surface Waters**

<http://www.epa.gov/ORD/NRMRL/news/news042004.htm>

**Research Team to Protect Ecosystem Diversity**

<http://www.epa.gov/ORD/NRMRL/news/news032004.htm>

**RNA-Based Research for  
Safer Drinking Water**

<http://www.epa.gov/ORD/NRMRL/news/news022004.htm>

**Predicting Elevated Arsenic in Drinking Water Sources**

**Another route to EPA's K-12 educational resources is via "Audience" group:**

**Environmental Kids Club** (Pre-K through 4<sup>th</sup> grade)

<http://www.epa.gov/kids/>

**Environmental Student Center** (Grades 5-8)

<http://www.epa.gov/students/>

**High School Environmental Center** (Grades 9-12)

<http://www.epa.gov/highschool/>

**Teachers Environmental Education Center**

<http://www.epa.gov/teachers/>



## U.S. Geological Survey (USGS)

*Serves the Nation as an independent fact-finding agency that collects, monitors, analyzes, and provides scientific understanding about natural resource conditions, issues, and problems.*

[www.usgs.gov](http://www.usgs.gov)

### Water Science for Schools

Excellent site for anyone: jam packed with information. Includes pictures, data, maps, and an interactive center where you can give opinions and test your water knowledge.

<http://ga.usgs.gov/edu> or <http://water.usgs.gov/droplet> (Available in Spanish @ <http://water.usgs.gov/gotita>)

### Water Cycle

Printer friendly image. Descriptive narrative of 15 separate components.

<http://ga.water.usgs.gov/edu/watercycle.html>

### A Primer on Water Quality

Two page fact sheet, general information for high school and general public

<http://water.usgs.gov/pubs/fs/fs-027-01/pdf/FS-027-01.pdf>

### Learning Web

A “treasure chest” of resources: [www.usgs.gov/education](http://www.usgs.gov/education)

Click on “Water” or: [http://interactive2.usgs.gov/learningweb/explorer/topic\\_water.htm](http://interactive2.usgs.gov/learningweb/explorer/topic_water.htm)

<http://in.water.usgs.gov/willie/Willie.pdf>

<http://water.usgs.gov/outreach/OutReach.html>

<http://capp.water.usgs.gov/aquiferBasics/index.html>

[http://capp.water.usgs.gov/GIP/gw\\_gip/](http://capp.water.usgs.gov/GIP/gw_gip/)

Coloring book

Water Education Poster Series

Aquifer Basics

Groundwater

## National Drought Mitigation Center (NDMC)

Based in the School of Natural Resources at the University of Nebraska–Lincoln. On-going work includes maintaining an information clearinghouse; drought monitoring drought planning and mitigation; drought policy; advising policy makers; collaborative research; K-12 outreach. <http://drought.unl.edu>

### Drought for Kids

Everything you always wanted to know about drought really!

<http://drought.unl.edu/kids>

## National Aeronautics and Space Administration (NASA)

<http://www.nasa.gov/home/index.html>

<http://aqua.nasa.gov/> Satellite mission named Aqua, for the large amount of information that the mission will be collecting about the Earth's water cycle, including evaporation from the oceans, water vapor in the atmosphere, clouds, precipitation, soil moisture, sea ice, land ice, and snow cover on the land and ice.

## National Oceanic & Atmospheric Administration (NOAA)

<http://www.noaa.gov>

[www.education.noaa.gov](http://www.education.noaa.gov) Specially designed to help students, teachers, librarians and the general public access the many educational activities, publications, and booklets that have been produced by NOAA: droughts, floods, oceans, fisheries, coastal areas.

### Peace Corps WorldWide Schools

Global education program of the Peace Corps, created especially to engage American students in inquiry about the world, themselves and others in order to promote peace through understanding and friendship

#### ***Water in Africa* UNIT**

Resources include photos, stories, classroom lessons, and community contact info.

<http://www.peacecorps.gov/wws/water/africa/lessons/index.html>

#### ***Access to Safe Drinking Water* UNIT**

Grades 8-12: Research module uses questioning, problem solving, critical thinking, and technology skills. <http://www.peacecorps.gov/wws/research/water/index.html>

## U.S. Dept of Interior; Bureau of Reclamation & Bureau of Land Management

**WaterLearn** Students discover how water impacts issues relating to nature, urban and agriculture.

[www.usbr.gov/mp/watershare/resources/waterlearn.cfm](http://www.usbr.gov/mp/watershare/resources/waterlearn.cfm)

**Learning Landscapes** Educational resources for Teachers, Students, Families

[www.blm.gov/education](http://www.blm.gov/education)

## OTHER NATIONAL ORGANIZATIONS

### The Groundwater Foundation

Educating and motivating people to care for and about groundwater. The Groundwater Foundation was founded in 1985 and has become a respected leader in water education.

<http://www.groundwater.org/>

#### **Kid's Corner**

A great collection of facts, activities, games, puzzles & worksheets; includes "Edible Earth Parfaits" recipe <http://www.groundwater.org/kc/kc.html>

#### **Get Informed & Stay Informed**

Concise background information on numerous water related topics. Sign up for the free popular e-zine, The Recharge Report (includes special issues of The Recharge Report for Kids) <http://www.groundwater.org/qi/qi.html>

### America's Clean Water Foundation (ACWF)

Not-for-profit organization created in 1989 to coordinate the Year of Clean Water. Since that time, ACWF has grown to serve as a national and international forum for citizen outreach, that

promotes youth education, public involvement, and technical program exchange for clean water.  
<http://www.acwf.org/>

### **ACWF for Kids**

Read books, take quizzes online

<http://www.acwf.org/education/library.html>

### **River of Words (ROW)**

California-based, international non-profit organization that sponsors an annual international poetry and art contest for youth (ages 5-19) on the theme of watersheds. February 15<sup>th</sup> entry date. Entry forms & detailed info:

<http://www.riverofwords.org/contest/howtoenter.html>

### **Water: Use It Wisely**

Although it's intended primarily to market and promote a national comprehensive water conservation education and media campaign, this fun and consumer-friendly website serves as a valuable educational resource. <http://www.wateruseitwisely.com>

### **Project WET (Water Education for Teachers)**

A nonprofit water education program and publisher for educators and young people ages 5-18. They develop, publish and offer teacher-training workshops on a wide variety of resources. More information available at <http://www.projectwet.org>

#### **Kids In Discovery Series (KIDs) (\$)**

Colorful, informative 16 page "Read to Discover" activity booklets for students ages 8-12. A wide range of water topics—and growing. Several titles are also available in Spanish. Each title is sold in classroom sets of 30 copies.

<http://www.projectwet.org/watercourse>

#### **The Incredible Journey**

Copy of activity for upper elementary and middle school students. Provides a more detailed exploration of the water cycle.

<http://www.montana.edu/wwwwet/journey.html>

### **WET in the City (\$)**

An urban environmental education program of the Council for Environmental Education (CEE) focusing on water resources. Engages K-12 youth in hands-on activities that creatively explore the science of water, its cultural context, and complex issues surrounding its management and stewardship. Educational website available to all. <http://www.wetcity.org/resources.htm>

### **Water: The Last Drop**

Discovery Channel program aimed at Grades 6-8 (adaptations for 9-12).

Video available to purchase. However, the supplementary on-line resources include clips from video. These free resources can be used independently.

<http://school.discovery.com/lessonplans/programs/water/index.html>

### **Water Environment Federation (WEF)**

An international professional organization dedicated to preserving and enhancing the global water environment.

Resources for teachers and students are found in the "Classroom Connections" section, Which includes an interactive tour through the wastewater treatment process and a multi-media trip through history. [www.wef.org/publicinfo/interactive.jhtml](http://www.wef.org/publicinfo/interactive.jhtml)

### **Be In The Know-Go With the Flow**

A step-by-step exploration of the wastewater treatment process. (English and Spanish) <http://www.wef.org/wefstudents/GoWithFlow/index.htm>

### **AquaVenturer Online <http://Aquaventurer.org>**

A modified version of the popular CD. (CD can be purchased-see below). Aqua Venturer tells the story of water, its treatment and use throughout history. It highlights the vital role of clean water in the development of civilizations. [You can download a **Teacher Guide** (Grades 7-10)]

### **Career Paths <http://www.wef.org/CareerPaths/DescriptionIndex.jhtml>**

A wide variety of water environment careers offer opportunities to make a difference while enjoying competitive salaries and stability Browse descriptions of 50 careers in the water environment field. . (Companion Curriculum can be purchased)

### **Stockholm Junior Water Prize National Competition**

Prestigious international youth award for a high school water science research project. <http://www.wef.org/PublicInfo/Stockholm/index.jhtml>

## **(\$) Resources available for purchase from WEF Bookstore**

Order online at [https://www.e-wef.org/timssnet/search/tnt\\_genericsearch.cfm](https://www.e-wef.org/timssnet/search/tnt_genericsearch.cfm) or call 1-800-666-0206.

### **Make Waves: Career Paths in the Water Environment** Order No: ZS1301 **(\$ 49)**

12 hands-on activities developed to encourage secondary students to consider careers in the water environment. Good supplemental curriculum product for guidance counselors, secondary educators, and water environment professionals who give tours and presentations at schools.

### **Froglime Video** Order No: ZV1902 **(\$ 20)**

This fast-paced and humorous an eight-minute program covers nonpoint source pollution in a news format. Anchor amphibians Finneas Frog and Kris Croak describe how nonpoint source pollution impacts the environment and discuss what individuals can do reduce or prevent this pollution. Upper elementary grades.

### **Water Down The Drain (CD-Rom)** Order No: ZC1202 **(\$ 15)**

Introduce the causes of non-point source runoff pollution in urban settings as only a hip-hop frog can! Six modules introduce a watershed landscape perspective and focus on the impact of impervious surfaces and pollution problems and solutions common to residential lots. (English and Spanish).

### **Wastewater Treatment H2O TV** Order No: 0Z1180 (VHS) **(\$5)**; ZS1504 (Spanish VHS) **(\$15)**; 0Z1200 (Student Guide) **(\$1)**; 0Z1190 (Teachers Guide) **(\$5)**

"Music Video" style introduction, a combination of live action and Dino-**Sorrus**, WEF's animated water quality spokes-dinosaur, present a complete examination of the wastewater treatment process. Also available in Spanish

**Nature's Way, Too** Order No: OZ1165 (**\$ 20**)

The story of wastewater treatment plants' role in water quality protection and improvement. The " video features an explanation of the wastewater treatment process as told through the eyes of "real life" plant personnel. Viewers will come away with an understanding of how wastewater treatment contributes to a better environment

**Aqua Venturer CD-ROM** Order No: ZV1000 (**\$ 20**)

The interactive, multimedia Aqua Venturer CD-ROM game tells the story of water, its treatment and use throughout history, and its importance to life on Earth. At the click of a mouse, users of Aqua Venturer can discover what the water environment was like in ancient Rome or on the other side of the globe centuries later. The CD-ROM brings more than 10,000 years of history to life with interesting anecdotes, colorful photos, videos clips, and music. Aqua Venturer highlights the vital role of clean water in the development of civilizations. Geared towards secondary students, Aqua Venturer is entertaining and informative for everyone.

**Living On A Drop** Order No: ZV1903 (**\$ 30**)

Visually stunning and informative, Living on a Drop examines the looming water crisis on both a global and local level aims to raise public awareness, interest, and understanding of the key causal links behind the crisis and the hope linked to human ingenuity. Based on a concept by Professor Malin Falkenmark, senior scientist, Stockholm International Water Institute, and JM Sköglstrom, Director, Scandinavian Communication, the documentary was funded in part by the Swedish Water and Wastewater Association, a WEF member association

**Water Sourcebook (Spanish) Grades 3 - 5 (13 activities)** Order No: ZS1702 (**\$ 10**)

The popular Water Sourcebook now has a Spanish version! Designed for use by teachers and water quality professionals, the hands-on guidebook (13 activities) teaches youth the importance of water quality and quantity issues

If you are interested in any of the resource materials available through WEF and cannot afford to purchase them, please contact the Water Environment Association of Texas (WEAT), the state affiliate to see if complimentary or loaner copies may be available.  
Contact: Cheryl@weat.org

**American Water Works Association (AWWA).**

An international scientific and educational society dedicated to the improvement of drinking water quality and supply. Resources for students, teachers, and the general public are found in the **Consumer Water Center** portion of the website

**Drinking Water Information for Consumers**

It is filled with facts, resources, conservation tips, and products that will help answer your questions and provide you with the knowledge you need about your drinking water <http://www.awwa.org/advocacy/learn/>

**National Drinking Water Week** "The Wonder of Water."

Designated as the first week in May. It's a collaborative effort and AWWA serves as "home base". <http://www.awwa.org/advocacy/dww>

**(\$) Resources available for purchase from AWWA Bookstore**

**Online:** <http://www.awwa.org/bookstore> or

**Phone:** 1-800-926-7337    **Fax:** 1-303-347-0804

**Mail:** AWWA Bookstore; 6666 W. Quincy Ave.; Denver, CO 80235

**The Story of Drinking Water**

Grade school level (Grades 4-6) educational booklet all about water.

**Student Workbook**                      Catalog # 70001                      Price: \$ 0.55

**Teachers' Guide**                      Catalog # 70003                      Price: \$ 13.00

**A Consumer's Guide to Drinking Water**                      Catalog # 20458    Price: \$ 15.00

Here is a fun, consumer-friendly little book! Is full of information and loaded with hilarious illustrations. Edition: 2000, Softbound, 69 pp.

**Plain Talk About Drinking Water--Questions and Answers About the Water You Drink, Fourth Ed**                      Catalog # 20244                      Price: \$ 15.00

Filled with practical and easily understood information. This consumer-education book offers answers to 200 questions about water. Edition: 2001, Softbound, 264 pp.

**Science Court Water Cycle CD-ROM**                      Catalog # 65207                      Price: \$ 60.00

Science Court is a CD-ROM series that mixes courtroom drama, humor, and hands-on activities to teach middle school kids fundamental science concepts and practices

**Science Court Water Cycle Video**                      Catalog # 65206.                      Price: \$ 30.00

Learn about the water cycle and other scientific concepts, as well as sound methods of investigation, through a combination of courtroom drama, animation, and humor.

**Science Seekers. Safe Water CD-ROM**                      Catalog # 65208                      Price: \$ 80.00

This Science Seekers CD-ROM covers core science content while introducing students to some of the most exciting new technological tools that help today's scientists solve challenging scientific puzzles.

**The Water Works**                      Catalog # 65195                      Price: \$50.00

This fun-filled video invites kids to join in a tour of a municipal water plant. Edition: 2000, VHS

**Whaddya Know About H2O?**                      Catalog # 64180 (DVD) / 65180 (VHS)    Price: \$50.00

30 self contained, one minute segments. Educate young viewers about water conservation, characteristics, and role in society Edition: 2003,

If you are interested in any of the resource materials available through AWWA and cannot afford to purchase them, please contact the Texas Chapter, American Water Works Association (TAWWA) to check for availability of complimentary or loaner copies. Contact: MikeHowe@tawwa.org

## On-line “Edu-tainment”

Just a few examples of what’s out there....

[http://tawwa.org/story\\_of\\_water/html/story.htm](http://tawwa.org/story_of_water/html/story.htm) (Water Basics & Treatment; Grades 3+)

<http://www.epa.gov/safewater/kids/games.html> (Drinking water; Grades 3+)

<http://www.wateruseitwisely.com/game/> (Conservation; Grades 4+)

<http://www.lvwater.org/tour.asp> (Water Cycle & Groundwater Interactives; Grade 3+)

<http://www.savingwater.org/waterbusters/> (Conservation; Grades 4 +)

<http://www.wef.org/wefstudents/gowithflow/index.htm> (Wastewater Treatment; Grades 6+)

<http://www.aquaventurer.org> (Multimedia History of Wastewater Treatment; Grades 6+)

<http://interactive2.usgs.gov/learningweb/fun/trivia.htm> (Water science trivia, Grades 6+)

## **Reading List (City of Phoenix)**

<http://www.ci.phoenix.az.us/WATER/books.html>

<http://waterontheweb.org/>

Water on the Web (WOW) helps college and high school students understand and solve real-world environmental problems using advanced technology. WOW is a complete package containing two sets of curricula, data from many lakes and rivers nationwide, extensive online primers, data interpretation and Geographic Information System Tools, and additional supporting materials.

**Basic Science consists of individual lessons for infusion into a wide range of existing science courses. Water Resource Science is a two-semester water resource management curriculum for second year technical students and undergraduates in water or environmental management disciplines.**

Other Good Stuff: Includes water issues within a broader ecological context

**Confronting Climate Change in the Gulf Coast Region: Prospects for Sustaining Our Ecological Heritage** Grade 9-12 curriculum (adaptable) - state specific content/standards. <http://www.ucsusa.org/gulf/gcchallengegeteachers.html>

**Down The Drain** How Much Water Do You Use:

Internet based collaborative project from **Technology, Center**: Grades 4-8  
<http://www.k12science.org/curriculum/drainproj/information.html>

**H2O University**: A project of Southern Nevada Water Authority

<http://www.h2ouniversity.org/html/index.html>

MONTHLY UPDATE OCTOBER 2004: EPA Office of Water Resource Center

Item Title: Thirstin's Drinking Water Games & Activities: K\_12 [CD\_ROM]

EPA Number: 816C04008

Pub. Date: 08/2004

Pages: N/A

Issuing Office: OGWDW

Availability: OWRC

Item Title: Water on Tap: What You Need to Know [CD\_ROM]

EPA Number: 816C04006

Pub. Date: 08/2004

Pages: N/A

Issuing Office: OGWDW

**Availability: OWRC**

EPA Water Resource Center

**\*\*\*\* Sign Up to receive Monthly Updates**

Email: [center.water\\_resource@epa.gov](mailto:center.water_resource@epa.gov)

Web Site: <http://www.epa.gov/safewater/resource/>