

Bi-weekly Wetland and Stream Corridor Restoration Update
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Welcome to the Bi-weekly Wetland and Stream Corridor Restoration Update. This Web site

- Provides current information on wetland and river corridor restoration projects
- Recognizes outstanding restoration projects
- Offers a forum for information sharing

We welcome the submission of articles and announcements related to your restoration project. Just send your write-up to EPA's contractor at restorationupdate@tetrattech-ffx.com or mail it to Rebecca Schmidt, Bi-weekly Restoration Update Coordinator, Tetra Tech, Inc., 10306 Eaton Place, Suite 340, Fairfax, VA 22030. We will carefully consider your submission for inclusion in a future update. If your submission is selected, please note that it might be edited for length or style before being posted. Because this Web site is meant to be a public forum on restoration information, we cannot post any information that is copyrighted or information that advocates or lobbies for any political, business, or commercial purposes or has the appearance of doing so.

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Feature Article

Illinois Program Promotes Restoration Partnerships

The *Conservation 2000* (C2000) Initiative of the Illinois Department of Natural Resource's (DNR) Ecosystems Program is restoring habitat and creating partnerships. In 1995 the Illinois General Assembly passed legislation initiating C2000, a comprehensive, 6-year, \$100 million initiative designed to take a holistic, long-term approach to protecting and managing Illinois's natural resources. With overwhelmingly positive support for the program, in August 1999 Illinois Governor George Ryan signed House Bill 1746 into legislation, extending the C2000 program until the year 2009. The C2000 program funds nine programs across three state natural resource agencies, including the DNR's Ecosystems Program.

The C2000 Ecosystems Program encourages the interest and participation of local communities along watersheds—landowners, businesses, scientists, environmental organizations, recreational enthusiasts, and policy makers—to form partnerships to enhance and protect watersheds through ecosystem-based management. Each partnership group is eligible to apply for grants and technical assistance from the DNR. The program has grown to 39 such partnerships, covering 82 percent of the state's landcover.

“Conservation 2000 has been successful in large part because local citizens and private property owners are dedicated to working together to improve their communities,” said Governor Ryan. “These groups provide matching funds to accomplish the many important land management, habitat enhancement, and resource conservation projects in watersheds throughout Illinois.”

In November 2002 Governor Ryan announced more than \$3.8 million in C2000 grants to 30 local private-public partnerships for natural resource protection projects through the DNR. Grants this year are being used to acquire interest in more than 856 acres and restore 9,624 acres of forests, wetlands, and prairie. In addition, more than 11,000 students will be educated on the benefits of habitat restoration and protection. Governor Ryan noted that local ecosystem partnerships are matching the grants with more than \$3 million of their own funds.

The Prairie Parklands Partnership is an example of the partnerships thriving as a result of C2000. Formed in 1996 in just three counties, the Prairie Parklands partnership has been enlarged to include the Mazon River watershed. Now ranging over Ford, Grundy, Kankakee, Kendall, La Salle, Livingston, and Will counties, the partnership has welcomed the challenges that have come with this substantial addition and begun to shift the focus of the partnership to a larger area with broader issues.

Over the past 7 years, the Prairie Parklands Ecosystem Partnership has received more than 30 grants from the DNR's Ecosystems Program for several types of projects. Currently the partnership is implementing two projects—a wetland restoration and a streambank stabilization. In 1998 the partnership received funding to stabilize approximately 300 feet of severely eroding streambanks and to restore the surrounding riparian buffer. Now near completion, the project entailed selectively removing woody vegetation and planting native grasses and forbs. In 2000 the group received a grant to restore approximately 500 acres of wet and mesic prairie wetlands to drained areas within Midewin National Tallgrass Prairie. To reestablish the historically wet habitat, they filled ditches, removed drain tiles, and cleared brush. They also created a 35-acre shallow wetland to provide open water habitat for migratory birds. Finally, they planted native wet prairie grass and sedge seeds in the wetland to enhance habitat quality.

In the future the partnership hopes to focus its efforts on the broader issues of the entire watershed. As a collective group, it will face the challenge of developing a watershed plan and prioritizing subwatershed problems for the region. Prairie Parklands is eagerly anticipating the new opportunities that come with the expansion of the partnership and the shift to a comprehensive watershed focus. For more information about the Prairie Parklands Ecosystem Partnership, see the fall 2002 issue of the Illinois DNR's newsletter, the *Communicator*, at <http://dnr.state.il.us/orep/c2000/archive/communicator/fall2002/pagethree.htm>. For information about C2000 see <http://dnr.state.il.us/orep/c2000/>.

If you'd like your project to appear as our next featured article, e-mail a short description to restorationupdate@tetrattech-ffx.com.

Community-Based Restoration Partnerships

Partnership to Rebuild Prairie Potholes

Developing a common goal, gathering interested partners, and dividing the conservation work into pieces of reasonable size were the keys to success in a large prairie pothole restoration project recently completed in South Dakota. The restoration project, led by the U.S. Fish and Wildlife Service (USFWS), Ducks Unlimited (DU), and the South Dakota Department of Game, Fish, and Parks, united more than 500 partners to build 455 ponds covering 1,900 acres in the state's Prairie Pothole Region.

The project partners included farmers and ranchers who were willing to build ponds on their land. The participating farmers and ranchers agreed to pay for part of the construction costs and to plant the construction area back to grass. The USFWS and DU assisted farmers by providing the expertise necessary to construct lakes beneficial to both the farmers/ranchers and native waterfowl populations. Each pond was designed to include shallow-water areas where wetland plants could flourish, a "feathered edge" favorable to ducks and other birds, a grass buffer to reduce siltation entering and leaving the pond, and a deep-water area to benefit livestock.

A North American Wetlands Conservation Act grant provided \$984,000 to get the project started. To this amount, each partner added some of its own funds and in-kind services. Altogether, the partners contributed \$2.2 million to the project.

Information for this article was gathered from the winter 2003 issue of *Birdscapes* published by the USFWS. For more information on the partnership, contact Kurt Forman, USFWS, Box 247, Brookings, South Dakota 57006. Phone: 605-697-2500; e-mail: kurt_forman@fws.gov.

High School Students Transform a Polluted Pond into an Educational Resource

Members of Chattahoochee High School's Green School Environmental Club recognized a serious pollution problem on their school grounds. They became concerned about the condition of a large retention pond situated between the high school and the Taylor Road Middle School. Recently, the pond had become polluted with debris and petroleum fuel runoff from nearby roads and parking lots. The students became alarmed because they knew that the retention pond was geographically in and around the headwaters of John's Creek, a major tributary of the Chattahoochee River. This river system is also the main source of Alpharetta's drinking water.

As a result of the students' concerns, they created the ARCH Education Network. The acronym is short for "Active Riparian Commensal Habitats." Their idea was to convert the water detention pond into a water retention pond and wetland habitat. Instead of just slowing the water down, they wanted to design the pond in such a way that it not only would slow the water down but also would also use natural wetland vegetation filter out most of the nonpoint source pollutants entering the watershed. The students worked to raise money for the project and sought the help of government officials and local business leaders. They were able to secure a \$240,000 grant from the Community Development Fund with the help of U.S. Congressman Johnny Isakson.

With the help of a professional engineering company, the students worked to design a wetland habitat and outdoor amphitheater to be used for educational purposes. The new wetland will serve as a natural filter, removing pollutants before the water reaches John's Creek.

ARCH has worked to enhance the school curriculum by using the environment as an integrative context for learning. The Green School Environmental Club was able to raise another \$50,000 in donations and secured an additional \$25,000 grant from General Electric. The GE grant was used to train teachers to use ARCH as an educational tool. The students even produced a virtual-reality tour of the ARCH site. Future plans include the installation of interactive "talking trees" and lighting for nighttime use. The Green School Environmental Club hopes to build a greenhouse to facilitate the propagation of milkweed plants. The greenhouse will also provide students with training in horticultural techniques. Eventually, the club would like to research the migratory habits of the Monarch butterfly.

According to the National Geographic Society, "The ARCH Educational Network, envisioned and created by the Green School Environmental Club and the AP Environmental Science Club of Chattahoochee High School, is a model environmental program that could be replicated in other communities. They have taken a 'real estate eyesore' retention pond and transformed it into an

instrument to energize the curriculum, from art to zoology. This is a fine example of a project that engages students in higher-order thinking and geographic analysis with positive results affecting their entire community.”

This project was awarded a 2002 Seaworld Environmental Excellence Award. More information on the project can be found at www.seaworld.org/EEAwards/2002/EEAwinners.htm.

If you are part of an innovative community-based partnership that is working to restore river corridors or wetlands, we'd like to hear from you. Please send a short description of your partnership to restorationupdate@tetrattech-ffx.com.

Achieving Restoration Results

Waterfowl Benefit from Sloughs Wildlife Management Area Restoration Project

A recently completed wetland project at the Sloughs Wildlife Management Area near Geneva in Henderson County, Kentucky, was dedicated on Saturday December 14, 2002. The project had created and enhanced 100 acres of wetland habitat for waterfowl and wetland species. Funding partners included the Kentucky Department of Fish and Wildlife Resources (KDFWR) and Ducks Unlimited (DU) through their Matching Aid to Restore States Habitat (MARSH) donor program. This program allows DU's major donors to designate contributions for specific projects.

The wetland enhancement included the design and construction of an earthen levee and the installation of water control units on the Wood Tract of the Sloughs Wildlife Management Area. The levee and water control units allow KDFWR to seasonally flood the area to maintain the proper hydrology for native moist soil vegetation and a small segment of bottomland hardwood habitat for waterfowl.

Since its creation the MARSH program has provided funding for more than 7,100 acres of habitat improvement projects in Kentucky. The projects are in all 50 states and benefit ducks, geese, other waterfowl, and wetland-associated wildlife.

“These types of jointly sponsored projects are crucial in meeting our goals for wetland conservation and our common commitment to species that depend on wetland habitat to survive and prosper,” commented Dr. Jon Gassett, KDFWR wildlife division director.

For more information on this project, visit www.ucadvocate.com/cgi-bin/view.cgi?/200212/11+Wetland-project-to-be-dedicated-Saturday-12-11-02_inews.html+20021211+inews. For more information about DU's MARSH program, visit www.ducks.org.

Louisiana Rice Fields Are a Haven for Wading-Bird Populations

More than a half-million acres of agricultural wetlands are present in Louisiana north of the Gulf of Mexico. These wetlands, used to raise rice in the summer and crawfish in the winter, have long been famous for attracting millions of waterfowl, wintering and migrating shorebirds, and a potpourri of wading birds.

The practice of growing rice in the warm months and crawfish in the cool months is a great example of successful sustainable agriculture in America. Rice is cultivated in shallow water during the warm months. A shallow flood is maintained over the rice fields for weed control and is removed from July to September for the rice harvest. The fields are then refilled to dispose of rice stubble, control weeds, attract waterfowl, and raise crawfish. Crawfish survive in the burrows in levees during warm months and emerge with young in the fall. The crawfish thrive on the rice seeds and the organisms that feed on the decomposing rice stubble. This practice also created crucial habitat for waterfowl in an area estimated to have lost more than 1 million acres of coastal wetlands during the past half-century.

The central Gulf's coastal agricultural land attracts more than 270 bird species annually. In fact, Louisiana is known for its expanding populations of wading birds, which gather to feed on the invertebrates and small vertebrates associated with the crawfish ponds. Waterfowl, shorebirds, terns, gulls, and raptors have all been observed in these artificial wetland habitats.

Information for this article was gathered from the winter 2003 issue of *Birdscapes*, published by the US Fish and Wildlife Service. For more information about Louisiana rice fields, contact Jay Huner, University of Louisiana at Lafayette, Crawfish Research Center, 1031 W. J. Bernard Road, St. Martinville, LA 70582. Phone: 337-394-7508; e-mail: jhuner@louisiana.edu.

If you are part of an innovative restoration project that has had positive results, we'd like to hear from you. Please send a short description of your project to restorationupdate@tetrattech-ffx.com.

Funding for Restoration Projects

Natural Resources Conservation Service Wetlands Reserve Program

The Wetlands Reserve Program (WRP) is a voluntary program offering landowners the opportunity to protect, restore, and enhance wetlands on their property. The USDA Natural Resources Conservation Service (NRCS) provides technical and financial support to help landowners with their wetland restoration efforts. The goal of the NRCS is to achieve the greatest wetland functions and values, along with optimum wildlife habitat, on every acre enrolled in the program. This program offers landowners an opportunity to establish long-term conservation and wildlife practices and protection. All forms and application information for the WRP are now available at www.nrcs.usda.gov/PROGRAMS/wrp.

Wal-Mart Environmental Grants

Each Wal-Mart store has an allocation of money for environmental grants to nonprofit organizations and schools to support environmental efforts and education in communities where stores are located. More than \$1.5 million was granted nationwide last year. Individual grants awards are usually about \$2,500. Grant applications, accepted on an ongoing basis, are available and are submitted through local stores, but decisions are made in Arkansas. Wal-Mart also gives grants under the categories of community, children, and education. For more information visit www.walmartfoundation.org or contact your local Wal-Mart store.

Greater Lowell Community Foundation Watershed Grants

The Greater Lowell Community Foundation seeks proposals that protect, conserve, and improve the Nashua, Sudbury, Assabet, Concord, and Merrimack River watersheds in Northern Middlesex County, Massachusetts. Proposals can include a broad range of water-related projects involving biological conservation and habitat restoration projects, water monitoring, community-based cleanups and other grassroots stewardship activities, point and nonpoint source pollution prevention actions, GIS inventory of riparian and related open space features, school- and community-based water resource education programs, and other science-based water resource management projects that have direct and practical application. A total of \$5,000 is available for each watershed; grant proposals should be in the \$2,000 range. Proposals for this round of grants are due in the Community Foundation's office by 5 p.m. Friday, March 14, 2003.

For more information, contact David Kronberg, Executive Director, Greater Lowell Community Foundation, Inc., 169 Merrimack Street, 5th Floor, Lowell, MA 01852-1723. Phone: 978-970-1600; fax: 978-970-2444; Internet: www.glcfoundation.org; e-mail: dave.glcfoundation@verizon.net.

Please send any news you have on funding mechanisms available to local community organizations to restorationupdate@tetrattech-ffx.com.

News and Announcements

Alabama Receives Conservation Grant

The Alabama Department of Conservation and Natural Resources is the recipient of a \$682,000 land acquisition grant from the U.S. Fish and Wildlife Service. The grant enables the state to purchase land for the Turkey Creek Watershed Conservation Project in Jefferson County.

Governor Don Siegelman acknowledged the significance of the project: "The Turkey Creek Watershed Project is an example of the conservation initiatives that set Alabama apart from other states. Alabamians care about their land, their water, and their wildlife. Most important, they do something about it."

The Turkey Creek watershed is typical of the rich biological diversity found in the state of Alabama. In fact, Alabama ranks as the fourth most biologically diverse state in the nation. The acquisition project will protect critical buffer lands along Turkey Creek and its tributaries. Acting Conservation Commissioner Richard Liles praised the efforts of those involved. "Alabama is fortunate to have such excellent collaborative efforts between conservation partners who are committed to protecting the watershed. This acquisition helps ensure water quality, which is critical to imperiled and other species that occur there."

The project will help meet the recovery plan goals for a host of species, but most important for those who have nowhere else in the world to call home. Conservation of this critical watershed must occur within the immediate future, or the opportunity for protection of Turkey Creek's unique and imperiled species will be lost forever.

"Turkey Creek is a very special place that is steeped in history, rich with biological diversity, and blessed with scenic beauty," said Wendy Allen, Executive Director, Black Warrior-Cahaba Rivers Land Trust. "The Land Trust applauds the Alabama Department of Conservation and Natural Resources, who worked to secure funding for the Turkey Creek project."

Alabama is one of 17 states to receive a grant. Grants were awarded on a competitive basis from the Fiscal Year 2001 State Wildlife Grants Program funding made available under Title VIII of the FY 2001 Interior Appropriations Act. The Act provided authority for the U.S. Fish and Wildlife Service to award grants to states and territories to participate in a wide array of voluntary wildlife conservation projects.

For more information about the Alabama Department of Conservation and Natural Resources, contact the Information and Education office at 334-242-3151. To view the press release, visit www.dcnr.state.al.us/administrative/ie/turkeycreek.htm.

US. Department of Agriculture Announces Agreement with Pheasants Forever

On January 11, 2003, Deputy Secretary of Agriculture Jim Moseley announced a cooperative partnership with Pheasants Forever to help improve the nation's wildlife habitat.

"This Administration is committed to protecting natural resources and wildlife habitat," said Moseley. "Partnerships such as this help promote common sense environmental stewardship practices so working lands are conserved for farmers, ranchers, and those who love wildlife."

The agreement, the first between the two organizations, establishes a framework of cooperation that encourages conservation projects for wildlife habitat, technical assistance for landowners, information and education materials, collaboration on habitat and wildlife research, and development of habitat enhancement techniques.

Moseley also announced that the U.S. Department of Agriculture's Natural Resources Conservation Service (NRCS) will create a liaison position with Pheasants Forever that will aid in using new technology and approaches to deliver conservation programs at the local level.

“The agreement will help us work together to enhance the productivity of habitat for pheasants and other wildlife,” NRCS Chief Bruce Knight said. “Wildlife is an important resource concern in the agency’s ecosystem-based approach to conservation.”

Pheasants Forever, celebrating its 20th anniversary, is dedicated to protecting and enhancing pheasant and other wildlife populations in North America through habitat improvement, land management, public awareness, and education. For more information, visit www.pheasantsforever.org. NRCS provides planning, technical, and financial assistance for the conservation of natural resources on private lands. For more information, visit www.nrcs.usda.gov. For more information on the partnership, contact Matt Lloyd at 202-720-4623, or visit www.usda.gov/news/releases/2003/01/0008.htm to view the press release.

Upcoming Conferences and Events

New Listings

Designing Green Partnerships of Nature and Humanity

May 28–30, 2003

College Park, Maryland

The Biological Resources Engineering Department at the University of Maryland—College Park announces the American Ecological Engineering Society’s third annual meeting. The purpose of this conference is to provide a venue and forum for meaningful discussion dedicated to the theory, principles, practices, and academic foundations of ecological engineering. The program will consist of plenary speakers, poster presentations, and panel discussions. For more information or to register, visit www.bre.umd.edu/aees2003/index.html.

Wetland Stewardship: Changing Landscapes and Interdisciplinary Challenges

June 8–13, 2003

New Orleans, Louisiana

The conference will focus on understanding the interdisciplinary scientific needs and innovative approaches for the stewardship of wetland ecosystems across ever-changing landscapes. This meeting will focus on developing the science and approaches needed to meet the challenges of stewardship across diverse and changing geographic landscapes, sociopolitical boundaries, scientific disciplines, and varying scales of assessment. The coupling of traditional and applied wetland sciences with ecological, physical, engineering, economic, and social sciences will be highlighted. Awards will be given for the best student paper and best student poster.

For further information contact one of the Program Committee co-chairs: Doug Meffert (dmeffert@tulane.edu) or Robert Twilley (ceet@louisiana.edu) or visit the Web site www.sws.org/neworleans/welcome.htm.

Previous Listings

Building Viable Habitats: Resources for the Ecological Landscape

February 28–March 1, 2003
Boxborough, Massachusetts

This conference is cosponsored by the Ecological Landscaping Association, University of Massachusetts, and New England Wildflower Society. The workshops, presented by experts, will provide information on ecological lawn care, soil management, pest control, tree and shrub care, ecological design, weed management, and more. In addition, this year's conference will include an Eco-Marketplace featuring more than 50 vendors of products and services related to ecological landscaping and conservation. The conference might be a good opportunity to connect with horticultural professionals knowledgeable about wetland plants and species. For more information, visit www.ela-ecolandscapingassn.org and click on the Events Calendar link or contact Ecological Landscaping Association's Conference Coordinator, Nancy Askin, at 978-425-0101 or Kathleen Carroll at 413-545-0895.

Schuylkill Watershed Congress

March 1–2, 2003
Reading, Pennsylvania

Occurring annually since 1998, the Schuylkill Watershed Congress raises awareness of the watershed concept, offers training opportunities for river advocates, and fosters important partnerships for watershed protection and restoration. The first day of the conference will offer more than 30 sessions addressing a broad range of topics such as watershed education, conservation landscaping, groundwater basics, citizen group success stories, watershed assessment approaches, agricultural best management practices, riparian restoration, floodplain protection, storm water management, and watershed planning. The second day will consist of watershed tours. For more information, contact Chari Towne of the Delaware Riverkeeper Network at P.O. Box 459, Saint Peters, PA 19470. Phone: 610-469-6005; fax: 610-469-6025.

Wetlands '03: Ninth Annual Conference and Membership Meeting of the New York State Wetlands Forum

March 11–12, 2003
Saratoga Springs, New York

The ninth annual meeting of the New York State Wetlands Forum will examine a variety of wetland-related issues and developments and discuss their statewide and regional impacts. Sessions will include both research-related topics and information for local government officials. Abstracts are currently sought on a variety of topics, including tribal wetlands, habitat assessment, waterfront revitalization programs, legislative and regulatory updates, urban wetland restoration, tidal wetlands and special aquatic sites, and nutrient cycling in wetlands. For more information about the conference or for a complete list of topics, visit www.wetlandsforum.org or e-mail info@wetlandsforum.org.

To post your restoration news and announcements, please send information to restorationupdate@tetrattech-ffx.com.

Restoration-Related Web Sites

<http://gulfofmaine.org>

The Gulf of Maine Council on the Marine Environment. The mission of the Gulf of Maine Council is to maintain and enhance environmental quality in the Gulf of Maine and to allow for sustainable resource use by existing and future generations. The Web site provides links to habitat restoration grants, a discussion forum, and a calendar of events. *This site would be useful for anyone planning a restoration effort in the Gulf of Maine or seeking to learn more about restoration efforts there.*

www.manomet.org/whsrn

Western Hemisphere Shorebird Reserve Network. The Network is dedicated to conserving shorebirds across the Americas. This Web site has information on sites being managed to restore shorebird populations. More than 30 U.S. shorebird conservation sites are currently listed. *This Web site provides information on the history and biology of current shorebird restoration projects throughout the U.S.*

www.pwrc.usgs.gov/library/duckdata

Duckdata. Duckdata provides a comprehensive bibliography of published literature on the ecology, conservation, and management of North American waterfowl and their wetland habitats. The primary objective of Duckdata is to provide access to the extensive literature concerning North American waterfowl, including references emphasizing waterfowl ecology, conservation, and management. The database can be searched by author or keyword. *This site would be useful for anyone looking for information on the ecology or conservation of North American waterfowl.*

<http://www.wildlifehc.org>

Backyard Conservation Lesson Plans. The Wildlife Habitat Council developed these lesson modules for grades 3 to 12 to help students appreciate wildlife in their backyards and take steps to create additional wildlife habitat in their communities. Lesson plans include a unit on amphibians and their habitats and highlight steps students can take to restore wetland habitats in their neighborhoods. Click on the Backyard Conservation graphic to access the lesson plans. *This Web site provides lesson plans designed to encourage young people to restore local wetlands.*

www.ecofloridamag.com

EcoFlorida Magazine. EcoFlorida is a quarterly publication designed to promote nature travel and ecotourism. The Web site contains an archive of past articles, many of which highlight wetland restoration projects completed in Florida. *This Web site would be useful for anyone looking for stories of successful restoration projects in Florida.*

www.gulfrestorationnetwork.org/overview.htm

Gulf Restoration Network. Gulf Restoration Network is a network of individuals and environmental, citizen, and labor groups committed to restoring the Gulf of Mexico to an ecologically and biologically sustainable condition. The Web site provides information on the laws that protect the Gulf of Mexico, recently released reports on the Gulf, and the status and trends of Gulf ecology. *This Web site would be useful to anyone interested in the restoration and protection of the Gulf of Mexico and its ecosystems.*

www.friendsofcongaree.org/mission.php

Friends of Congaree Swamp. The mission of Friends of Congaree Swamp is to increase awareness of Congaree Swamp National Monument, protect and restore the ecosystems of the park, enhance the education and research opportunities related to the swamp, and support the park through volunteer service and fundraising. The Web site contains links to a newsletter highlighting restoration efforts in the park and also provides a schedule of activities and training classes offered by the Friends. *This Web site provides an example of what a local group can do to support the operation of a National Monument and increase awareness about the benefits of a swamp as a public resource.*

http://sofia.usgs.gov/virtual_tour/corkscrew

Corkscrew Swamp Sanctuary. The Corkscrew Swamp Sanctuary, operated by the Natural Audubon Society, contains many distinct environmental areas, including pinelands, freshwater marshes, cypress swamps, and hardwood hammocks. This Web site offers a virtual tour through the rare ecosystems present at the sanctuary. *This Web site provides excellent pictures and descriptions of rare wetland ecosystems.*

www.floridadep.org/water/wetlands/docs/fwric/wrhb_out.pdf

Florida Wetland Restoration Guidebook. This online handbook provides the reader with nontechnical guidance for multiple aspects of wetland restoration. It demonstrates restoration techniques and highlights techniques using examples from Florida case studies. *This Web site would be useful for nontechnical audiences needing guidance through the multiple steps of the wetland restoration process.*

www.solv.org/index.shtml

SOLV is a nonprofit organization that brings together government agencies, businesses, and individual volunteers in programs and projects to enhance the livability of Oregon. Currently planned projects include several beach cleanups and Team Up For Watershed Health, a program that mobilizes volunteers to complete watershed health-related projects. *This site provides contacts for anyone wishing to get involved in Oregon restoration projects, and it also offers useful information for other groups seeking to motivate volunteers.*

www.millcreekrestoration.org/index.html

Mill Creek Restoration Project's mission is to serve as catalyst for developing sustainability in Ohio's Mill Creek watershed through community-based planning and empowerment, environmental education, and economically sound ecological restoration. *This Web site provides information about developing an action plan and building community partnerships to achieve the group's goals.*

Let us know about your restoration-related Web site. Please send relevant URLs to restorationupdate@tetrattech-ffx.com.

Information Resources

A Regional Guidebook for Applying the Hydrogeomorphic Approach to Assessing Wetland Functions of Riverine Floodplains in the Northern Rocky Mountains

This report offers an overview of the Hydrogeomorphic (HGM) Approach, including HGM developmental history, the major components of HGM and its development and application phases, factors that influence wetland functions on riverine floodplains in the northern Rocky Mountains, and wetland functional indices. It also includes necessary assessment protocols, field methods, and computing procedures. The complete report can be downloaded from <http://libweb.wes.army.mil/uhtbin/hyperion/EL-TR-02-21.pdf>.

Watershed Protection Presentation Materials

By the Center for Watershed Protection

Six of the Center for Watershed Protection's most popular slideshows are now available on CD-ROM. The full set of presentations includes "Why Watersheds?," "Better Site Design," "Impacts of Urbanization," "The Eight Tools of Watershed Protection," "Approaches to Stormwater Management," and "Stormwater Practice Design." The set is available for \$115 and can be purchased from the Center's on-line store at www.cwp.org.

2003 Conservation Directory

By the National Wildlife Foundation

This resource provides access to nearly 4,000 governmental agencies, nongovernmental organizations, and colleges and universities, as well as more than 18,000 officials concerned with environmental conservation, education, and natural resource use and management. The *2003 Conservation Directory* can be ordered at www.islandpress.org/nwf/nwfem03.html or can be accessed on-line at no charge at www.nwf.org/conservationdirectory.

The *Confluence* Newsletter

By the Central Appalachian Watershed Network

This on-line newsletter is dedicated to strengthening the ties between groups involved in improving the economic, ecological, and quality of life factors that collectively contribute to watershed health in the Appalachian region. The newsletter contains information on successful watershed groups, funding sources, and resources for strengthening and maintaining watershed groups. To subscribe to the free bimonthly newsletter, send an e-mail to Scott Miller at Miller@ilgard.ohiou.edu and ask to be subscribed to the *Confluence* mailing list.

If you'd like to publicize the availability of relevant information resources, please send information to restorationupdate@tetrattech-ffx.com.