

Attention Teachers & Community Educators!

2012–13 Professional Development Workshops

This year, the **Great Swamp National Wildlife Refuge**—one of 553 national refuges administered by the U.S. Fish and Wildlife Service—has partnered with two other influential regional organizations, the **Great Swamp Watershed Association**, and the **Friends of the Great Swamp National Wildlife Refuge**, to offer three hands-on professional development workshops for teachers and educators in northern New Jersey.



Our workshops meet NJ Core Curriculum Content Standards and train you to deliver fun and engaging lessons about water.

About Our Teacher Training Workshops

Water provides a common theme for each workshop. Whether offering instruction in scientific inquiry, civic responsibility, history, or a host of other subjects, each model curriculum focuses on the critical role water plays in our lives and the functioning of our entire planet. And each fun, activity-packed lesson plan will help you introduce and deepen your students' understanding of water resource issues here in our region and around the world.

All of the lesson plans provided by our qualified instructor meet New Jersey Core Curriculum Content Standards, and each workshop includes indoor and outdoor experiences for you to share with your classes. Educators receive up to six (6) Professional Development Credits (PDC) for participating in each workshop. All participating educators receive a curriculum guide and other useful resources as part of the registration fee.

Fee & Registration

The fee for participation in each workshop is **\$20 per person**. Register online at www.GreatSwamp.org or by emailing Great Swamp Watershed Association's Director of Education and Outreach Hazel England at hazele@greatswamp.org.

Workshop Location

All workshops take place at the **Helen C. Fenske Visitor Center** located inside the **Great Swamp National Wildlife Refuge** at 32 **Pleasant Plains Road** in **Harding Township**, New Jersey.



Complete Workshop Descriptions On Reverse

2012–13 Teacher Training Workshops

Workshop #1 — Project WET

Thursday, November 29, 2012, 9 a.m.—3 p.m.

Project WET is a collection of nearly 100 science-based, interdisciplinary activities with teacher-tested, classroom-ready lesson plans for K through 12 students. Activities use the vital importance of water to educate students about diverse topics. The updated guide is integrated into new online resources that make learning fun. Take the Water Olympics challenge to learn about the properties of water. Go on an Incredible Journey to learn more about the real water cycle. Track the transmission of disease as you follow along with Poison Pump, an exciting whodunit that is sure to get your students' attention. The Project WET teacher's guide is only available to educators who participate in a six-hour Project WET Workshop. Lessons in the guide are correlated to New Jersey Core Curriculum Content Standards. Workshop participants also receive supplementary educational materials focusing on New Jersey's water resources.



Students from a classroom at Salt Brook Elementary School in New Providence learn how water moves over and through a watershed.



Students from a science class at Garfield High School in Garfield, NJ, collect samples for water quality testing at an outfall along the Passaic River.

Workshop #2 — Testing the WATERs!

Saturday, February 9, 2013, 9 a.m.—3 p.m.

How much of the earth's water is actually clean, safe, and available to drink? How can knowing what lives in a stream tell you about what has happened to it in the recent past? How can water testing help protect our water supplies? Find out just how much we learn by testing local streams and ponds in the Great Swamp Watershed region. We will use inexpensive, easy-to-obtain water quality test kits to maximize the scientific know-how you take away from this hands-on program. This workshop takes place indoors and out. It features engaging lessons that introduce and deepen your students' understanding of water resource issues. All activities relate to core content standards, and provide engaging instruction designed to help your students gain real-world science experience and critical problem-solving skills. Participants end the workshop with a new understanding of the importance of chemical and biological water quality monitoring, and the uses of data generated by water testing. This workshop is well suited for formal and informal educators teaching in grades 4 through 12, and beyond.

The Wonders of Wetlands (WOW!)

Saturday, March 16, 2013, 9 a.m.—2 p.m.

Why is a wetland like a sponge? Can recreating a wetland in a kitchen pan tell you why protecting the soil is critical for water quality? Come to this workshop and learn all the answers to these water- and wildlife-based puzzles. The Wonders of Wetlands, also known as WOW!, is an engaging and activity-packed guide for formal and informal educators alike. It provides a resourceful and creative collection of wetland-related activities, information, and ideas that can be integrated into all areas of your curriculum. WOW! has been called, "the most comprehensive introduction to wetland issues and definitions." The WOW! guide includes more than 50 hands-on, multidisciplinary activities in lesson-plan format, extensive background information about wetlands, ideas for student-action projects, and a wetlands resource guide. This workshop is well-suited for educators teaching in grades K through 8, as well as those who might have access to, or are considering creating their own wetland education site or field trip.