



SCENTS

Soil Conservation & Environmental News for Teachers and Students

I encourage you to review our winter teacher workshop course offerings. January's workshop, Wild on Resources, will include hands-on activities from a variety of resources. February will give you a choice of two workshops to attend. On February 4th, the highly requested Science Through Stories workshop will be offered, using all new literature books and science learning activities. At the end of February, on the 25th, we will be using the NEW Project WET book. Project WET is an acronym for Water Education for Teachers. This book is recently published with new activities and full-colored pages. If you have been through one Project WET workshop, using the old book, I strongly recommend getting the new book, as it is completely different activities and uses more technology in the learning activities. Finally, on May 5th, our final workshop will be using the Science and Civics curriculum. This teaches about wildlife management, biology, and the moral and ethical decisions behind these laws and decisions.

****REMEMBER**** for every two workshops you attend, you can receive one credit hour from ASHLAND UNIVERSITY. Please take advantage of this opportunity. We work hard to offer these workshops for you to learn new hands-on learning methods. Hope you can attend. Call the SWCD office at 740-368-1921 if you have questions.

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Transitioning to New Content Standards

As you work with your curriculum director, and devise a plan to transition to the new standards, please keep the SWCD education and outreach program informed. I have correlated most of the programs to the new standards, but I need to hear from you when you are going to start implementing the standards. Each school district is approaching the task differently. If you need hands-on resources to teach an environmental topic that is new to your grade level, the Delaware SWCD can help you. The new model curriculum being used will have its adjustments, as you know, but I am confident about the resources the SWCD can offer your students.

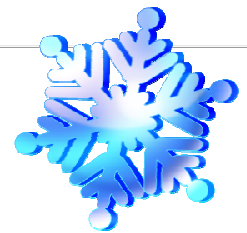
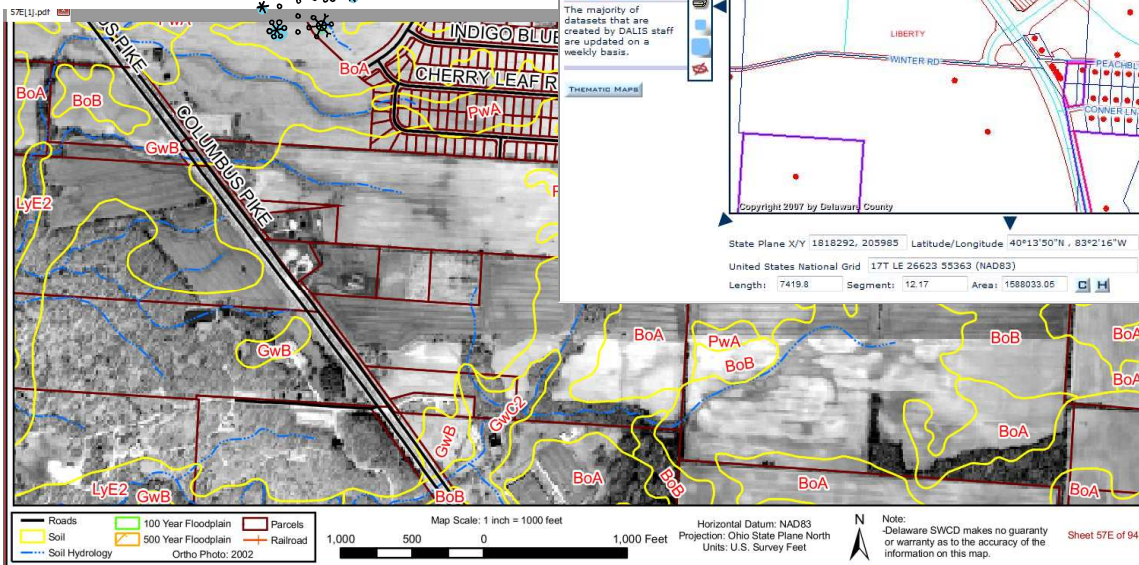
Featured Lesson

Where Does Water Run?, Grades 7 - 8

Printed in Project WILD Aquatic, this activity incorporates math and technology into teaching students a lesson on watersheds. Students have to measure and calculate the area of a given spot, calculate the volume of rain coming into that spot, plus trace the course of the water. Aerial photography, topographic maps, and soil surveys are all used in this project. By using the DALIS (Delaware Appraisal Land Information System), available through the county auditor's website, <http://www.dalisproject.org/>, the acres or square footage of land can be calculated, among other things. Visit the Delaware SWCD website, www.delawareswcd.org, to access the on-line county soil survey and aerial photos. Watershed boundaries, runoff volume, percolations, and changes in stream morphology are all taught from this lesson. Plan on using two class periods (at least 90 total minutes) to complete the entire learning activity. If you do not have the Project WILD and Project WILD Aquatic curriculum guidebooks, they are available free of charge from the Division of Wildlife, when you attend at Project WILD educators workshop. To see upcoming Project WILD workshops in your area, visit <http://www.ohiodnr.com/tabid/5864/default.aspx> and click on training workshops. These books have over 150 hands-on learning activities correlated to topics that vary from grades K - 12.

Right: DALIS Project shades in the parcel and helps students by measuring the area.

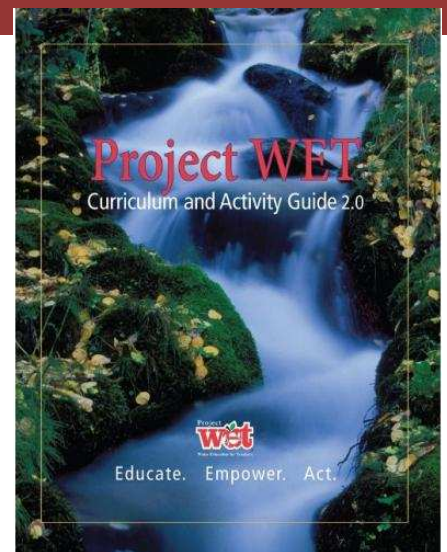
Below: Soils maps helps students see what waterways are near that may be impacted by runoff and it labels the soil boundaries for the property.

Tidbits for Educators

Brand New Project WET Book Released *Water Education for Teachers*

The Project WET Curriculum and Activity Guide 2.0 continues Project WET's dedication to 21st-century, cutting-edge water education. Now in full color, Guide 2.0 offers new activities on topics such as National Parks and storm water, fully revised and updated activities from the original guide and the very best activities gathered from all of Project WET's publications. Suitable for educators at all levels and subjects, Guide 2.0 is available as part of a Project WET workshop or training. Please try to attend the workshop on February 25th to receive your new guide.



Remember to periodically get your garden soil tested if you think your produce didn't yield as anticipated. Sometimes nutrient levels are fine in the soil, but the pH level is too high or low. An imbalanced pH can cause plants to not absorb the available nutrients.

Soil Tunnel is Coming to Delaware SWCD

In October the Delaware SWCD was awarded a \$15,623 grant from the Ohio Environmental Education Fund to purchase the inflatable tunnel that is pictured above. This tunnel was developed and copyrighted by the New Jersey Association of Conservation Districts. There is only one tunnel like this in the United States. The Delaware SWCD is excited to be purchasing the second tunnel in the U.S. This tunnel teaches about soil layers, drainage, organisms that live in the soil, soil variance among different land uses, and conservation. Look for this display to be set up throughout the year at different festivals and fairs in the county. In time, it will be available to come to schools for teachers to use. We anticipate other SWCDs in Ohio will be renting this soil tunnel for festival and fairs during the summer months.

Resources For YOU

Upcoming Events

2012 Summer Workshops to be Held at Conservation Area located on Fairgrounds

Mark your calendars now if you are interested in attending any of the backyard conservation workshops that will be hosted at the SWCD Conservation Area in June. Final costs and registration forms will come out in January. Check the SWCD website for registration forms, as they will be posted there when they become available. Here is the planned agenda:

June 4th - Rain Barrel Workshop

All registered participants will receive a rain barrel. Dona Rhea, SWCD, Presenter

June 18th - Managing Wildlife Damage

All participants will receive a box of Plant Skydd that protects plants and trees from squirrels, rabbits, deer, and other wildlife damage. Steve Harvey, Wildlife Officer, Presenter.

June 25th - Planning and Maintaining Native Plants in Landscape.

All participants will receive a packet of mixed annual and perennial flower seeds to start a new flower garden.

December 14 - 16	Project WILD Workshop at Delaware Area Career Center
December 25	Christmas
January 1	New Year's Day
January 1	Last day for Wild Lights at Zoo
January 21	Wild About Resources Teacher Workshop at Highbanks Metro Park
February 4	Science Through Stories Teacher Workshop at Spring Hollow
February 4	Community Gardens Leaders Training
February 25	Project WET Teacher Workshop at Highbanks Metro Park
March 24	Green Thumbs Gardeners Fair

Conservation Education Workshop is Back!!

I am excited to announce this popular, conservation education conference organized by ODNR-Division of Soil and Water Resources is being planned again. Details are in the very beginning planning stages. I will let you know when the registration and agenda is available. Plan on the 2 ½ day workshop being held in August, 2012. I hope you take advantage of this before school starts up for the 2012 – 2013 school year.

District programs and services are offered on a non-discriminatory basis.

Delaware Soil and Water Conservation District
557-A Sunbury Road
Delaware, Ohio 43015
Phone: (740)368-1921 ext. 4 Fax: (740)369-8321
www.delawareswcd.org



Franklin and Delaware Soil and Water and Metro Parks are Helping Teachers Link Their Students to the Environment With Environmental Workshops for Educators

A series of science based workshops for educators of all types held at the nature center of High Banks Metro Park on Route 23 just north of I 270, except Science Through Stories on February 4th will be held at Spring Hollow Lodge, adjacent to Metro Parks District Headquarters.



Wild About Resources on Saturday, January 21, 2012, 8:30 am – 4:00 pm

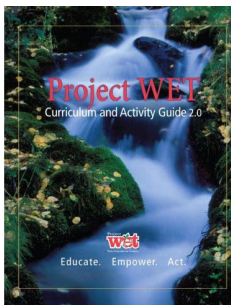
Participants will experience a combination of interdisciplinary hands-on activities focusing on wildlife, ecosystems, interdependence and human impact on the environment. Sources for these and related activities will be discussed. Activities for grades K-12. Registration fee is \$15.

Science Through Stories on Sat., February 4, 2012 (at Spring Hollow) 8:30– 4:00

Many children’s stories have a good environmental message. Learn how to use literature as a basis for exploring and explaining different environmental topics. Geared for grades preK – 5. Registration fee \$20.



Project WET, Generation 2.0 on Saturday, February 25, 2012 8:30 am – 4:00 pm



Experience and receive the **new** edition of Project WET: Water Education for Teachers. Now in full color, Guide 2.0 offers new activities on topics such as National Parks and storm water. This resource guide contains teacher-tested and classroom ready interdisciplinary activities developed to engage students in a better understanding of water as a resource, a habitat and a source of life. Guide 2.0 includes dozens of new activities, updates of many original activities and extensive literature connections. Activities for grades K-12. Registration fee is \$25.



Project WILD’s Science and Civics: Sustaining Wildlife, Saturday, May 5, 2012 8:30 – 4:00

Designed to serve as a guide for involving students in environmental action projects aimed at benefitting the local wildlife found in a community, this curriculum can help teachers effectively meet state science and social studies standards. It is also designed to involve young people in decisions affecting people, wildlife, and the habitat they share in their community through the development and implementation of a Service Learning Project. Geared for grades 9-12. The registration fee is \$10, materials are provided by ODNR: Division of Wildlife.



For more information contact:

Elizabeth Fields at Highbanks Metro Park, (614) 846-9962 or fields@metroparks.net

Linda at the Franklin SWCD, (614) 486-9613, ext. 115 or Linda-pettit@franklinswcd.org

Or Dona Rhea at the Delaware SWCD, (740) 368-1921 or dona-rhea@delawareswcd.org



Winter 2012 Additional Information



- Each session is a complete workshop including: introduction to the program, instructor led activities, participant driven learning and evaluation. All curricular materials are adaptable for many age groups.
- A continental breakfast and beverages will be provided; please bring your own lunch.
- Participants may choose to attend any one or more of the workshops. You will receive documentation of the nature of the workshop and your contact hours of participation. Completion of any 2 sessions and the accompanying assignment qualifies you for 1 graduate semester hour through Ashland University. The fee is \$182 per credit hour.

These workshops are coordinated by the Delaware and Franklin Soil and Water Conservation Districts, Highbanks and Sharon Woods Metro Parks and the Delaware General Health District. The workshops are co-sponsored by the Environmental Education Council of Ohio and made possible in part by a generous grant from the Ohio Environmental Education Fund.



Workshop Registration:

Name _____ Phone _____

Address _____

City _____ State _____ Zip _____

Email _____

School or Organization _____ Grade Level: _____

Workshop(s) Attending

Resources	Stories	WET	Science and Civics
\$15	\$20	\$25	\$10

Total Workshop fees: _____

Circle appropriate workshops, total the fees and send this registration form with a check payable to: **Franklin SWCD attn: Linda Pettit, 1328 Dublin Road, Suite 101, Columbus OH 43215**
At least one week prior to the first workshop you plan to attend.