

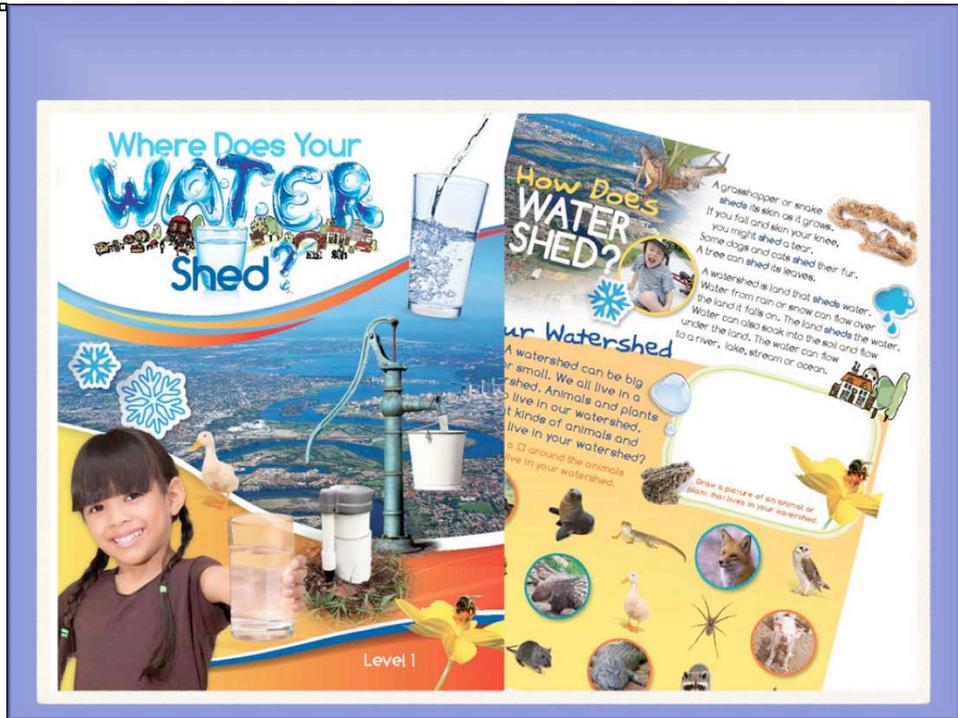
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Where Does Your
WATER
Shed?

Tuesday, January 29, 2013 – NACD Annual Meeting

Susan Schultz – NACD Education & Stewardship Specialist, IN
Debbie Ruff – Livingston SWCD, IL

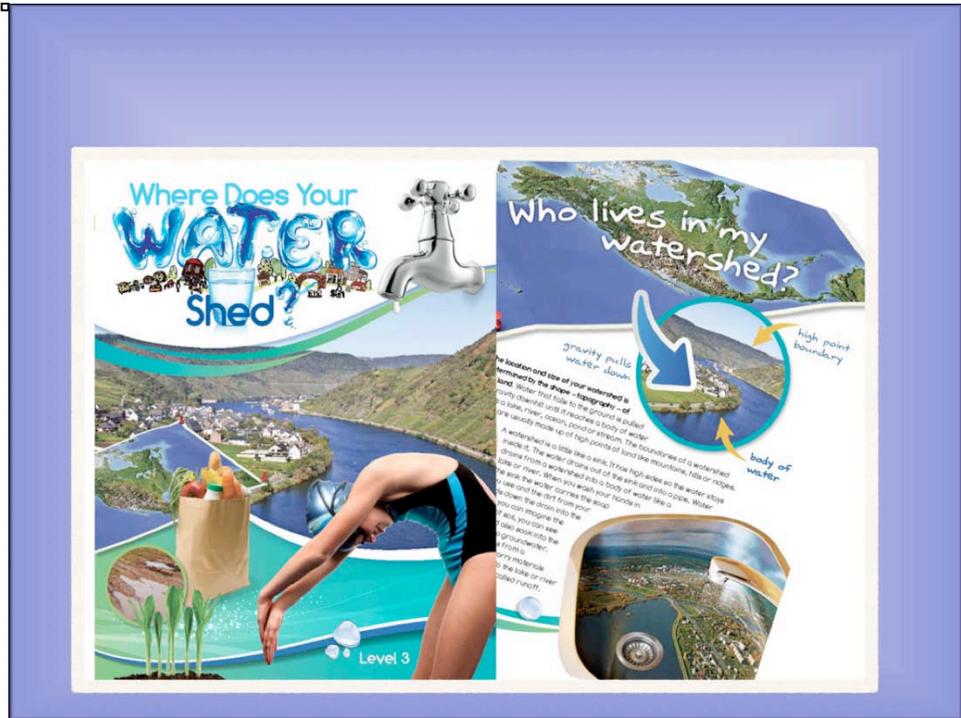
Susan Schultz – NACD Education & Stewardship Specialist, IN
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Level I Booklet



Level 2 Booklet



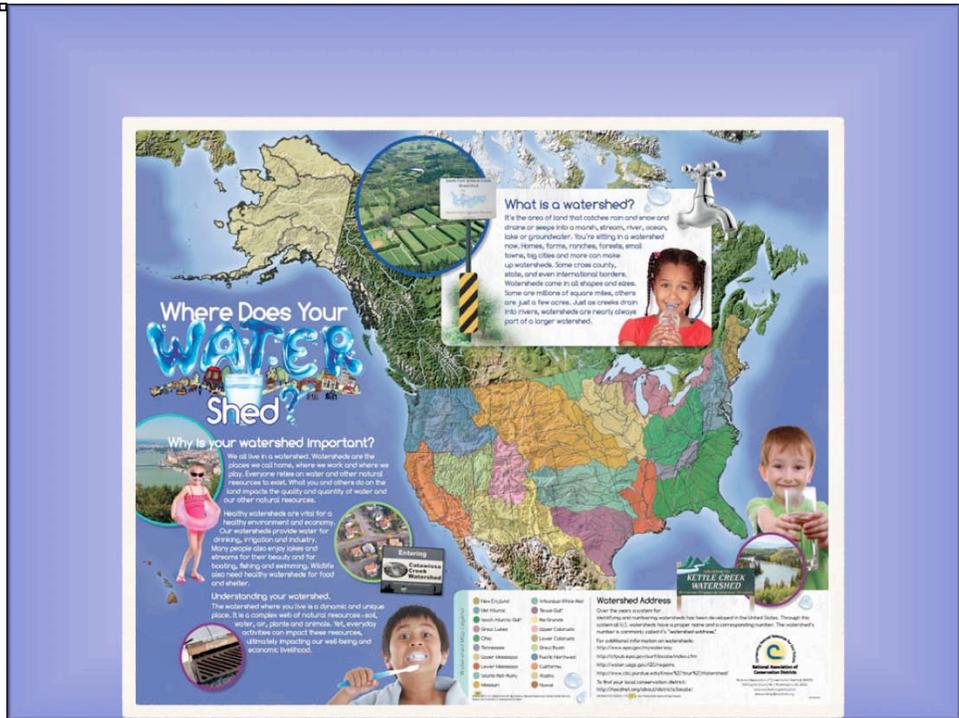
Level 3 Booklet



Level 4 booklet



Big Book



Poster

Wh



Bookmark – room for label or stamp on back of book mark

Flowing In A Watershed

Leaky Soil vs **Packed Soil**

Use Water!

FOOD: ...
CLOTHING: ...
FUN: ...

Watershed Word Search

Where Does Your Water Shed?

How Did That Get In My Watershed?

Watershed Word Search

Flowing In A Watershed

Use Water!

FOOD: ...
CLOTHING: ...
FUN: ...

Watershed Word Search

Where Does Your Water Shed?

How Did That Get In My Watershed?

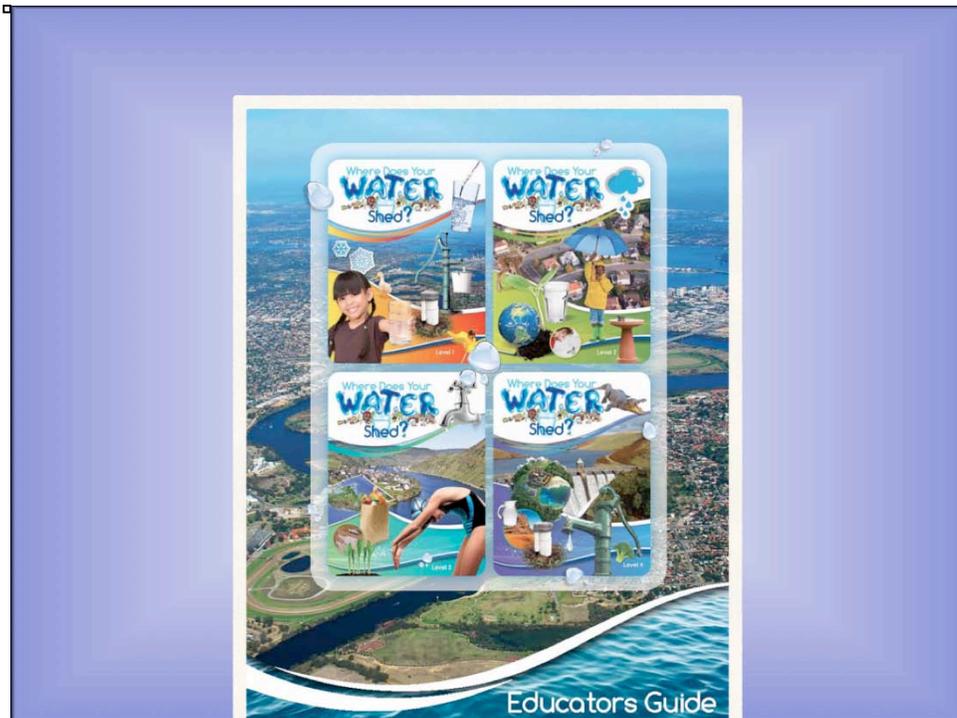
Watershed Word Search

Placemat Activity Sheet 0 Room for District label or stamp on front

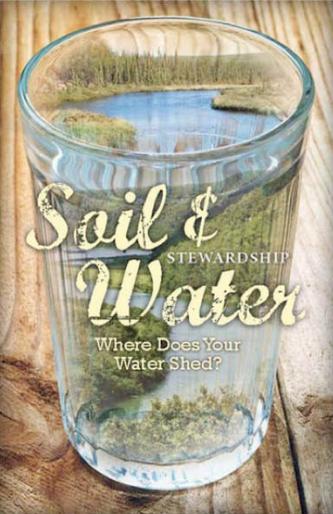


Sample Packet
1 of each student booklet
1 bookmark
1 activitysheet/placemat

Sample packet. 1 of each student booklet, 1 bookmark and 1 activity sheet/placemat
Available on NACD website at www.nacdnet.org



Educators guide. Available in print and on NACD website – Where does your water shed under stewardship and Education website.
<http://www.nacdnet.org/education/resources/water/water-shed>



Soil & Water STEWARDSHIP
Where Does Your Water Shed?

Did you know that you live in a watershed? Our actions, habits and decisions impact our watersheds. Every inch of the land on planet Earth is part of a watershed. You can define a watershed as "All of the water under or draining off of a particular watershed goes into the same place." They cross all state and international boundaries. There are 6,100 watersheds in the continental U.S. If we include Alaska, Hawaii and Puerto Rico, the count rises to 2,287 watersheds.

Your drinking water depends on the flow of the water through a watershed to a body of water or groundwater. Just think, water molecules you drink today could have also been used for a discount! The water cycle helps to recycle water every day. Some of the natural elements found in water sheds (like wetlands) also work to provide us clean water by filtering out pollutants. Healthy watersheds and clean water are vital to a healthy you.

In your community, you might have a watershed organization. These watershed groups send out newsletters by e-mailing to advise the water and record the data. They also help educate citizens about the importance of taking care of our water. Check with your local conservation district to see how you can become involved with a local watershed group.

Education programs can help raise awareness of easy steps citizens can take to protect the water in their community. For example, did you know that by cleaning your driveway with a broom instead of a hose, you can save water and help prevent pollutants from washing into storm drains? In many cities and towns, you may notice notices by their drains that read, "No. Gas, Grease, or Auto Oil to Storm or Lake." Leaves and grass clippings dumped into storm drains or a nearby body of water will decompose and take oxygen out of the water for fish and other creatures. If you have a pet, it is important to pick up if you waste so that it is not washed into near by bodies of water.

Each citizen can also take the responsibility for not littering. This keeps our water bodies clean and also benefits our ourselves. It is extremely important for everyone to properly dispose of trash. Take a look at a parking lot in your community, do you see oil and diesel? Where do you think it will go when it rains? It could be a mess by time it rains. Help educate your community about proper trash disposal and automobile maintenance.

Less than 1% of all of the water we use goes to fresh water. The average U.S. citizen uses 70 gallons of water every day. Just this does not include the water it takes to manufacture automobiles, clothing and food. We do spend and need fresh water every day. This has to be done about your local community water supply resources and resources for reuse, stream, or beach cleanups. You can make a difference!

To learn more about your watershed and information on an app for your smart phone, visit www.nacw.org. Additional mobile resource education materials can be found at www.nacw.org.

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Program insert

Soil & Water
STEWARDSHIP
Litany

Where Does Your Water Shed?

LEADER: LORD, you are the hope of Israel, all who forsake you will be put to shame. Those who turn away from you will be written in the dust because they have forsaken the LORD, the spring of living water. (Jeremiah 17:13)

CONGREGATION: But blessed is the one who trusts in the LORD, whose confidence is in him. They will be like a tree planted by the water that sends out its roots by the stream. It does not fear when hot comes, its leaves are always green. It has no worries in a year of drought and never fails to bear fruit. (Jeremiah 17:7-8)

LEADER: He seed is the one who does not walk in step with the wicked or stand in the way that sinners take or sit in the company of mockers, but whose delight is in the law of the LORD, and who meditates on his law day and night. (Psalm 1:1-2)

CONGREGATION: That person is like a tree planted by streams of water, which yields its fruit in season and whose leaf does not wither—whatever they do prospers. (Psalm 1:3)

LEADER: Jesus stood and said in a loud voice, "Let anyone who is thirsty come to me and drink. Whoever believes in me, as Scripture has said, rivers of living water will flow from within them." (John 7:37b-38)

For the Lamb at the center of the throne will be their shepherd, he will lead them to springs of living water. And God will wipe away every tear from their eyes. (Revelation 7:17)

Prepared by Oana DeMunn, Northern RI Conservation District Manager

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Litany



Program Blank



NACD Marketplace

www.nacdstore.org

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ORDER materials from NACD Marketplace
www.nacdstore.org
Education pages at
<http://www.nacdnet.org/education/resources/water/water-shed>

Planning your presentations

Did you ever think of giving an
assessment?
Before and After?

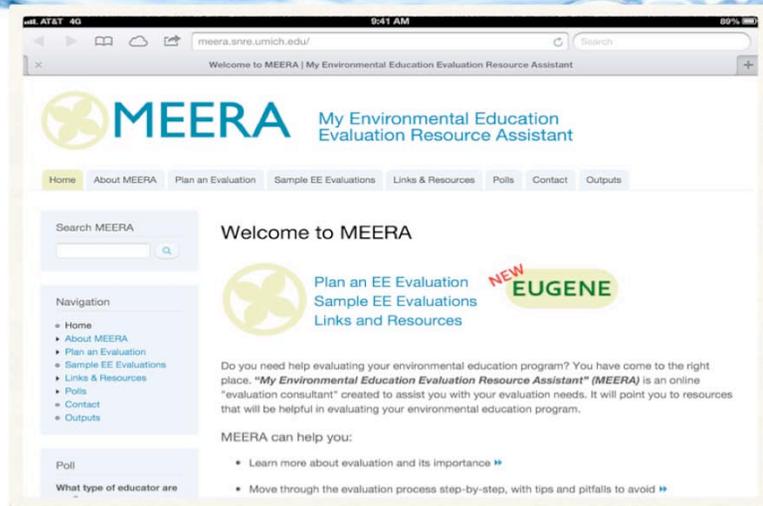
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Planning your presentations.

Good idea to assess your groups knowledge no matter what the age. Do a before and after assessment.

Simple 1 page 8 to 10 questions over the topics you will be discussing. Email Susan for sample susan-schultz@nacdnet.org

Pre & Post Assessments



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Great site to see how to do an evaluation <http://meera.snre.umich.edu>



Tell your story with an exhibit

Tell your story with an exhibit

County Fair



County Fair



Aquatic and Fishing Project – See Attachment for additional information – Deb Ruff, IL

Library



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Local Library. Used 2 big books and cut up to make photos for display.



Field Days

- Conservation Field Days
 - Youth and Adults
- Junior Naturalist Day
 - Earth Day
 - Arbor Day

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Field Day events, Conservation Field Days for Youth and Adults, Earth Day, Arbor Day, Stewardship Week

Community events

Putt Putt Event

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Putt Putt Event – Deb Ruff, IL

AG in the Classroom



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Ag In the Classroom at the state level training and at their national conference for great ideas. Here Deb is presenting at their water festival.
Deb Ruff, IL <http://www.agclassroom.org>

Recycle old milk jugs



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Example of a way to show how much water we use daily. Jugs light up for water used to flush toilets,, cook, bath, etc.

Recycle old milk jugs



Additional views of the exhibit made from milk jugs and amount of water people use each day.

Water Education Trailer



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Water education trailer with outside tent for teaching and walk through exhibits.

Watershed Puzzle



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Large Puzzle made from water shed map

Watershed Trailer



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Stream Table or Riparian Trailer very popular at events. Website links the the Where does your water shed? Educators Guide.

Watershed Park



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Watershed Park in IL at their state fair grounds
Deb Ruff, IL

Pathway to Water Quality



Pathway to Water Quality at the Indiana State Fair. http://iaswcd.org/district_tools/pwq/index.html

Activity – Early Lessons in Water History from Mrs. Alderson is from the Project WET guide called Conserve Water from the Project WET Store at www.projectwet.org

Version available at:

Pathway to Water Quality



Blue Traveler Activity from Project WET in the Watershed Managers Guide from the Project WET store. www.projectwet.org

It is available in a downloadable format.

This version has been modified from the dice to a spinner format. Blue Traveler is the natural water cycle and human impacts in to the water cycle.

Also project WET incredible journey is another good water cycle activity based on the natural water cycle.

http://www.nacdn.org/education/resources/water/pdfs/water_cycle_spinners.pdf for the spinners

And the blue traveler pictures for the cubes will be on the Where does your water shed? Site soon. <http://www.nacdn.org/education/resources/water/water-shed>

It is missing for the usual site that I link to.

H₂O BINGO



See attachment for activity from Deb Ruff, IL

Bethnic Bugs Water Quality Testing



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Great Activities in the Healthy Water Healthy People guide from project WET. Can be purchased in their store. Activity Bethnic Bugs using paper clips, rubber bands and other easy items to show how to sort and determine quality of water.

Macroinvertebrate	Represented by	Sample 1	Sample 2	Sample 3	Total
Mayflies	Yellow beads	35	15	0	50 beads
Stoneflies	Small paper clips	65	35	0	100 clips
Dobsonflies	Large paper clips	30	20	0	50 clips
Caddisflies	Red Beads	30	20	0	50 beads
Craneflies	White Beads	25	13	12	50 beads
Dragonflies	Green Beads	20	20	10	50 beads
Scuds	Black Beads	5	13	30	50 beads
Midges	Blue Beads	0	20	30	50 beads
Leeches	Thick Rubber Bands	0	15	35	50 beads
Pouch Snails	Pennies	0	15	35	50 pennies
Tubifex Worms	Thin Rubber Bands	0	15	35	50 bands

From Bethnic Bugs in the Healthy Water Healthy People Activity Guide

Speech and Essay Contests



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The Stewardship and education material theme is used for the poster as well as speech and essay contests.

Community Connection

1. Issues and eggs
2. Brown bag lunch events
3. Watershed groups
4. Hydrology jeopardy
5. PSA's

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1. Issues and eggs – Program in Livingston County SWCD in IL Deb Ruff – breakfast meetings that cover conservation topics
2. Brown bag lunch events – plan a brown bag lunch program at your local court house, local businesses about conservation topics.
3. Watershed groups – plan presentations for these groups
4. Hydrology jeopardy – Activity from Deb Ruff, Livingston SWCD, IL
5. PSA's Available on NACD website in the Where does your water shed? Page <http://www.nacdnet.org/education/resources/water/water-shed>

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