



TEACHER RESOURCES

This document has excellent resources for understanding and teaching watershed forestry. We have searched the web so you don't have to! For additions or corrections, please contact Tyler Van Fleet, East of Hudson Forestry Program Coordinator at education@nycwatershed.org.

Start with the Watershed Forestry ESSENTIALS for a collection of great resources that summarize the main themes of WAC's watershed forestry education programs, including watershed form and function, the NYC Watershed and water supply system, and the role of healthy forests in protecting water quality.

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WATERSHED FORESTRY ESSENTIALS

1) READING – NYC Watershed Forestry Blog Series

Source: *MyWoodlot.com*

Written for middle-school readers and up, this 3-part series of short blogs introduces readers to fundamental concepts of watersheds ([What is a Watershed & Why Should I Care](#)), the NYC Watershed ([The New York City Watershed Explained](#)) and watershed forests ([Woods Wash Water](#)).

2) READING – How New York City Gets Its Water

Source: *The New York Times*

Seven cartoons depict the amazing journey water travels from upstate watersheds to city faucets in this online Explainer. Consider dividing the content among student groups to help guide further research into our world-famous, forest-filtered water supply.

3) READING – Water and Forests: The Role Trees Play in Water Quality

Source: *Educational in Nature*

Written for upper elementary-school readers and up, this 6-page, full-color handout includes information on the water cycle, trees as water filters, how watersheds function, definitions of key terms, diagrams, and student activities.

4) MAP – Google Earth Tour of the NYC Watershed

Source: *Watershed Agricultural Council*

Take a virtual journey from New York City through the NYC Watershed using Google Earth. Zoom to different natural and built components of the world's largest surface water supply system and learn about its history, engineering, and how people and nature work together to deliver clean drinking water to 10 million New Yorkers while supporting upstate communities.

5) MAP – New York City's Water Story: From Mountain Top to Tap

Source: *NYC-DEP*

Under Education Topics, scroll down to "New York City's Water Story: From Mountain Top to Tap" to download this excellent educational map of NYC's upstate drinking water watershed and water supply system to understand the natural and human-made components of NYC's water story. Use the accompanying Resource Guide for Teachers and Water Cycle Presentation to support your instruction.

6) **STORY MAPS – NYC Water Virtual Tours**

Source: NYC-DEP Education Office

Use this collection of online “story maps” to explore New York City’s water resources from mountain top to tap with NYC DEP staff interviews, in the field footage, interactive maps, and historical images. This resource includes detailed information on the following topics, with their own classroom activities and resources: NYC Watershed, NYC Sewer System, Wastewater Treatment, Stormwater Resilience and New York Harbor.

7) **STORY MAP – The Model Forest Story Map**

Source: Watershed Agricultural Council

Discover how forests in the NYC Watershed protect water quality and provide other benefits through maps, images, video and text. This “story map” allows you to virtually visit 4 different Model Forest properties in the NYC Watershed that are managed as living classrooms to educate people about the connection between forests and NYC’s drinking water by demonstrating good forest stewardship, or the many ways people can responsibly use, enjoy and care for forests.

8) **STORY MAPS – NYC-H2O HUB Virtual Explorations of NYC’s Water Supply**

Source: NYC-H2O

The [NYC-H2O HUB](#) includes several interactive “story maps” that bring the operation and history of the NYC Watershed and water supply system to life through maps, images and text. The [Water Systems Overview](#) story map investigates where NYC’s water comes from while [Building NYC’s Water System](#) delves into the history of why and how the city looked upstate for a source of clean water. Also check out the [High Bridge and the Jerome Park Reservoir](#) story map for a deeper look into the history and engineering of the Croton System.

9) **VIDEO – Drink Your Trees: NYC Watershed Forestry Presentation**

Source: Watershed Agricultural Council

In this 28-min recorded Zoom presentation, Tyler Van Fleet from the Watershed Agricultural Council uses pictures, maps and inquiry to explain watersheds, the NYC Watershed, NYC water supply system, critical role of forests in filtering and protecting water quality, and how WAC works to keep water clean and communities thriving in the NYC Watershed.

10) VIDEO – Living City: A Billion Gallons a Day

Source: *The New York Times*

This 6-min video describes the NYC Watershed and water supply system through interviews, maps, historic photos, and beautiful video imagery. Topics include watershed history, engineering and technology, maintenance, and how NYC is renowned globally for its clean, forest-filtered urban water supply.

11) VIDEO – FreshwaterLIVE: A Distance Learning Adventure

Source: *US Forest Service*

Filmed in the Catskill Mountains in the NYC Watershed, the first 15 minutes of this video provides a thorough explanation of the NYC Watershed, including the importance of freshwater, watershed form and function, the role of trees in protecting water quality, and ways people can help take care of watersheds. More topics are explored in depth, including indicator species, waste water treatment, comparisons to other US watersheds, and more. Specific video clips can be viewed from the [FreshWaterLIVE Clips playlist](#) on YouTube. Find associated lesson plans on the [FreshWaterLIVE website](#).

12) VIDEO – Nature Works: To Clean Water

Source: *The Nature Conservancy*

In this 4-min video, learn what a watershed is and how the plants in a watershed work to filter water so it's clean enough to drink. This video explores how watersheds help people and nature. It also shows students building a water garden to demonstrate the filtering power of a watershed.

13) VIDEO – Forests: The Stuff of Life

Source: *The Nature Conservancy*

In this 4-min video, explore the beautiful forests of the northeastern U.S. and discover how forests keep water clean and plentiful for people and wildlife. Learn how healthy, well-managed forests can supply us with the forest products we depend on while also supporting clean water, air and wildlife habitat.

VIDEOS

1) YouTube Playlists for Watershed Forestry Education

Source: *Watershed Agricultural Council*

Browse our growing collection of short videos related to NYC watershed forestry themes. Videos are organized into the following playlists:

- What is a Watershed?
- NYC water supply system
- NYC watershed stewardship
- Forests & clean water
- Forest ecology & management
- Timber harvesting & wood products
- Urban forests & green infrastructure
- Water conservation
- Watershed careers
- Field Trips
- Water around the world

2) Deep Water: Building of NYC's Catskill Water System

Source: *Ashokan Center & Filmmaker Tobe Carey*

This 21-min video tells the story of the building of NYC's Catskill water supply system in the early 1900s. Historic photos and interviews reveals the technology, engineering, labor, ecology and human sacrifices that make up the historic and world-renowned NYC water supply system. This video has been edited specifically for students and educational audiences. The original, 45-min Deep Water film is available for [purchase here](#). Download the Deep Water Teacher's Guide [here](#).

3) Forest Fast Breaks

Source: *Dovetail Partners*

Choose from 17 different fun, factual, animated videos under 3 minutes each on a range of forestry topics, including: Water, Photosynthesis, Renewable Resources, Sustainability, Tree Biology, Urban Forests, Wood Products, Green Building, Forest Fire and more.

4) H2 Oh No!

Source: *Center for Urban Pedagogy (CUP)*

This 3-min animated video is about Combined Sewer Overflow. It tells the story of water flowing through the watershed, to the city, and into people's homes. A storm fills up the combined wastewater and sewer system, causing water pollution that is harmful to people and wildlife. Conservation strategies are explored to reduce the volume of water in the system, minimizing this pollution event.

PODCASTS

1) [Views from the Watershed \(2021\)](#)

Source: *WalkingtheWatershed.com*

In this 17-episode podcast series, embark on an audio-tour of 13 Catskill sites that tell the story of the past, present, and future of NYC's water supply in the Catskill region. The podcast explores the complicated and controversial relationship between the Catskills and NYC and features people who care for, live in, and manage the watershed including historians, a dairy farmer, an angler, a former DEP commissioner, a forester, a trail builder and more. For a deep dive into watershed forestry, check out episode 12: Rooted Systems.

2) [The Story Behind New York City's Water Supply \(2019\)](#)

Source: *WAMC Northeast Public Radio*

In this 35-min episode of A New York Minute in History, co-hosts Devin Lander and Don Wildman detail the early history of NYC's Croton water supply system. Topics include why the city had to seek a source of clean water outside of the city, how the system was engineered and financed, the workers who constructed the dams and aqueducts, and how water from the Croton Watershed saved New York City and allowed it to become the financial and cultural capital of the world.

3) [Water episode with Adam Bosch \(2019\)](#)

Source: *From Scratch with Michael Ruhlman*

In this Water-themed episode of his cooking podcast, cookbook author Michael Ruhlman explores the topic of water with one chef and one non-chef, Adam Bosch, former Director of Public Affairs with NYC-Department of Environmental Protection. Tune in from 19 minutes, to hear Adam explain the NYC water supply system. Topics include NYC water supply history (at 26min, travel inside the Old Croton Aqueduct with Sarah Kelsey, Friends of the Old Croton Aqueduct), water supply system maintenance, water treatment including chlorination and UV disinfection (35min), watershed farm management (39min), watershed security measures (41min), NYC water chemistry (42min), and the array of NYC-DEP workers who keep the water supply system functioning (45min).

4) [NYC Water: An Engineering Marvel \(2019\)](#)

Source: *Stuff You Should Know*

In this 51-min episode, hosts Josh Clark and Chuck Bryant have a meandering and light-hearted discussion about the history, engineering, operation and reputation of the NYC water supply system and NYC tap water.

5) [The Cost of Our Water \(2015\)](#)

Source: *WNYC Public Radio*

In this podcast series, WNYC reporters explore the NYC water supply system (from farms, streams and reservoirs to aqueducts, treatment facilities, and water towers) with a special focus on why water rates have been on the rise and the challenges that face the more than 150-year old system. Listen to the [full length 57-min The Cost of Our Water](#) podcast or choose from the following themed clips:

- [Your Water Comes from a Stream with No Name](#)
- [The Land NYC Doesn't Want to Build on](#)
- [Call the Mega-Plumbers: The World's Longest Pipe Needs Fixing](#)
- [You or Your Dishwasher, Who Uses Less Water?](#) (topic: water conservation)
- [Nearly 30 Years and \\$3.5 Billion Later, NYC Gets its First Filtration Plant](#)
- [Water Pressure: Why Your Shower Is an Affordable Housing Issue](#)
- [The Sound of Clean Water](#) (topic: UV disinfection plant)
- [Why You Shouldn't Flush Your Toilet During Rain Storms](#)
- [If New York's Water Is So Good, Do You Need a Brita?](#)

READINGS & HANDOUTS

1) [Working Trees for Water Quality](#)

Source: *National Agroforestry Center*

This 6-page, full-color handout about watershed management techniques includes information on how different human activities cause pollution in a watershed and ways to live, farm and build on the land to keep the water clean. Suitable for middle-high school readers.

2) [Healthy Watersheds Protection](#)

Source: *Environmental Protection Agency (EPA)*

This site offers great basic information on what is a watershed, what makes a watershed healthy, why people need healthy watersheds and how they can be protected. Check out the associated [Benefits of Healthy Watersheds](#) page from the EPA that addresses the ecological, economic, and physical and mental health benefits of healthy watersheds. Suitable for middle-high school readers.

3) [Collection of Scientific Articles about Water](#)

Source: *Natural Inquirer: A Middle School Science Education Journal*

Check out this page with links to all of the Natural Inquirer's water-related articles. These are great resources for addressing Common Core Standards and English Language Arts with your science explorations! Options available for Pre-K through high school readers.

4) [Northern Woodlands – Forest to Water Series](#)

Source: *Northern Woodlands Magazine*

This special series of articles and infographics explores the rich array of connections between forests and water, with a focus on community-based efforts to support watershed health and climate change resiliency. Projects in the Penobscot, Androscoggin, and Connecticut River basins are featured as well as infographics and articles like [Forest Trees: A Natural Water Filter](#), [Forest to Water: A Connected Landscape](#), and [Exploring the Intersection of Climate Change and Land-Use](#). Suitable for high school readers.

CURRICULA

1) Understanding NYC's Water Story – A Curriculum Guide for the Classroom

Source: NYC-DEP Education Office

This curriculum guide provides K-8 students and educators with thematic units about the NYC water cycle. Aligned with the NYS Science Learning Standards and Amplify Curriculum for K-8 students, the units are based in STEM concepts and humanities subjects designed to foster interdisciplinary, hands-on learning. Each unit includes broad learning objectives, a “What You Should Know” section to inform educators, and lessons packed with activities for diverse audiences and settings. The NYC-DEP Education Office also provides free education programs and resources to pre-K through college students and educators. Check out the DEP's Education's Office offerings, resources, and programs [here](#).

2) The Catskills: A Sense of Place (3-12th grades)

Source: The Catskills Center for Conservation and Development

This fantastic curriculum is made up of 6 modules divided into lessons that include engaging, place-based activities designed to help students explore and understand the natural and cultural dimensions of the Catskills and the NYC Watershed region. At the end of each module, find a glossary of key terms and resource list, including books, teaching materials, websites, people and places to visit.

1. Water Resources

- Introduction to Water
- Stream Watch
- Taking Care of Our Watershed
- New York City Watershed

2. Geography & Geology

- Introduction to Geology
- Introduction to Geography
- How do the Catskills Stand Out?
- Physical Geography of The Catskills

3. Ecosystems (This Module includes background information only. No activities)

- Biodiversity in the Catskills
- Organism Functions
- Ecosystem Functions
- Living in an Ecosystem

4. Human History (This Module includes background information only. No activities)

- Native People
- European Settlement
- Industry
- Hotels and Recreation

5. **Culture & Arts**

- Native Traditions
- Art and Literature of the Romantic Period
- Art Colonies
- Appreciating Folk Traditions
- Characteristics of Catskill Mountain Communities

6. **Sustainable Catskills**

- Sustainable Energy
- Sustainable Water Use
- Sustainable Agriculture and Forestry
- Sustainable Living and Shopping

3) **Nature Lab (K-12th grades)**

Source: *The Nature Conservancy*

The Nature Conservancy and its scientists have created Nature Lab to help students learn the science behind how nature works for us and how we can help keep it running strong. Nature is the fantastic factory that makes the building blocks of all our lives—food, drinking water, the stuff we own, and the air we breathe. Check out their [teaching guides](#) on the following themes: Protect Land and Water, Build Healthy Cities, Tackle Climate Change, and Provide Food and Water Sustainably. The following lessons relate directly to watershed forestry themes:

1. [Grades K-5](#): How Water Works in your Garden, How Dirt Works, Gardens as Living Systems
2. [Grades 6-8](#): How Natural Areas Filter Water, Seeing Wood for Trees: Sustainable Forestry
3. [Grades 9-12](#): Finding your Flow: Watersheds, Urban Runoff: Stormwater Management, Biomimicry: Water Security

4) **Watershed Academy: Online Training in Watershed Topics (9-12th grade & adult)**

Source: *United States Environmental Protection Agency (EPA)*

The Watershed Academy is the EPA's Distance Learning Program. The website offers a variety of self-paced training modules that offer a basic and broad introduction to watershed topics. The modules are organized by 7 themes and are appropriate for high school students or adult learners. Modules can be viewed online or downloaded as PDFs and contain excellent diagrams, pictures, definitions and examples of key terms.

1. Watershed Ecology
2. Watershed Change
3. Analysis and Planning
4. Management Practices
5. Community and Social Practices
6. Clean Water Act Foundations

5) **Project Learning Tree (K-12th grades)**

Source: Sustainable Forestry Initiative

Project Learning Tree (PLT) is an award-winning environmental education program designed for teachers and other educators, parents, and community leaders working with youth. Some resources are available for free, while others can be purchased or acquired by attending online or in-person trainings, such as WAC's [Watershed Forestry Institute for Teachers](#). Find out about other [Project PLT trainings](#) through the [New York State Department of Environmental Conservation](#).

6) **Project WET: Water Education for Teachers**

Source: Project WET Foundation

The mission of Project WET is to reach children, parents, educators and communities of the world with water education. Some resources are free and available online, others are available for sale, including Project WET's Foundations of Water Education, and other Educator Guides full of activities about watersheds, water quality, floods and water conservation, plus maps, posters and more. Attend WAC's [Watershed Forestry Institute for Teachers](#) to receive training and the guide. Find out about other [Project WET trainings](#) through the [New York State Department of Environmental Conservation](#).

ACTIVITIES & LESSONS

TOPIC: Water and Watersheds

1) Activity: Water Footprint Calculator

Source: *GRACE Communications Foundation*

Use this excellent online tool (also available in Spanish) to figure out how much water your household uses, including direct and virtual water use. This interactive questionnaire takes about 10 minutes to complete. The website has great background information on different types of water use (Water Footprints 101), water conservation tips, and educational resources like lesson plans for middle and high school levels, links to articles, research and careers related to water, and a video about water conservation for K-5 students.

2) Lesson: Crumple a Watershed

Source: *Trout in the Classroom*

Make a physical model of a watershed using paper, markers and a spray bottle. The lesson includes background reading, step-by-step instructions, and a student worksheet.

3) Discovering New York City's Water Supply System

Source: *NYC-DEP Education Office*

Students develop their systems thinking in this lesson that involves modelling the NYC water supply system by arranging and physically connecting cards that represent different natural and human-made elements. The interconnections between the water cycle and our human systems are explored as well as the design challenges associated with urban storm water and climate change. This lesson is part of the NYC-DEP's [Climate Change Education Module](#).

4) Discover Water

Source: *Project WET Water Education for Teacher*

This fun and interactive website helps students explore many aspects of water, including the water cycle, watersheds, and water conservation through games, videos, quizzes and more. In the "Explore Watersheds" activity, discover the natural features of a watershed and how different human activities impact it. Type in your zip code for information about your local watershed. Watch a video of kids making a model of a watershed, quiz your knowledge, get tips on how to take action, and design and print your own eco posters or Field Notebook pages for student reflection.

5) **Mapping Your Local Watershed**

Sources: US EPA, Geological Survey & USDA Forest Service

Type in your address on the following websites to access data about your local watersheds and waterways. [US EPA's How's My Waterway](#) provides information on water quality monitoring stations, swimming, eating fish, aquatic life, drinking water, and water quality protection. [US Geological Survey's WaterWatch](#) provides real-time streamflow data and historic flood and drought data. [US Forest Service's Forest to Faucets 2.0 Data Explorer](#) provides watershed summaries that help identify important watersheds for drinking water supply based on forest cover and assessed threats related to climate change and land use change.

6) **Model My Watershed – Runoff Simulation**

Source: WiKiWatershed

This interactive animated online tool allows students to explore the connection between land cover types and the water cycle. Students select different land-types, precipitation rates and soil types and observe varying effects on infiltration, run-off, and evapotranspiration.

7) **River Runner**

Source: Sam Learner

This excellent, highly visual tool provides students with the opportunity to see the journey of a single rain drop from where it falls on the land all the way to where it is discharged into the ocean. Students drop their rain drop anywhere on the map, including their own address, and watch its journey through the watershed unfold.

8) **Activity: The Watershed Game (online game)**

Source: Central Sierra Environmental Resource Center

In this interactive game, learn about different ways that humans impact their watershed and explore ways to help clean it up. When you click on different parts of the watershed map, you are presented with scenarios and asked to make choices about the best way to reduce environmental problems. Answer questions correctly to help clean-up the watershed!

9) **[Green Infrastructure Education Module](#)**

Source: NYC-DEP Education Office

Where does rainwater go? What happens to precipitation and runoff on NYC streets? How can we help understand and manage storm water runoff? Check out the DEP's [Green Infrastructure Education Module](#) to discover interactive, multi-disciplinary, STEM lessons and activities that introduce students and educators to New York City's hidden infrastructure and innovative green infrastructure techniques that help transport and manage our wastewater and storm water.

10) **[Drinking Water Activities for Students and Teachers](#)**

Source: Environmental Protection Agency (EPA)

This collection of activities for K-12th grades addresses topics like the water cycle, watersheds, groundwater, pollution sources, and water quality protection. You can also download Thirstin's Wacky Water Adventure Guide with simple, colorful graphics and games.

11) **[MyWoodlot.com Educator Starter Kits](#)**

Source: Watershed Agricultural Council

MyWoodlot.com helps you learn about and care for trees and woods. Check out the Educator Starter Kits for activities that will enhance your teaching in the classroom, schoolyard, art room, at camp or on a field trip. Activities include all the how-to info you need to complete them and are sorted into the following categories:

- a. [Stewardship Projects](#)
- b. [Learn About Nature](#)
- c. [Nature Arts and Crafts](#)
- d. [Maps](#)
- e. [Field Trips](#)

TOPIC: Plants and Forests

12) [iTree MyTree – A tool for assessing individual trees](#)

Source: *USDA Forest Service*

Enter data about a tree (e.g. the species, size, and location) and this online calculator gives a detailed breakdown of the tree's environmental benefits and financial savings provided, including carbon dioxide absorbed, air pollution removed and storm water absorbed.

13) [The NYC Street Tree Map](#)

Source: *NYC Department of Parks & Recreation*

This online interactive map brings New York City's urban forest to your fingertips. For the first time, you have access to information about every street tree in New York City. Learn about the trees that make up our city's urban forest, understand the benefits of trees for water, air and carbon sequestration and see calculations for the ecological benefits of city trees, mark trees as favorites and share them with your friends, and record and share all of your caretaking and tree stewardship activities.

14) [Virtual Forest Initiative](#)

Source: *Black Rock Forest Consortium*

Black Rock Forest Consortium and Columbia University developed this suite of web-based learning modules for undergraduates (topics: paleoecology, plant physiological ecology, and forest sampling methods) and for grades 8-12 (topics: water chemistry and mammals and habitats). Modules allow students to investigate real data sets and do online graphing, data analysis, and comparison.

15) [Tree Rings Simulations](#)

Source: *UCAR Center for Science Education*

This online simulation helps students understand what tree rings can tell us about climate conditions in the past. In the [Tree Ring Simulation – Dendrochronology](#), adjust moisture and temperature variables to affect tree ring growth and read articles about tree rings and climate.

16) [Parts-to-Whole: Terrific Trees \(Lesson Plan & Student Worksheet\)](#)

Source: *Taura McMeekin, P.S. 164*

In this lesson, students will act out the anatomy of a tree in order to understand the structure and function of the different parts of a tree. Try challenging students to summarize the different ways that water is used and transported by different tree parts. Connect these observations to watershed forestry, since it's the function of trees that filters and cleans the water in a watershed.

TOPIC: Trout

17) Trout in the Classroom Lesson Library

Source: *Trout in the Classroom*

Trout in the Classroom participants have uploaded their favorite lessons related to the Trout in the Classroom experience. They are sorted on the site by the following topics: STEM learning, Watershed Curriculum, Visual and Language Arts, and Field Days and Activities.

18) Stream Macroinvertebrate Identification

Source: *DCMO BOCES*

At Macroinvertebrates.org, explore the digital Atlas of Common Freshwater Macroinvertebrates of Eastern North America and zoom in on incredibly detailed images of organisms to learn about their anatomy, classification, pollution tolerance and more.

TOPIC: Field Trips and Virtual Tours _____

19) Explorable Places – Find Great Fieldtrips

Source: *Explorable Places for New York City teachers and parents*

Developed by a teacher, the Explorable Places website is designed to make finding high-quality, curriculum-boosting fieldtrips simple and easy. Search by subject, grade, activity, etc. or browse their interactive map. Check out their [blog series](#) for quick references to free, outdoor science, and short park fieldtrips, funding tips, and more.

20) Newtown Creek Wastewater Treatment Plant

Source: *NYC DEP*

Both the Visitor Center and the Waterfront Nature Walk at New York City's largest Wastewater Treatment Plant are open for school visits. This site provides instructions for booking your trips and links to associated teaching resources.

21) Water Ecology & Engineering Tours for NYC Schools

Source: *NYC-H2O*

NYC-H2O offers free walking tours of NYC's historic reservoirs in all 5 boroughs as well as virtual programming. Tour guides engage students in activities that explore NYC water, history, engineering and ecology. Fall and spring tours offered.

22) NYC-DEP's RecMapper

Source: *NYC DEP*

Use this online mapping tool to find protected NYC Watershed land that's open to the public for recreation activities like fishing, hiking, hunting, and more.

23) Take a Fieldtrip to the American Museum of Natural History to teach Watershed Forestry

Source: *Watershed Agricultural Council*

In January, 2015, teachers gathered at the American Museum of Natural History in NYC to develop teaching materials to help guide student discovery of watershed forestry themes in the museum's permanent exhibits. As you plan your visit to the museum (free for NYC students!), review these Exhibit Guides for ideas about high-engagement activities for your students to complete before, during and after the trip.

- [New York State Environment Exhibit](#)
- [North American Forests Exhibit](#)
- [Hall of Biodiversity Exhibit](#)
- [Hall of Planet Earth Exhibit](#)

WEBSITES

1) [NYC-DEP Environmental Education](#)

Source: *NYC-Department of Environmental Protection*

This website contains information about NYC-DEP school programs, resources, events, contests, fieldtrips and education modules on the NYC Water Supply System, Green Infrastructure in NYC, The NYC Sewer System, Sounds and Noise in NYC, and Climate Change and NYC.

2) [Watersheds, Flooding and Pollution](#)

Source: *National Oceanic and Atmospheric Administrations (NOAA)*

This rich website includes educational resources about watersheds for K-12th grade teachers. Check out the menu of resources in the left column. Resource categories include: 1. Multimedia; 2. Lessons & Activities; 3. Real World Data; 4. Background Information.

3) [USGS Water Science School website](#)

Source: *U.S. Geological Service*

This rich website offers information on many aspects of water, along with pictures, data, maps, and an interactive center where you can share opinions and test your water knowledge. Check out these watershed topics in particular: Surface Water, Groundwater, Water Quality and Water Use.

FUNDING SOURCES

1) Watershed Forestry Field Trip Program

Source: *Watershed Agricultural Council (WAC)*

Apply for funding to visit the NYC watershed. Choose from 1 of 4 field trip options, including trips to environmental education centers, trout releases, Trees for Tribes tree planting trips and custom adult professional learning trips. Also consider participating in WAC's Green Connections Program, which supports partnerships between upstate and downstate schools to explore collaboratively the waters, forests and people of the NYC Watershed.

2) Watershed Education Grants

Source: *Catskills Watershed Corporation*

The Catskills Watershed Corporation, in partnership with the NYC-DEP, provides Watershed Education Grants to schools, libraries, museums, vocational institutions and non-profit organizations in the West-of-Hudson (WOH) Watershed and in the five boroughs of New York City. The grants are targeted to Pre-Kindergarten-12th grade audiences and their teachers. Applications are accepted annually in the spring.

3) Connect Kids to Parks

Source: *NYS Department of Environmental Conservation*

Connect Kids is a field trip reimbursement grant program connecting New York school children with nature and NYS history. Connect Kids will refund schools for field trips to state and federal parks, forests, historic sites, fish hatcheries and outdoor recreation areas. Applications are due 4 weeks - 6 months before the planned trip and are accepted on a rolling basis.