

2019 Education Department Highlights

<https://stroudcenter.org/education>

<https://wikiwatershed.org>



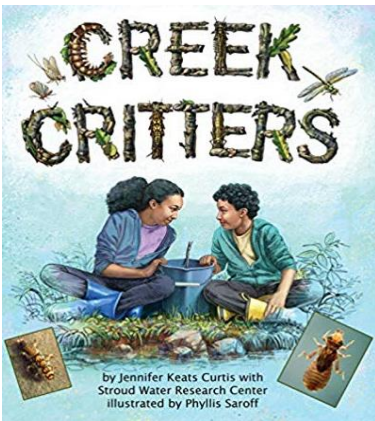
PROGRAMMATIC SUCCESSES

- Total # face-to-face impacts through programs, conferences, and trainings: **9,801**
 - **5,453** (56 %) youth and **723** adults (8 %) at K-12 Student Programs
 - **1,414** (14 %) at Training & Professional Development
 - **1,180** (12 %) at Community Engagement Events
 - **1,031** (10 %) at Conference & Event Presentations
- **84** onsite programs, **101** offsite programs
- **230** program contact days, **61** different schools and organizations
- Outreach in **10** U.S. states (CA, CO, PA, VA, KY, MO, MD, UT, DE, NJ) and **15** Pennsylvania counties
- **29** training and professional development workshops
- **18** presentations at professional conferences and events
- Hosted and instructed one week-long summer camp for the Chester County Council. Boy Scouts of America (CCCBSA) ScoutReach Program for underserved youth (**69** campers).
- Assisted with **2** week-long summer river treks and **7** summer camps: Coatesville Youth Initiative-Brandywine Trek, Schuylkill Headwaters Association-Schuylkill Acts & Impacts River Expedition, Tech GYRLS, University of Delaware Extension Service Cloverbud Camp, CCCBSA Special Needs Camporee, Coatesville Kids to College, and ScoutReach Day Camp.
- **11** different scout-related programs, with some programs spanning multiple days.
- Co-organized the first statewide biannual Pennsylvania Trout in the Classroom Summit (PA TIC) with the Pennsylvania Fish and Boat Commission and the Pennsylvania Council of Trout Unlimited
- Partnerships/schools/programs to note:
 - All West Chester Area School District's 4th graders (**10** schools; 900+ students) again during October plus we participated in the new fresh water ecology course for the District's three high schools while also planting over 240 trees with 300 6th grade students.
 - Professional development and training workshop partners: Chester County Intermediate Unit, Delaware Center for Horticulture, Delaware Department of Education, Earth Force, Longwood Gardens, Millersville University Watershed Education Training Institute (WETi), National Oceanic and Atmospheric Administration, Pennsylvania Council of Trout Unlimited, Pennsylvania Department of Education, Pennsylvania Department of Environmental Protection, Pennsylvania Fish and Boat Commission, Pennsylvania Master Watershed Stewards, Pennsylvania State Parks.
- Webinars: Continued to present WikiWatershed.org series. Completed new additions and re-design of Leaf Pack Network® Experiment Kit, including bi-lingual translations in Spanish and a new biotic index, database, manual, data sheets, sorting sheets, macro ID cards, and dichotomous key.
- **6** businesses donated through the PA EITC tax credit program to support public school education
- In collaboration with Arbordale Publishing, Kerlin, Muenz, and Nix assisted in the authorship of *Creek Critters*, a freshwater science picturebook for age 7-11!

GRANT PROJECT HIGHLIGHTS

- NSF sub-award with Carnegie Mellon University, "Learning to See, Seeing to Learn," launched the final version of the new website, delivering trainings and webinars across the nation.
- NOAA-funded PA Watershed Education Capacity-Building Task Force led multiple statewide workshops and Certified Meaningful Watershed Educational Experience (MWEE) Ambassador trainings for pre-service teachers, classroom teachers, non-formal educators, and school administrators.
- NSF Innovative Technology Experiences for Students and Teachers (ITEST) 3-year grant, called Watershed Awareness Using Technology and Environmental Research for Sustainability (WATERS), funds the Stroud Center and outside collaborative principal investigators at Millersville University and Concord Consortium. The project's 10-lesson curriculum includes resources from the WikiWatershed® Toolkit, such as Model My Watershed and the Water Quality Mobile App, and focus on Universal Design for Learning (UDL) features. Teacher training and curriculum implementation began with cohorts in PA, VA, and CA.

The education department includes 13 educators with >230 years of combined teaching experience!



EDUCATION PROGRAM FEEDBACK

The lab lesson was so hands on and the students were active participants with minimal direct instruction. It was really nice too because of the focus on discovery learning.

- Teacher, Starkweather Elementary



I wanted to thank you for sharing your expertise, love of the natural world, attention, time and patience, and for exposing the students to a wide variety of environmental issues and possibilities for positive change!

- Parent of summer trek student



Our students enjoyed collecting insects in the creek and then looking at them under the microscope. Many of them coming from an inner city school had never been in a creek before. One student mentioned to me how beautiful the sound of the water flowing over the rocks was, and they never thought that sound existed. They absolutely will never forget it!

- Teacher, Girard College



Schools we served in 2019 (new schools in bold)

Avon Grove Intermediate School, **Baynard Rustin H.S.**, **Canaan Christian Academy**, Coatesville H.S., **Conestoga Valley H.S.**, Devon Elementary, East Bradford Elementary, East Goshen Elementary, Exton Elementary, Fern Hill Elementary, Garden Spot H.S., **Girard College**, Glen Acres Elementary, Greenwood Elementary, **Henderson H.S.**, Hillsdale Elementary, Hopewell Elementary, Independence School, J.R. Masterman, Kennett H.S., Mary C. Howse Elementary, MOT Charter School, Newark H.S., Octorara H.S., **Nottingham Elementary**, Penn Wood Elementary, Pocopson Elementary School, Renaissance Charter School, **St. Catherine of Siena**, Starkweather Elementary, Tattnall School, **Transition Living Center**, Unionville H.S., Upland Country Day School, University of Pennsylvania, W.B. Saul H.S., Westtown-Thornbury Elementary and **West Chester East H.S.**

The education department was recognized as the Outstanding Environmental Education Program by the Pennsylvania Association of Environmental Educators in 2015. The WikiWatershed® Toolkit was awarded the 2017 Governor's Award for Excellence by the Pennsylvania Department of Environmental Protection.