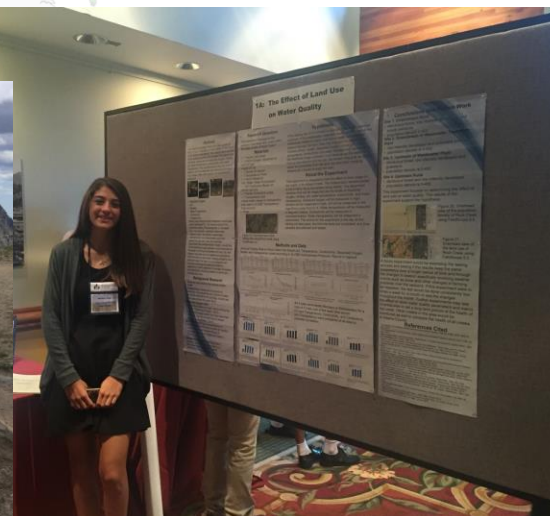
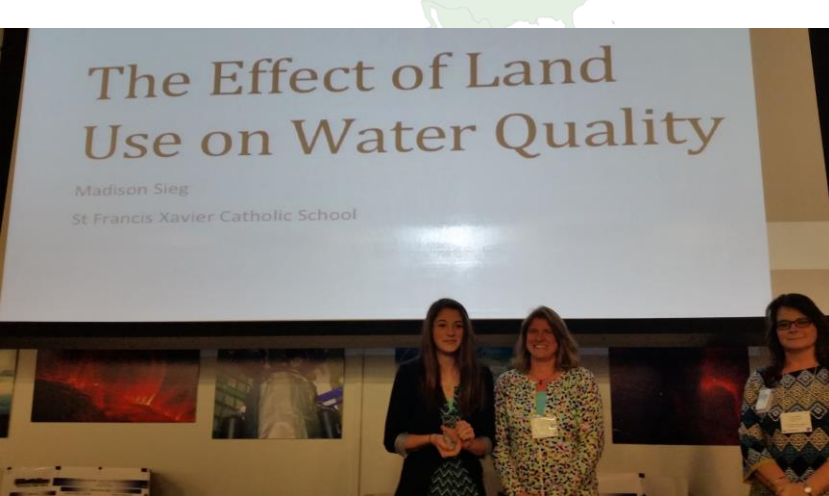


Maddie Sieg, 9th Grade, Delone Catholic High School McSherrystown, PA United States

- The Effect of Land Use on Water Quality
 - Last Year's Project (8th Grade, St. Francis Xavier Catholic School)
 - Won GLOBE NE Regional Science Symposium (5-8 category) and presented at Annual Meeting in Estes Park, CO

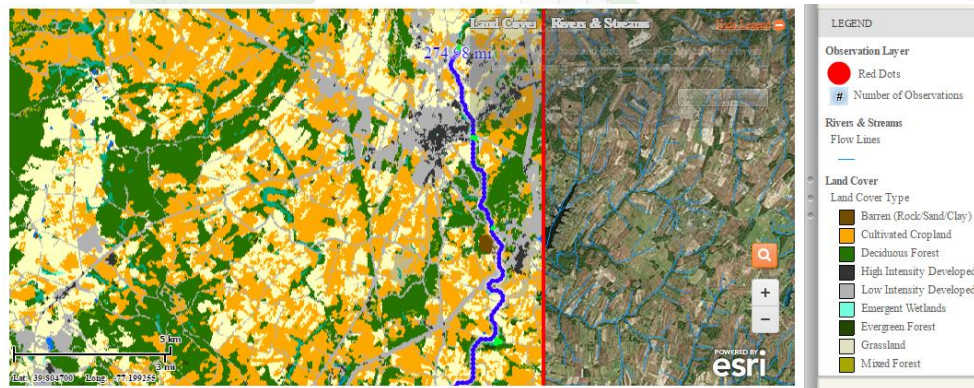
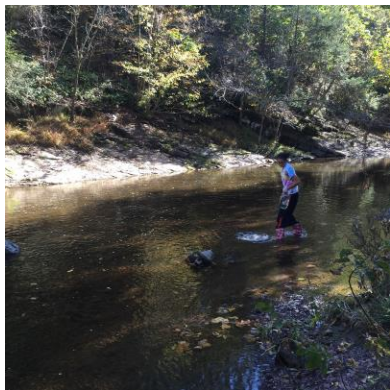


The Effect of Land Use on Water Quality

This experiment focuses on the question:

How does land usage affect the water quality of Rock Creek?

- This study was prompted by questioning the water quality of the local streams and whether or not they were contributing harmful water to the Chesapeake Bay. Land use was also evaluated to determine if questionable water quality levels were the result of runoff and/or industry pollution. It is important for all streams within the Chesapeake Bay watershed to be monitored and work towards contributing clean water to the Bay to help save the Bay and all its resources.

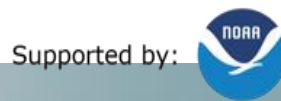
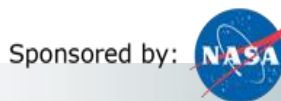



Advice to Students

- Pick a topic that you love or that you are very interested in so that it is not just a school project, because you will be spending lots of time with that project and improving it as you go along (there are *always* ways to improve on the project)
- Students should seek out teachers and mentor scientists right away when they have a question about something- don't wait too long!

Advice for Teachers and Mentors

- Doing a project this extensive requires a lot of expert mentors
 - Thanks to the support of NASA, GLOBE, Gettysburg College, Mrs. Bird with Advancing Science, and the teachers at St. Francis, I was able to have success with my first GLOBE project
- Teachers should frequently check in with students to monitor progress
 - Give ideas on how to improve, ask clarifying questions
- Mentor scientists can give background knowledge and experience ideas on the topic, which will help students refine their work as they go through their project



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