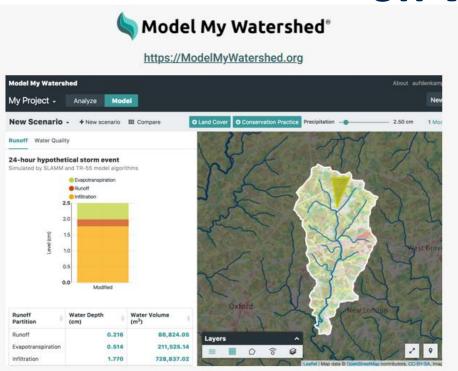
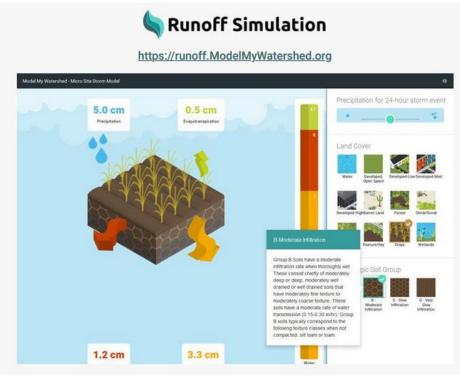


Workshop:

Mapping to Analyze Land Use Impacts on Water





Dr. Laura Cisneros, Assistant Extension Professor

Dept. of Natural Resources & the Environment







Conservation Ambassador Program

Week-Long Field Experience & Conservation Project

UConn Storrs Campus

Conservation Training Partnerships

Two-Day Workshop with Partner & Conservation Project

Locations throughout CT



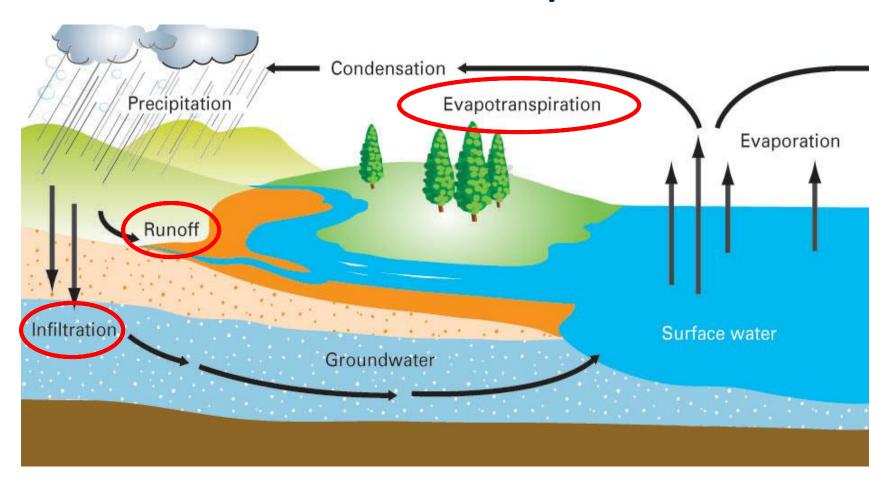
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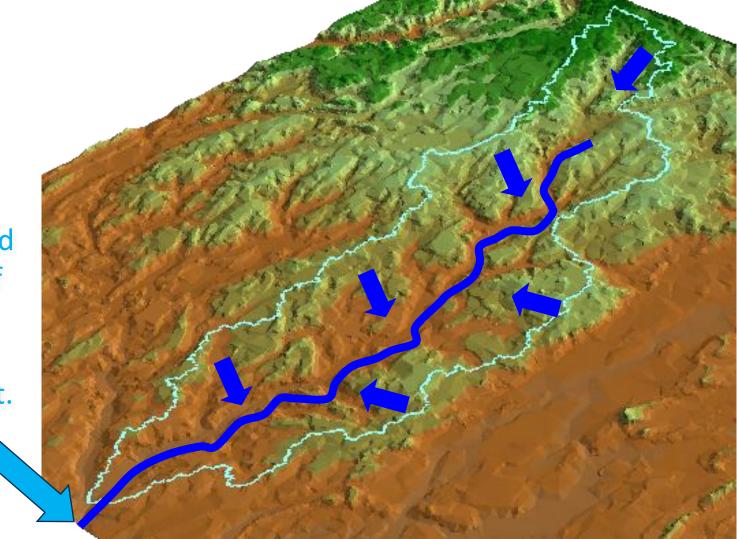


The Water Cycle





What is a Watershed?



A watershed is an area of land that drains to a single outlet.

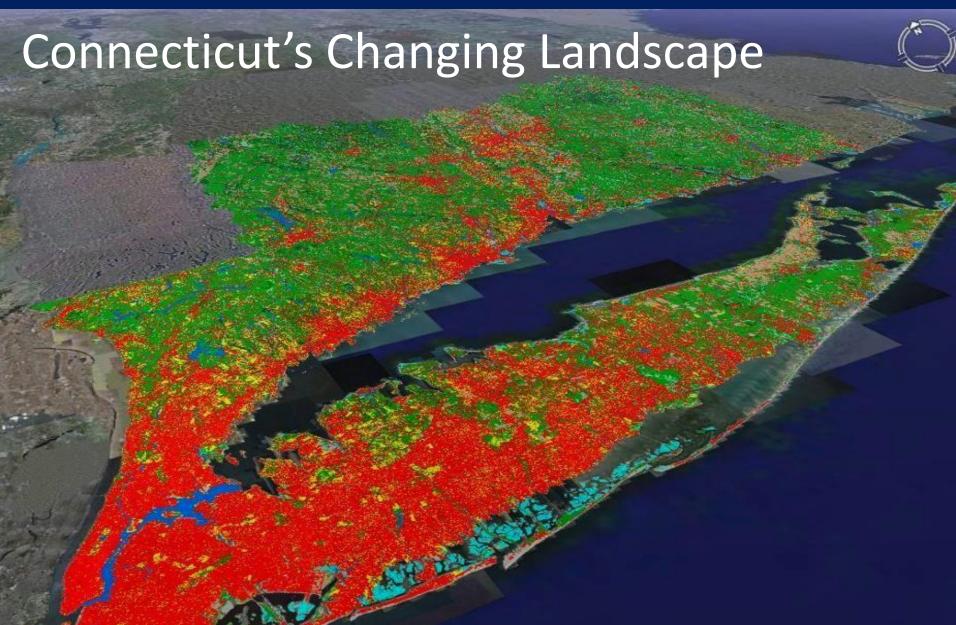


Current Challenges:

- "Nonpoint" pollution
- Runoff from agricultural and urban areas
- Difficult to identify and control

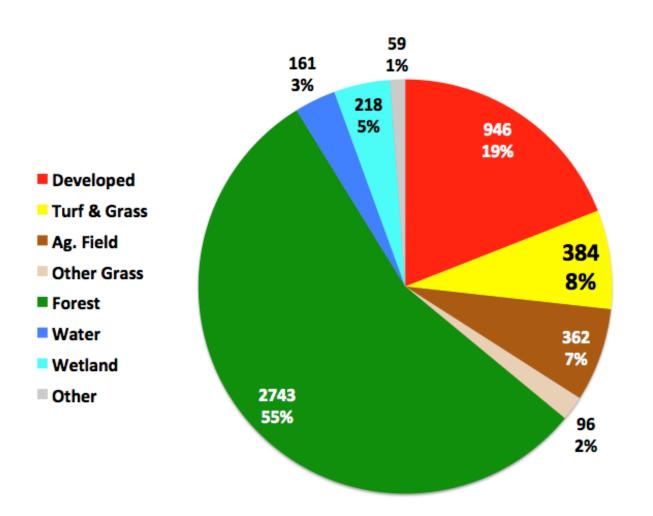


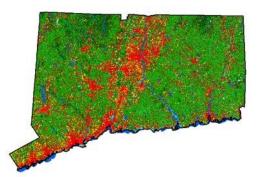




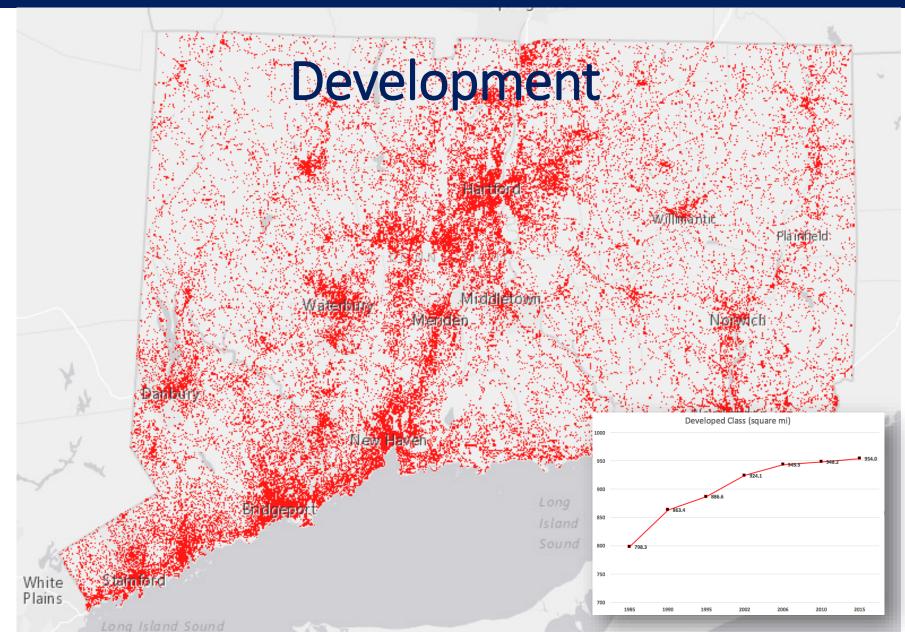


Land Cover Status: 2015

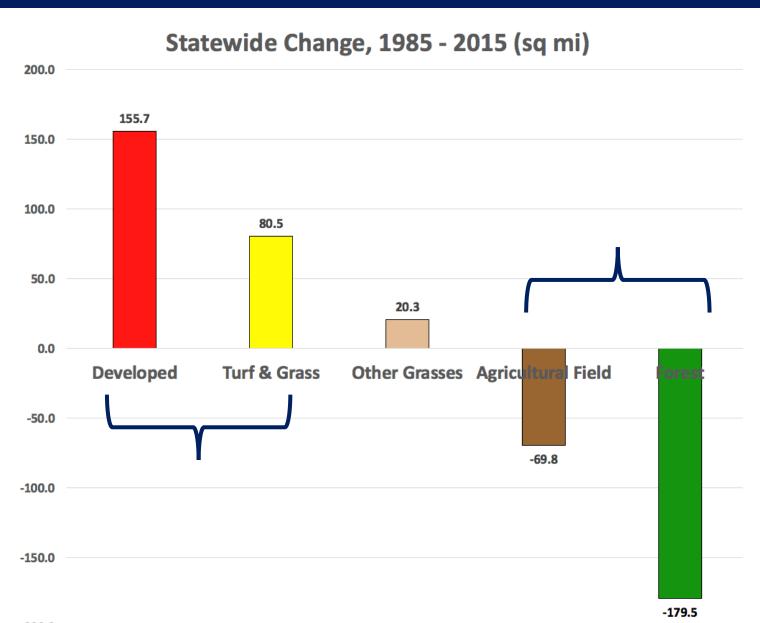
















Impervious Surfaces

Man-made hard surfaces that prevent percolation of rainfall into the ground.



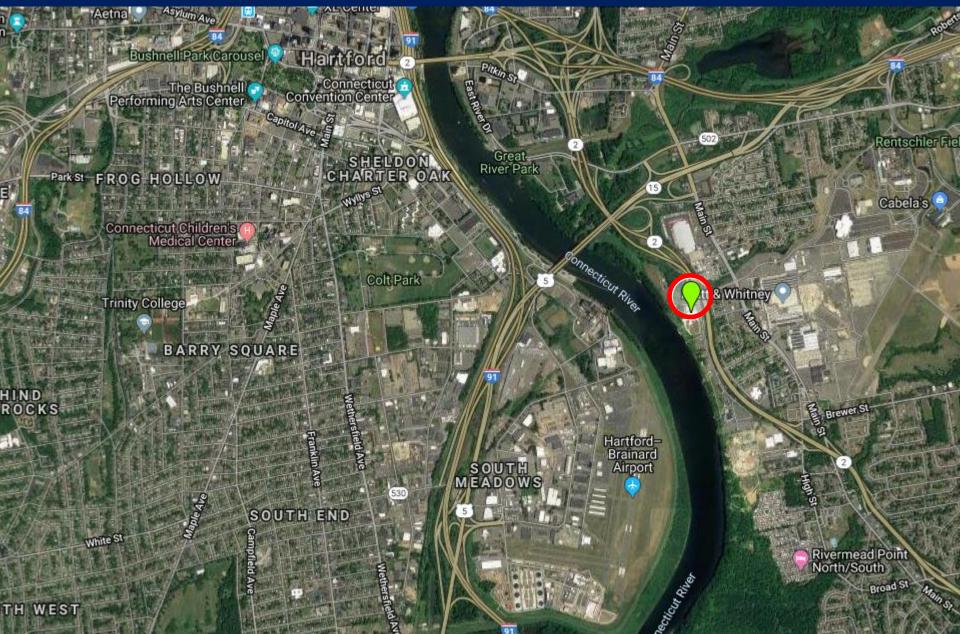


Water Quantity Impacts



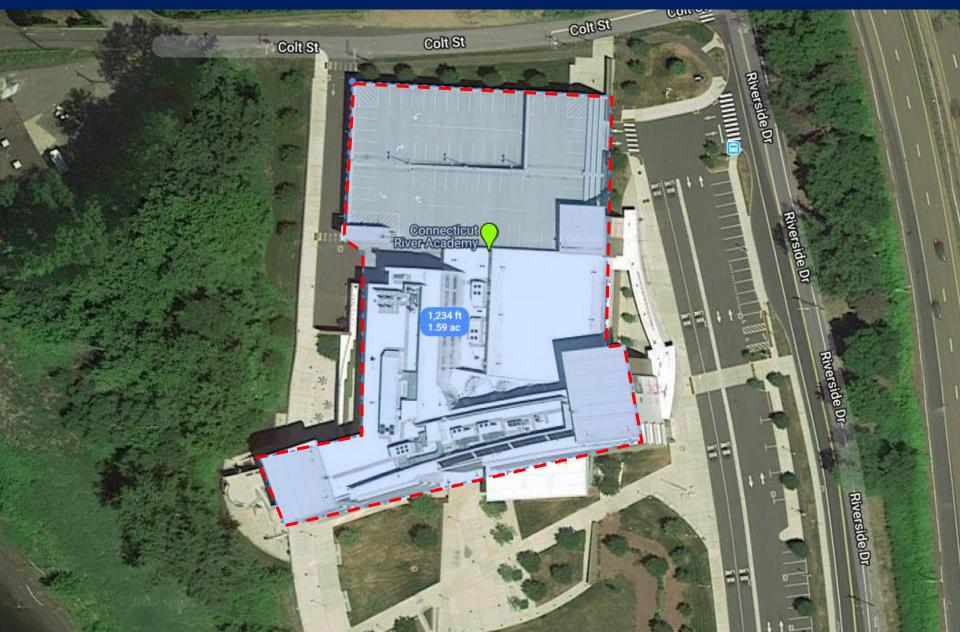


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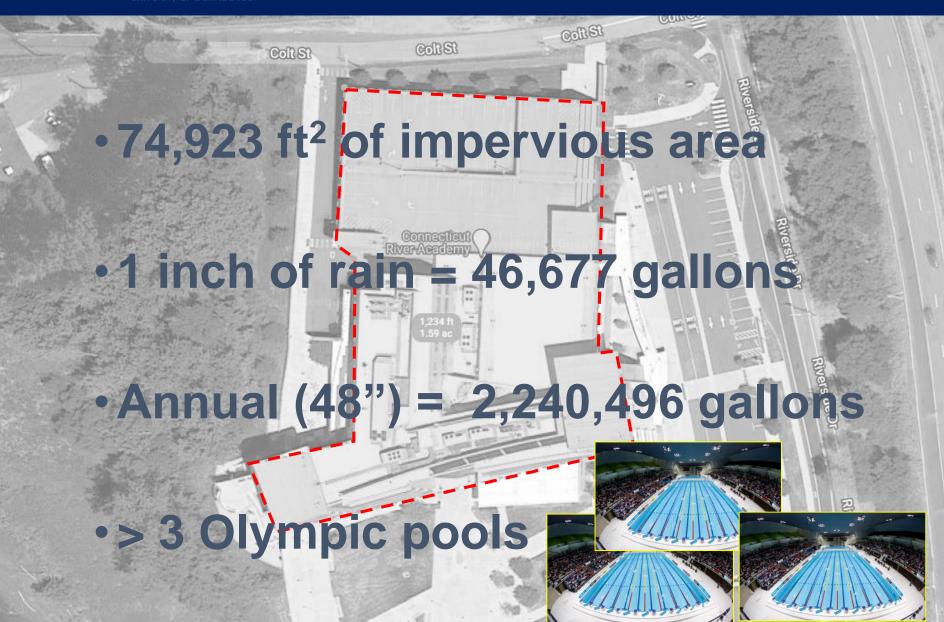














Water Quality Impacts





THE WATER TEMPORARILY DOES NOT MEET CURRENT HEALTH AND SAFETY STANDARDS FOR HUMAN CONTACT OR FISHING.

PATHOGENS

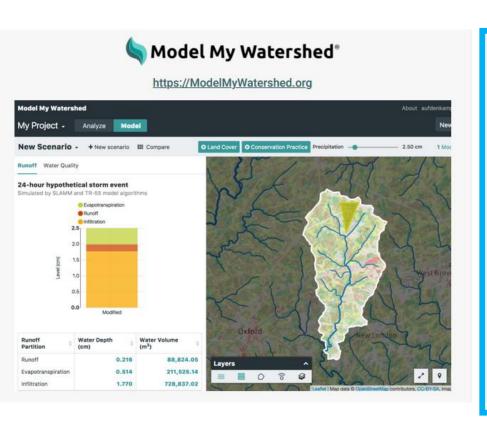


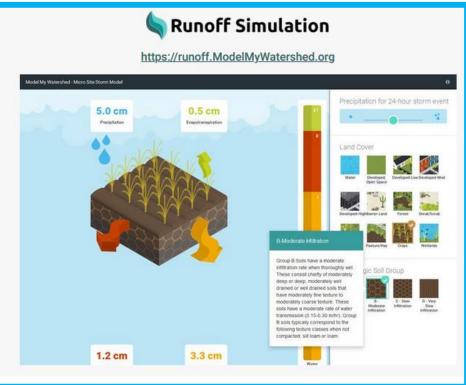




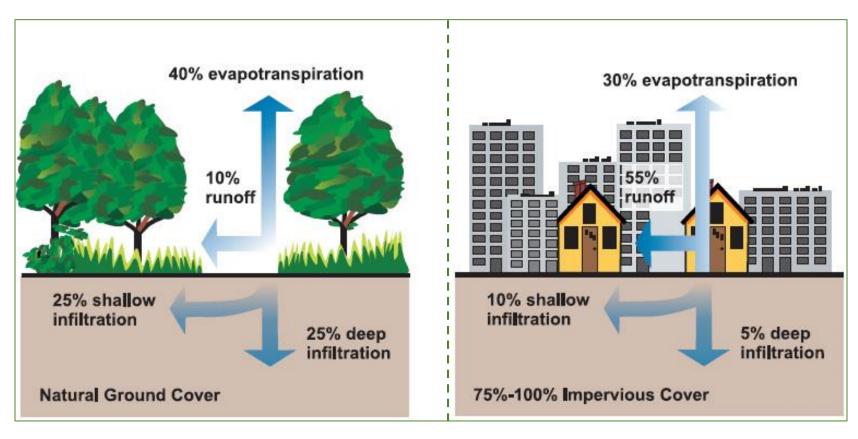


Mapping with Wikiwatershed









(EPA, 2003)



Low Impact Development (LID)

The goal: To preserve pre-development hydrology

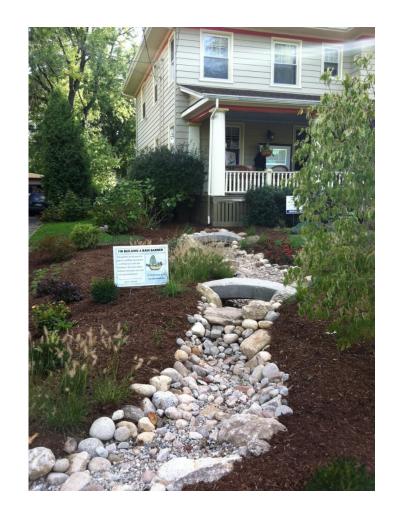
- Runoff volume and rate
- Groundwater recharge
- Stream baseflow
- Runoff water quality





Rain Gardens & Bioretention







Pervious Pavements







Green Roofs

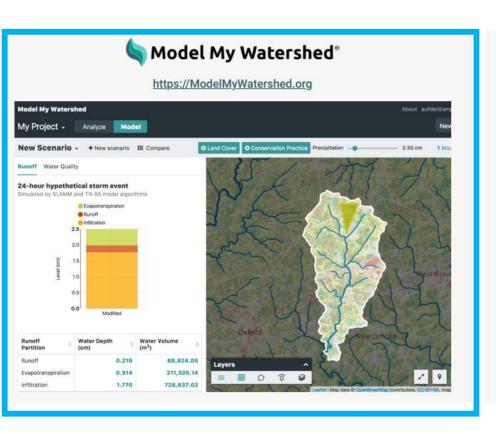


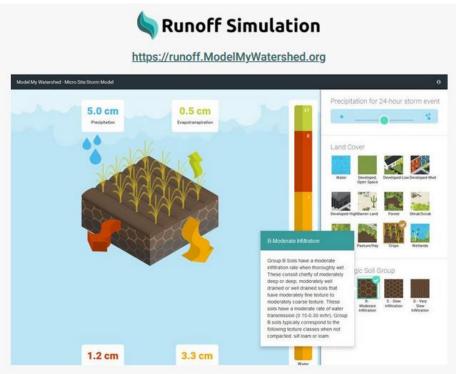


http://s.uconn.edu.virtualgsitour



Mapping with Wikiwatershed











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