

Franklin Residential Rain Garden Project

2014 Spring Training and Demonstration

Saturday, May 3rd, 2014

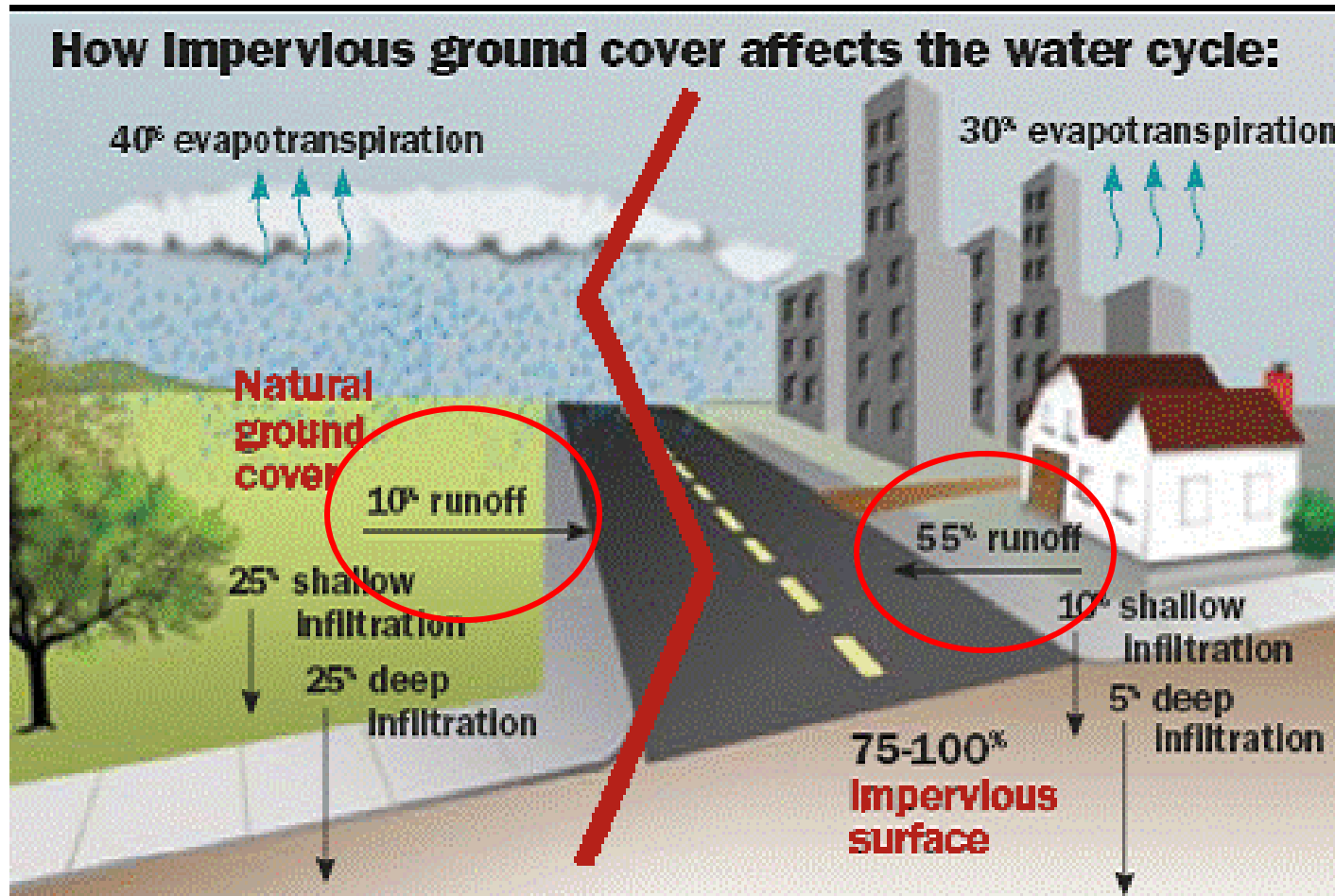


Impacts of Urbanization on Rivers

- Water quality
- Sediments
- Floods and low flows
- Groundwater
- Ecosystem and habitat
- Algal blooms



Impacts of Urbanization on Natural Water Cycle

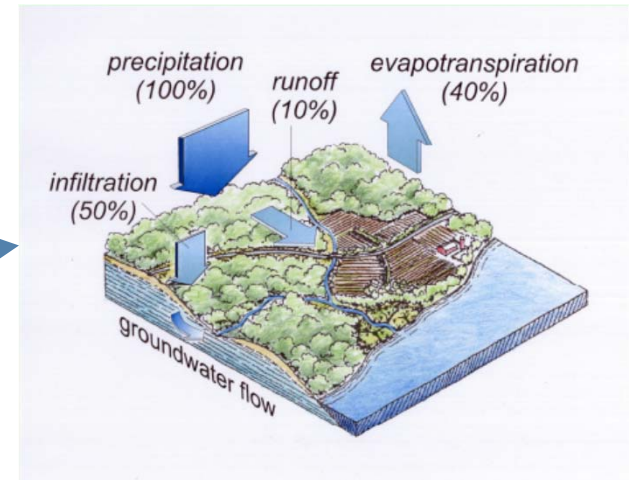


In Massachusetts, average annual *runoff increases* from 4.2" to 23" and groundwater *recharge decreases* from 21" to 6.3".

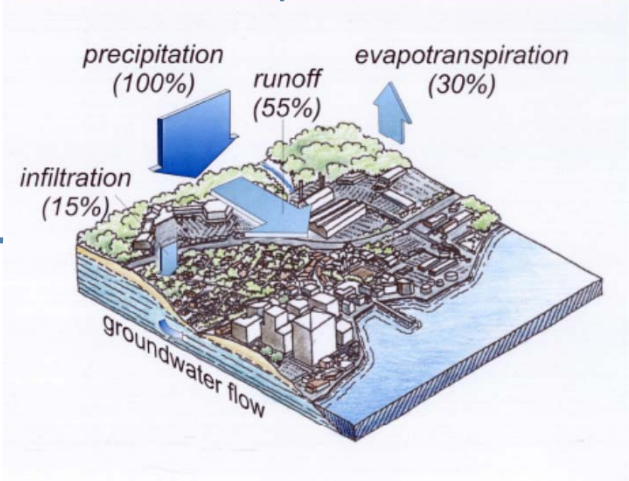
CRWA's Blue Cities Initiative

- Water centric planning and urban design
- Mimic natural water cycle and restore hydrologic integrity
- Retrofit sites to incorporate “green infrastructure”
- Build on links to open space, public health and public realm needs

Pre-development



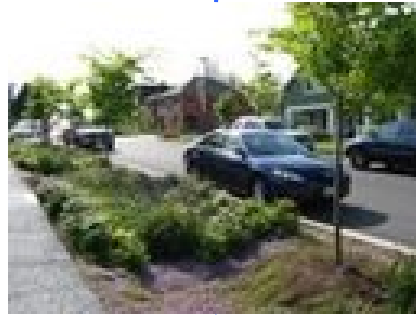
Post-development



CRWA's Blue Cities Initiative



Blue Cities is a water-oriented approach to urban development and redevelopment that promote designs for the built environment that engages with every stage of the water cycle. Going beyond “green” building, “blue cities” embraces green infrastructure design with the aim of restoring the natural water cycle in the built environment



Public realm/neighborhood scale approaches

- Green streets and Greenways
- Integrate stormwater management with existing open space
- Stream daylighting
- Regional retention and detention systems



Large site scale approaches

- Parking lot retrofits
- Courtyard retrofits
- Permeable pavement
- Constructed wetlands and other retention and detention systems



Residential/ small site scale approaches

- Rain gardens
- Cisterns/ rainbarrels
- Stormwater planters



Implementing Blue Cities

- Creating Partnerships
 - Engaging cities, towns, state, universities / institutions
 - Grassroots advocacy and work with community groups
- Public Education, Site Visits, Workshops
 - Public charettes and forums
 - Target audience workshops
 - Site visit to University of New Hampshire Stormwater Center
- Developing Sub-watershed Restoration Plans
 - Green infrastructure assessment and design in urban and sub-urban contexts
- Building Demonstration Projects
 - Green Street retrofits
 - Site scale retrofits



Franklin Residential Rain Garden Project

- Partnership
- Funding
- Goals



Franklin, MA

Welcome Residential Rain Garden Project See how Franklin is "Soaking It Up!" Water Conservation

Franklin Residential Rain Garden Project

Learn to build your own rain garden to prevent pollution

[Build a Rain Garden](#)

Franklin Residential Rain Garden Project

Welcome to Franklin's Residential Rain Garden Project. This website connects you with resources to build a rain garden in your own home that will help soak up the rain and prevent stormwater runoff from your property. The Residential Rain Garden Project is part of a larger commitment by the Town of Franklin to reduce stormwater runoff to the Charles River and associated pollution.

What is a Rain Garden?

A rain garden is designed to collect and treat rainwater running off from impervious surfaces including driveways, rooftops, and streets using soil and plant media. Rain gardens are planted with perennials and grasses that can withstand both wet and dry conditions.

[Rain Garden Training](#)

[Rain Garden Guide](#)

[Rain Garden Kit](#)

[Resources](#)

