The Evolution of Stormwater Regulations

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History

- A water rich state
- The Common Enemy Doctrine
- Early state laws drainage

Program Evolution Beginning in 1970s

- Overturning common enemy move to reasonableness standard
- Development of new regulations

Wetlands

Flood control

Runoff Management

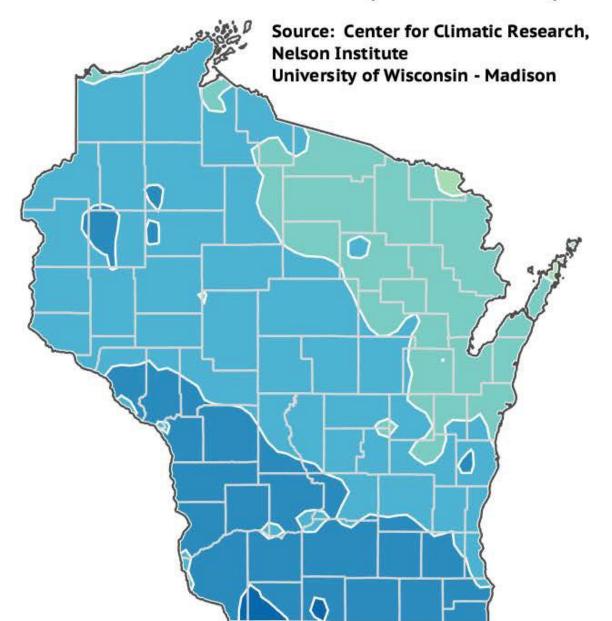
Navigable Water and Dam Regulations

Pollution Control

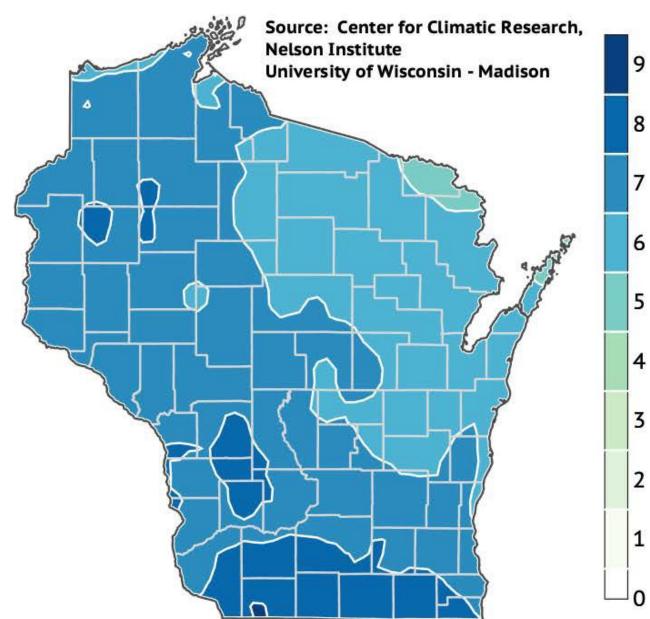
Emerging Challenges

- Climate change is producing storms with increased frequency and intensity.
- We have increased urbanization.
- Demands related to both stormwater quality and quantity.

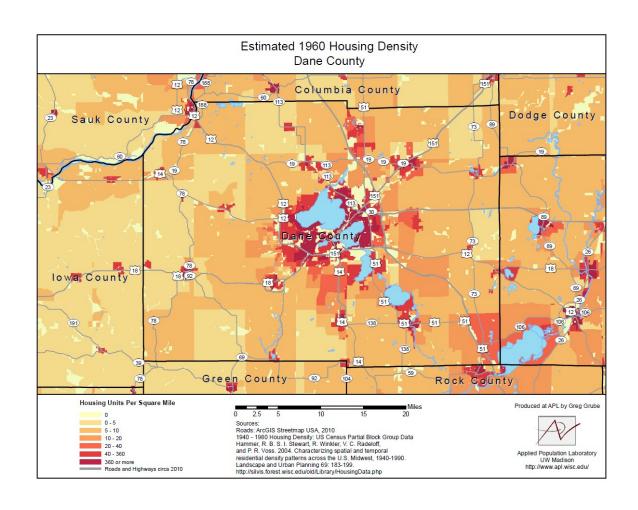
Days per Year with PRCPDays > 1in 1981-2010 Conditions (HISTORICAL)

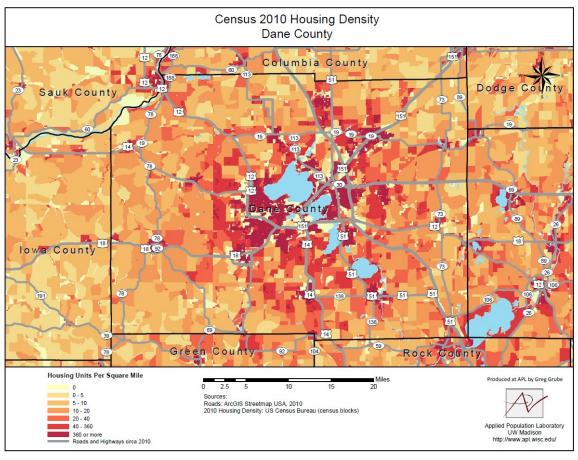


Days per Year with PRCPDays > 1in 2041-2060 Conditions (RCP45)



Housing Density



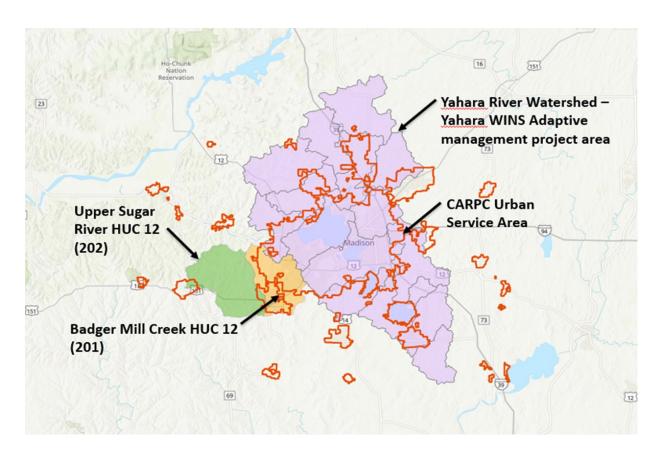


Limitations of Current Programs

- Programs remain largely discrete and uncoordinated, mostly reacting to site-specific problems.
- Programs fail to acknowledge water resources function in complex relationships to the land and to each other across watersheds.

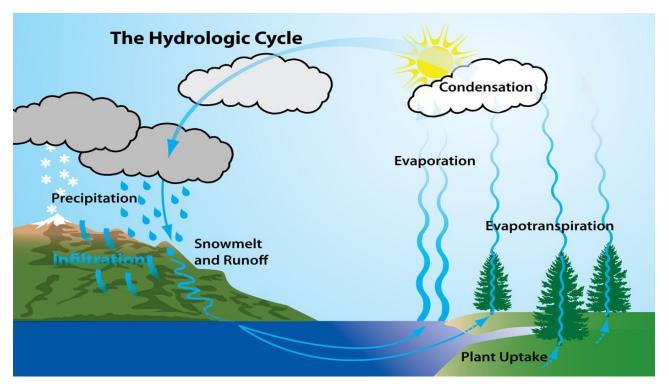
Watershed Basics

 Watersheds or drainage basins are land areas that drain into waters – lakes, streams, wetlands



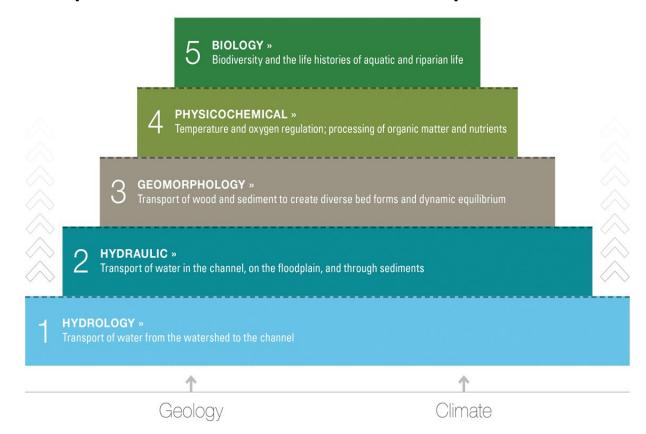
Watershed Basics

 Hydrogeologic cycle – water flows across land and into ground and is discharged to surface water



Watershed Basics

Stream Function Pyramid
Primary relationship flow from bottom to top



Change in Perspective

- We need to shift from relying wholly on engineered infrastructure focused on treatment or containment, to incorporating more hydrology focused practices designed to restore functions;
- From projects designed for a single purpose, to projects that can provide multiple watershed benefits; and
- From policies focused on preventing harm, to policies that incentivize restoring health

Use Existing Regulatory Flexibility

- Wetlands: "The net positive or negative environmental impact of the proposed project." And "Practicable alternatives"
- Stormwater "Maximum Extent Practicable

Recognize the Need for Coordination

- Coordinate programs within DNR and between agencies
- Recognize unique role of local government

Align Funding and Non-regulatory Approaches

Conclusion