Resources

- **Fact Sheet: Legal Tools for Climate Resilient Siting** *Environmental Law Institute*
  Suggests legal strategies for implementing climate resilient green infrastructure in Virginia and Maryland.
- **Stormwater Management in Response to Climate Change Impacts: Lessons from the Chesapeake Bay and Great Lakes Regions**
  Environmental Protection Agency - A report on strategies and tools to incorporate climate resiliency into community planning.
- **Flood Resilience Guide: A basic guide to water and wastewater utilities** *Environmental Protection Agency*
  The guide includes videos and flood maps to help protect small to medium water and wastewater utilities from flooding.
- **DC Climate Projections and Stormwater Applications** *DC Department of Energy and Environment*
  A presentation showing how DC heat index, heat wave, and precipitation projections will influence design storm events.
- **Climate Change Preparedness in New Jersey: Best Practices for Watershed Management** *NJ Climate Adaptation Alliance*
  A list of techniques and BMPs to help local governments adapt to future changes in climate.
- **Managing Water Quality in the Face of Uncertainty** *RAND Corporation*
  A report describing how to use Robust Decision Making (RDM) when managing future uncertainties such as climate change.
- **Building Resilience through Habitat Restoration** *MD DNR Chesapeake and Coastal Service*
  Recommendations on how to incorporate climate change consideration into the restoration decision-making process in Maryland.
- **Implementation of BMP Strategies for Adaptation to Climate Change and Land Use in a Pasture-Dominated Watershed** *Chiang et al.*
  Paper predicts the impact of climate change on 171 pastural BMP combinations and recommends those that are the most resilient.
- **Estimation of BMP Impact on Chesapeake Bay Program Management Strategies** *Tetra Tech*
  The report scores BMPs based on their ability to positively impact the Chesapeake Bay Program's management strategies.
- **Using Cover Crops to Mitigate and Adapt to Climate Change** *Kaye, Jason P. and Miguel Quemada*
  Paper supports the finding that cover crops help mitigate climate change and provides a cover crop case study in Pennsylvania.
- **Robust Stormwater Management in the Pittsburgh Region: a pilot study** *Fischbach et al.*
  The report offers an improved decision making framework as a strategy for better stormwater management in Pittsburgh.
- **National Climate Assessment** *U.S. Global Change Research Program*
  An interactive, online report reviewing the impact of climate change on the United States, with detailed regional information.
- **Sustaining Forests in a Changing Environment** *Forest Service* – Resources on managing forests in the face of climate change.
- **USDA Climate Hubs** - A regional collection of resources for farm and forest managers to make climate informed decisions.

Tools

- **Storm Water Management Model with Climate Assessment Tool (SWMM-CAT)**
  SWMM models stormwater runoff and incorporate green infrastructure BMPs. CAT adds future climate scenarios to the model.
- **Better Assessment Science Integrating point & Non-point Sources with Climate Assessment Tool (BASINS CAT)**
  BASINS CAT combines GIS, national watershed data, and watershed modeling tools to model potential climate change scenarios.
- **Creating Resilient Water Utilities (CRWU)** - Tools to help make drinking water, wastewater, and stormwater utilities more resilient.
- **Adaption Case Study and Information Exchange -** A database of resources on creating a workshop on climate change and extreme events adaptation.
- **Climate Resilience Evaluation and Awareness Tool (CREAT) -** Current and long-term weather conditions within the risk assessment tool help utilities plan for extreme weather events.
- **National Stormwater Calculator**
  The calculator uses a selection of low impact development controls to estimate local area annual rainwater and runoff frequency.
- **Tools for Water Related Climate Change Adaptation** *EPA Climate Change Adaptation Resource Center*
  A database of climate change adaptation tools for communities on water utilities, water quality, and ecosystem protection.
- **Assessment of Agricultural BMPs Using Models: Current Issues and Future Perspectives** *Hui Xie, Lei Chen and Zhenyao Shen*
  The paper suggests model strategies, such as simplified tools and climate integration, to better represent agricultural BMPs.
- **Assessing the Effects of Climate Change on Water Quantity and Quality in an Urban Watershed** *Alamdari et al.*
  A calibrated stormwater model was used to simulate climate change impacts on Difficult Run in Fairfax, Virginia.
- **Agricultural Policy/Environmental eXtender Model (APEX)** *Texas A&M*
  A watershed simulation model with climate change capabilities, including assessing increased CO_2 impacts on crop yields.
- **Coastal Flood Exposure Mapper** *NOAA Office for Coastal Management*
  A collection of visualization tools and maps that can be shared with stakeholders to communicate coastal flood hazards.
- **Climate Resilience Toolkit** – A large compilation of tools, resources, data, and case studies to help increase understanding of how to address climate risks across many sectors: agriculture, coastal, health, ecosystems, energy, built-environment, etc.