

Climate Change and the 303(d) Program

May 31, 2022

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Assessment and Listing

TMDL Prioritization

TMDL Development and Implementation

Climate Change and 303(d) Activities to-date

- National 303(d) Training Workshop sessions
- Climate Focus Area in the draft 303(d) Program Vision document
- Development of paper/memo/resource on considering climate change impacts in TMDLs
- Climate Change and 303(d) Stakeholder Meeting (April 2022)
- ELI Climate Change Compendium (in development)



Assessment & Listing: Integrated Reporting Memos

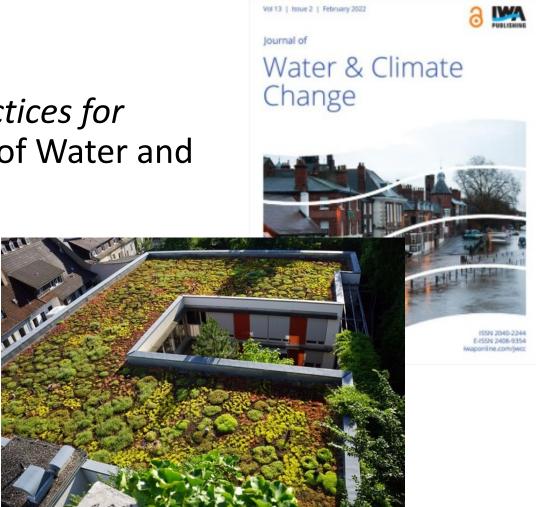
- Considering climate change in TMDL prioritization
- Various ways climate change may impact pollutant loadings

TMDL Implementation

 A Review of Climate Change Effects on Practices for Mitigating Water Quality Impacts, Journal of Water and Climate Change

Urban, Agriculture, Forestry

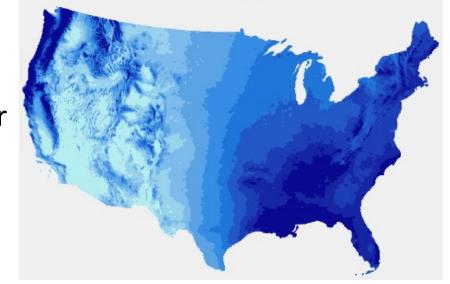
- 1) Climate change sensitivity
- 2) Adaptability



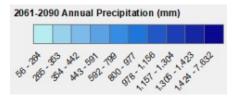
TMDL Prioritization: Watershed Index Online & New Climate-related Indicators

 National library of over 400 watershed indicators used for comparing watershed characteristics anywhere in the conterminous United States

■ In 2021, WSIO was updated with indicators focused on climate change

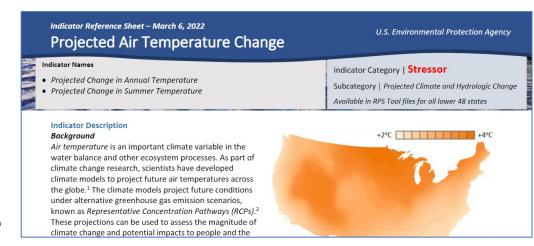


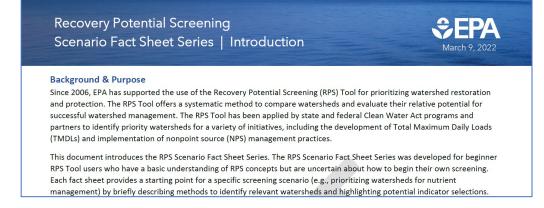
Climate	Hydrology	Sea Level Rise (SLR)
 Projected Change in: Annual Precipitation Summer Precipitation Annual Air Temperature Summer Air Temperature 	 Projected Change in: Annual Runoff Spring Runoff March Snow Water Equivalence (SWE) Annual Evaporative Deficit 	 Projected Change in Inundated Area Due to: 2-Foot SLR 10-Foot SLR 100-Year Flood Zone Hurricane Storm Surge Zone



TMDL Prioritization: Recovery Potential Screening (RPS) Tool

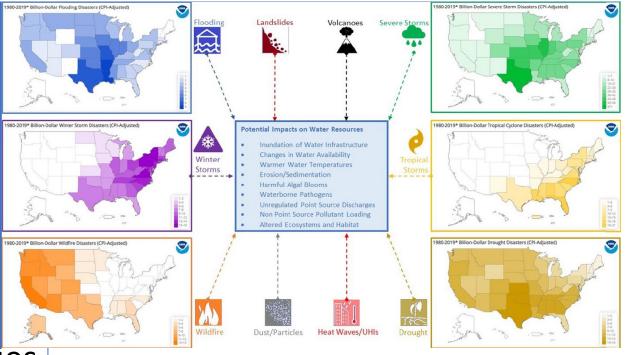
- Systematic method and Excel-based tool for comparing watersheds based on characteristics relevant to priority-setting
- New WSIO indicators can be readily applied using the RPS Tool – users can incorporate climate change considerations when comparing watersheds
- New resources
 - Recently released a series of indicator reference sheets
 - Developing RPS scenario factsheets





TMDL Implementation

- Hazard mitigation and water quality management
- Connecting staff and identifying synergies
- Modules forthcoming





Thank You