
RECAP OF THE JOINT MEETING OF THE USWG AND CRWG

PRESENTATION FOR THE WQGIT
OCTOBER 26, 2021



AGENDA AND OBJECTIVES

Goals:

- Get general partner endorsement of the completed work
- Round up some top research recommendations for CRWG
- Gather feedback on priority next steps/recommendations for partners

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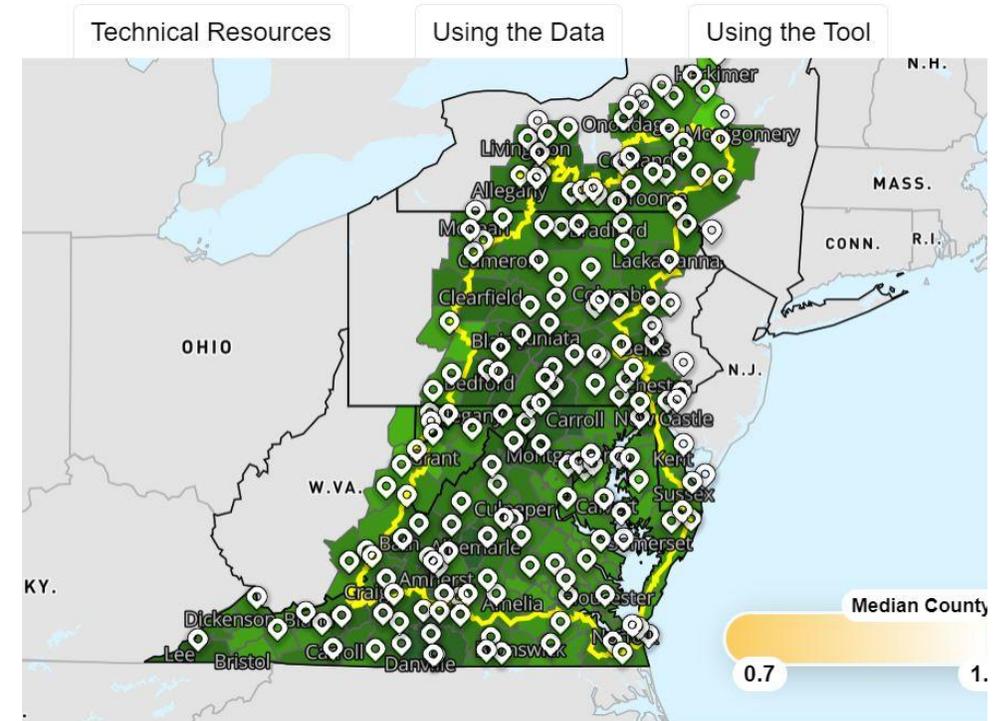
“Looking Back”

- Virginia Tech Synthesis of Climate Impacts on BMPs
- CSN Reports on Stormwater BMP Vulnerability Analysis
- RAND and Tetra Tech Climate Change-Informed IDF Curves

“Looking Ahead”

- Resilient Stream Restoration Design Considerations
- Resilient Stormwater BMP Design
- Case Studies and Next Steps for Implementing Resilient Design Principles
- Floodplain Management and Climate Change

Projected Intensity-Duration-Frequency (IDF) Curve Data
Tool for the Chesapeake Bay Watershed and Virginia



CAVEAT...

This is David's recap of the meeting last week... we are still collecting feedback and more formal recommendations will be forthcoming.



KEY THEMES

- Both research and implementation support are needed in spades
- They can be advanced simultaneously, but prioritizing actionable tools for local partners should be the goal
- Buy-in from state-agency partners and subsequent communication with their locals is critical
- Need to think about best ways to package tools to aid their “adoptability”
- Still seeking feedback on specific priority initiatives

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“Well, you finally did it Davis, you came up with a milk carton that nobody can open.”

SOME HEADLINES

Catastrophic Failure

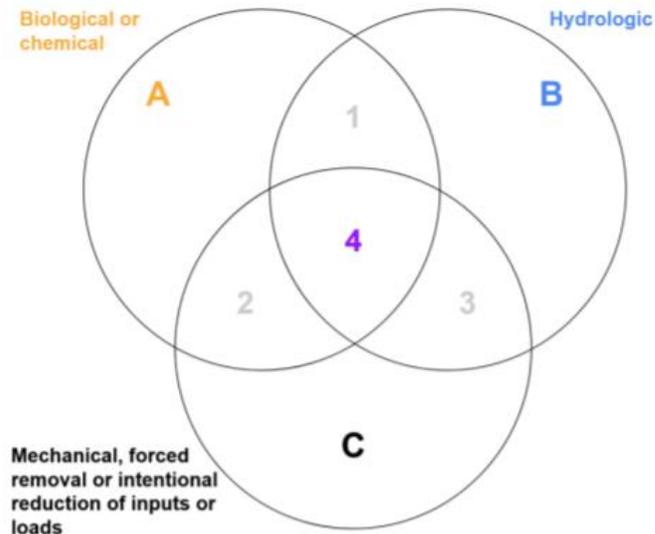
Structural Failure

Water Quality
Performance
Failure

Water Quantity
Performance
Failure

Diminishing Performance

Anticipated Failure



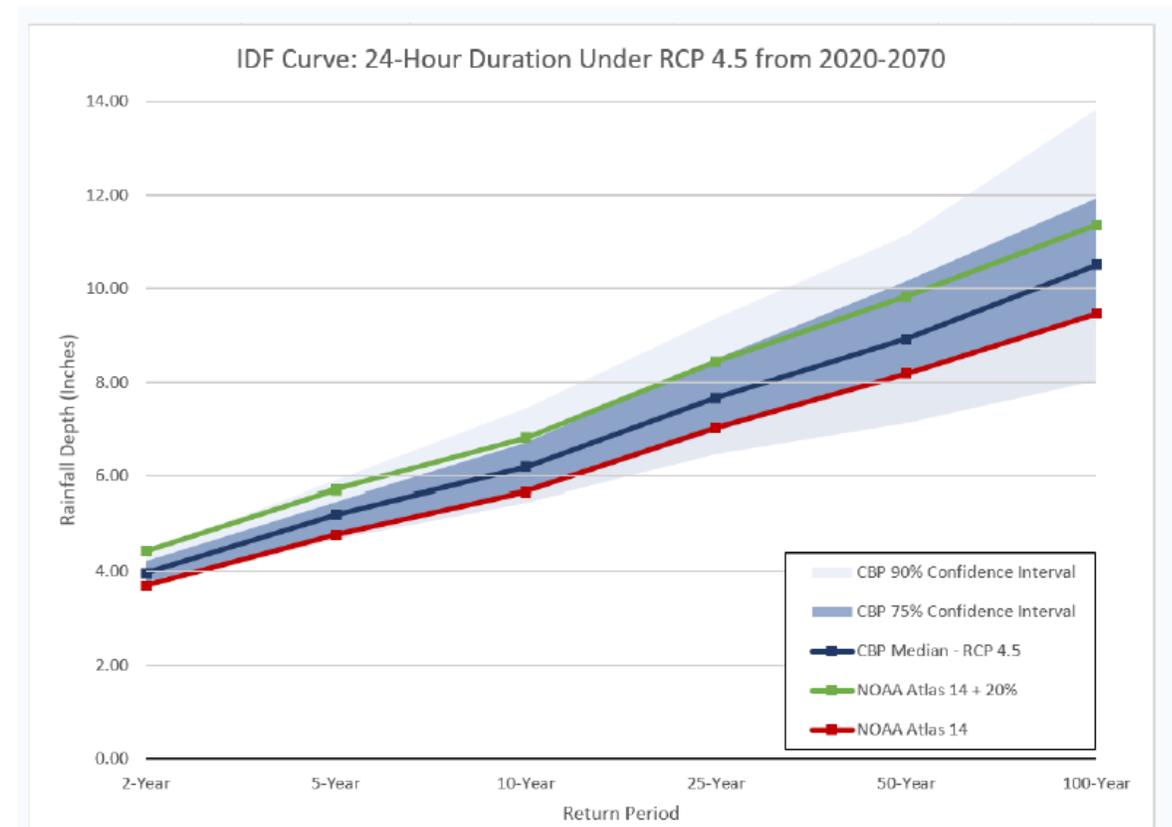
BMP Performance

- Stormwater BMPs face more maintenance, more overflow, and more bypass, among other impacts
- We have some frameworks for assessing vulnerabilities
- We have some frameworks for variability, but maybe not performance
- There is partner interest in piloting new design specs – but they need some support

SOME HEADLINES

Modeling

- Climate-informed IDF curve work will be iterative – and needs translating
- More long-term studies are needed on BMP performance under climate change
- Micro-bursts are tricky



SOME HEADLINES

Decision Making Frameworks

- How are decision makers operationalizing projections?
- How are planners determining their desired level of service, project objectives, and appropriate sites/practices?
- Vulnerability assessment tools

WHAT'S NEXT

- White paper and survey distributed for feedback
- November USWG meeting to review/discuss results and make recommendations
- Collaborate with CRWG on priority research recommendations
- Return to WQGIT in Dec/Jan with implementation support recommendations