QUARTERLY PROGRESS MEETING – August 2019 Chesapeake Bay Program



Fish Passage





Mary Andrews NOAA Restoration Center Fish Passage Workgroup Chair

Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...



Goal: Vital Habitats – Fish Passage Outcome:

Continually increase available habitat to support sustainable migratory fish populations in Chesapeake Bay freshwater rivers and streams. By 2025, restore historical fish migratory routes by opening 1,000 additional stream miles, with restoration success indicated by the consistent presence of alewife, blueback herring, American shad, hickory shad, American eel and brook trout, to be monitored in accordance with available agency resources and collaboratively developed methods.



How You Can Help

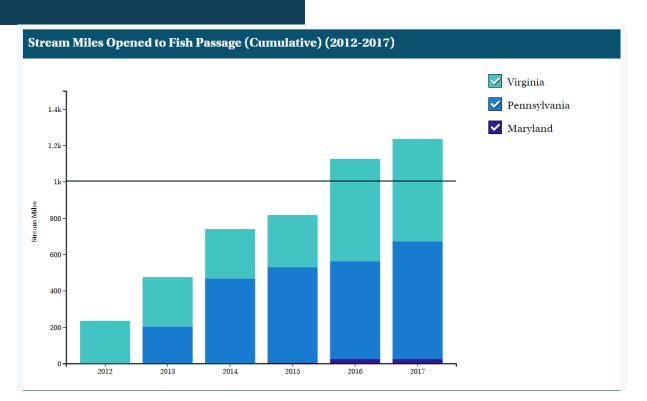


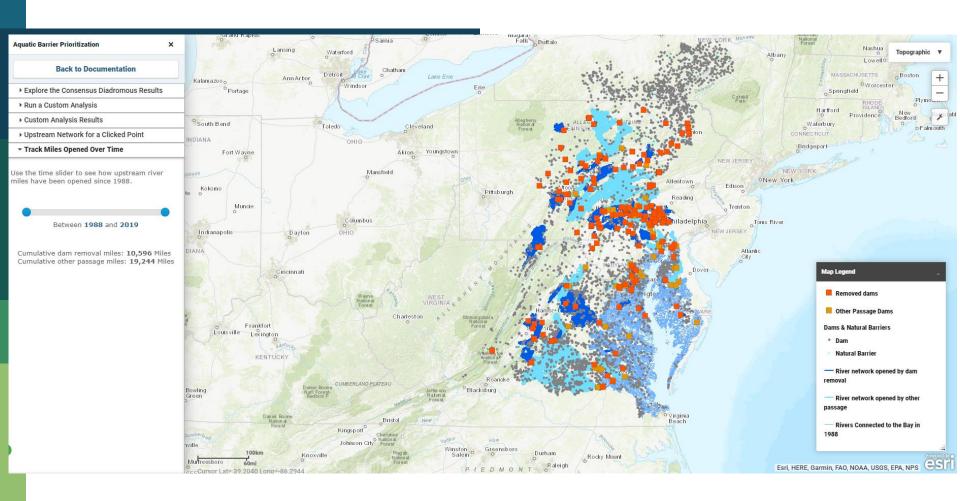
- Largest dam removal in state of Maryland ~ 30 foot dam with significant sediment release
- Patapsco monitoring data part of national discussion on sediment release during dam removals
- Presence/absence of target species being complete at removals
- New projects being planned watershed-wide
- Functional, highly efficient workgroup





What is our Expected and Actual Progress?







Successes and Challenges

- •Interest by dam owners is still a major challenge
- •Incentives for removal are needed to gain interest in dam removal mitigation credit one option; coordination with dam safety offices
- Little work to date on road-stream crossings



Learn

There are over 165,000 road-stream crossing in the Chesapeake Bay. Road—stream crossings need to be addressed and represent a scale much larger in number than dam removals. A different approach is needed



Photo by: Ethan Nedeau: MA Stream Crossings Handbook



On the Horizon

- •Given the focus on increasing storm events and higher river flows, addressing fish passage at road-stream crossings at the same time is a common sense approach.
- Guidance being developed for fish passage at road-stream crossing with possible funding from GIT if selected.
- •U.S. Army Corps of Engineers recently released guidance on mitigation crediting for dam removals and other river obstructions. State of Maryland developing draft mitigation calculator



Adapt

How does all of this impact our work?



Based on what we learned, we plan to ...







Replaced with an Open Bottomless Arch Culvert (Paul Nguyen photo)

•Opportunities to restore fish passage through the retrofitting or removal of culverts—in addition to dam removal—are being investigated and incorporated into our two year action plan.



Help

How can the Management Board lead the Program to adapt?



Help Needed

- •Bring awareness to dam safety programs that dam removal is a viable option to consider along with the usual "repair or replace" options under dam safety regulations and planning.
- •PA − excellent job! Model coordination
- •MD stalled with new leadership pending at DNR and MDE. Need renewed emphasis on these talks.
- •VA staff from dam safety to attend VA Fish Passage Task Force Meetings

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Discussion