



Department of
Environmental
Conservation

The Culvert Connection

Invisible Infrastructure and Our Streams



August 22nd 2019
Connecting Our Streams Workshop
Norrie Point Environmental Center

15 second outline

What's a culvert?

Culvert Prioritization Project

Ecology and Flood Resiliency

**Where are the resources
and how do I get involved?**



Structures that allows water to flow under a road from one side to the other.

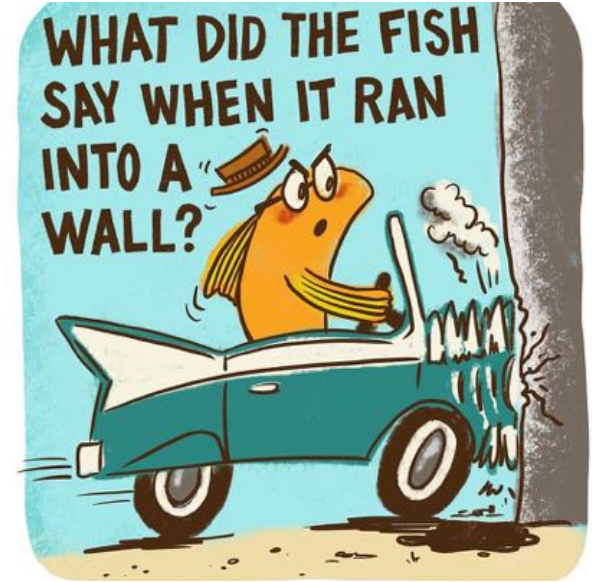


In NYS 20ft and under in width Over 20ft: Bridge



Aquatic Barriers are numerous

1500+ Dams in the Watershed



Road-Stream crossings are prolific and invisible

9000+ Assessed Crossings





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Micrographia



Alan Richmond



Micrographia



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Barry Wicklow



Robert Jenkins & Noel Burkhead

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Not much to make a barrier



Images from The Seattle Times and Andy Stevens (Twitter)



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Obligatory Map Slide

The map represents over 10,000 road-stream crossings that have been assessed and inventoried in the NAACC Database

Thanks to the help of many partners!

Includes dams and other artificial barriers

1500+ Dams in the watershed



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North Atlantic Aquatic Connectivity Collaborative


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[Data Center](#)
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The North Atlantic Aquatic Connectivity Collaborative (NAACC) is a network of individuals from universities, conservation organizations, and state and federal natural resource and transportation departments focused on improving aquatic connectivity across a thirteen-state region, from Maine to West Virginia. See below for some of our stream-crossing assessments.



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Aquatic Connectivity - Best Practices

Focuses on the development of aquatic connectivity for most crossings to riparian streams and rivers, including water bodies, culverts, and existing infrastructure. Includes best practices for stream restoration projects as a component of the water infrastructure program.

Aquatic Connectivity - Tidal

An assessment procedure to evaluate aquatic systems for tidal stream restoration, including, but not limited to, tidal stream restoration, tidal stream restoration, and tidal stream restoration.

High-Quality Water Quality

The NYSDEC has developed a high-quality water quality assessment procedure that evaluates the water quality of streams and rivers. This procedure is designed to be used by the state and local governments to assess the water quality of streams and rivers. The procedure is designed to be used by the state and local governments to assess the water quality of streams and rivers.

Streambed Connectivity

The NYSDEC has developed a streambed connectivity assessment procedure that evaluates the streambed connectivity of streams and rivers. This procedure is designed to be used by the state and local governments to assess the streambed connectivity of streams and rivers. The procedure is designed to be used by the state and local governments to assess the streambed connectivity of streams and rivers.

Culverts and the Estuary Program



Conduct NAACC Assessments **Passability**

WRI models crossing for flooding **Capacity**

Work with communities to develop **management plans**



Design replacements for **undersized barriers**

Implement structures that are fully passable and resilient

One small step for nature, giant step for people

Town of Ancram: Pats Road, the Roe-Jan and Trout



Sign me up!



Continue to support our partners in barrier mitigation

- How can we help?

Work collaboratively to bring in additional resources

- Technical support
- Research
- Funding for mitigation



Thank you!

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