

# New Hampshire Aquatic Restoration Mapper

*An interactive viewer to explore stream crossing and aquatic habitat data to identify restoration opportunities in your community*

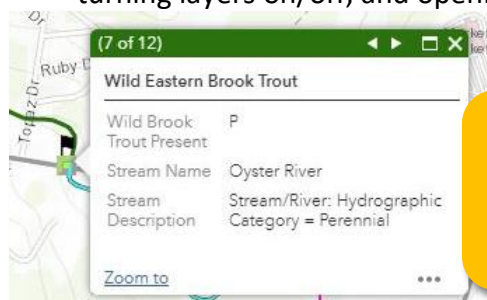
[www.des.nh.gov/organization/divisions/water/wetlands/wmp](http://www.des.nh.gov/organization/divisions/water/wetlands/wmp)

The **Aquatic Restoration Mapper** is a useful tool to target restoration efforts and identify mitigation opportunities to improve stream connectivity, restore important fish habitats, and increase flood resiliency.

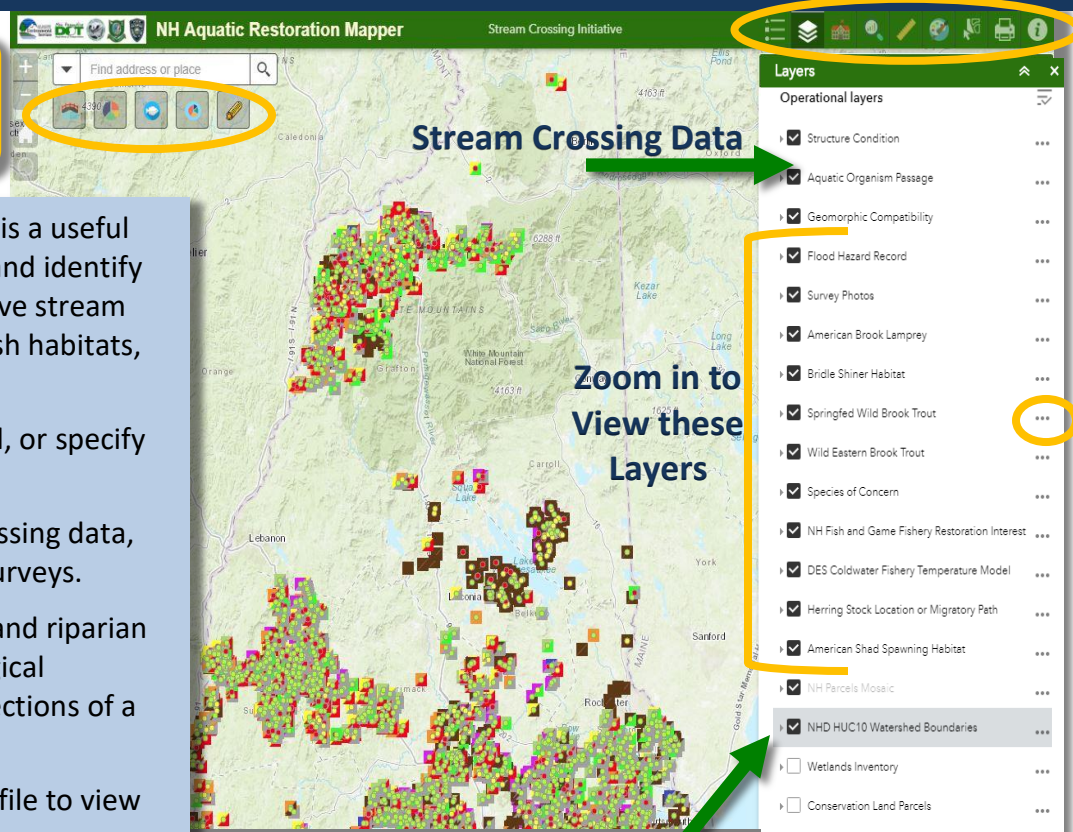
- View data by town, watershed, or specify your own area of interest.
- Query and explore stream crossing data, including photographs from surveys.
- View stream habitat, fishery, and riparian data to understand the ecological importance and habitat connections of a restoration area.
- Export selected data as a text file to view and analyze in other software.
- Print maps of your project area to include in grant applications and presentations!

## Get Familiar with the Layout of the Mapper

- Zoom in and out, pan around the map, and enter a search address to explore an area.
- Click on the **info** button to get definitions for the stream crossing scores, stream and riparian habitat, and flood hazards data.
- Click on the **legend** icon to expand the symbology of each layer.
- Expand the **layers** tab to view what information is available, try turning layers on/off, and opening the data table.



Click on any point, line, or polygon feature in the map to view a pop-up window that displays attribute information for every record!



Click Boxes to Turn Layers On/Off



### Legend

#### Aquatic Organism Passage

- Full AOP
- Reduced AOP
- No AOP except adult salmonids
- No AOP all organisms
- Unable to Score

#### Geomorphic Compatibility

- Fully Compatible
- Mostly Compatible
- Partially Compatible
- Mostly Incompatible
- Fully Incompatible
- Wetland Crossing
- Lake/Pond Crossing
- Unable to Score

#### Flood Hazard Record



#### American Brook Lamprey



#### Bridle Shiner Habitat



#### Springfed Wild Brook Trout



#### Wild Eastern Brook Trout



*The New Hampshire Stream Crossing Initiative is a multi-agency program aimed at improving infrastructure, flood resiliency, and stream connectivity across the state.*



# New Hampshire Aquatic Restoration Mapper

*A decision support tool to prioritize culvert replacement and stream restoration projects*

## Data Layers of the Mapper

Find out about barriers to stream connectivity, important fish habitats, and flood hazards in an area by exploring the layers together.

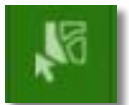
- Stream Crossing Data and Photos
- Important Fish Habitats
- Presence of NH Species of Concern
- Predicted Coldwater Fish Streams
- Highest Ranked Wildlife Habitat
- Land Parcels
- National Wetlands Inventory
- Conservation Parcels
- HUC 10 Watershed Boundaries
- Flood Hazards Data



## How to Explore Stream Crossing and Habitat Data

➤ **Narrow in on Your Area of Interest** — You can select stream crossing data by **Town** using the filter tool or **select records** in a defined area manually (hold down shift to select multiple areas).

- To select records within a watershed, turn on the HUC 10 boundaries layer and use the manual tool to select the data within the polygon.

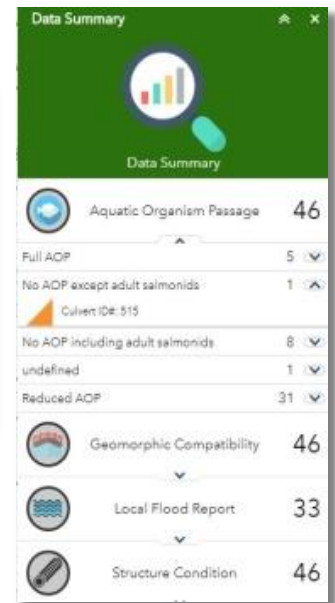
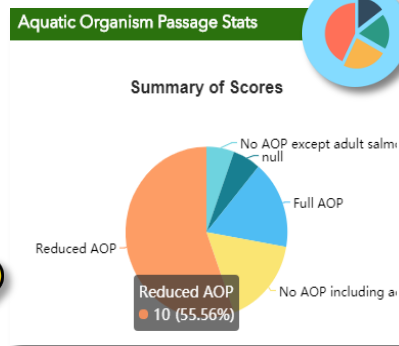


➤ **Get a Summary of the Stream Crossing Data** — Click on the **Data Summary** icon to get a list of stream crossings in your search area categorized by scores and flood vulnerability.

➤ **View Statistics** — Click on the **Summary Stats** icons to get percentages on stream crossing scores for the area of interest

- Right-click on the graph to save a graphic file of the chart to use in reports and presentations!

➤ **Filter Data** — Put a filter on the stream crossing data to view records that have certain scores.



➤ **Measure Distances** — Use the ruler tool to get estimates of stream length and distance between features.

- By measuring along the flowline you can get an idea of how much upstream habitat can be gained if a given culvert was removed/replaced.



## Export Data, Create Maps and Share Your Results!

➤ **View the Data Table** by clicking on the grey arrow at the bottom of the map and export selected records as a text file.

- Latitude and longitude coordinates of each record are included

➤ **Mark up the map** by using text and drawing tools to communicate key results.

➤ **Export your map** to a PDF file to include in reports, grant applications, and presentations!

