

Fisheries Program Overview

Todd Richards, Assistant Director for Fisheries
Water Resources Commission Meeting
September 8, 2022

Fisheries Program Goals

Conduct Monitoring and Research

Provide
High
Quality
Recreation

Protect and Restore
Aquatic
Resources

Fish Community Surveys

- Use the best gear for the conditions to get a representative sample in all habitats
 - Backpack electrofishing for small streams and shallow water
 - Barge electrofishing for wadable streams a bit larger



Fish Community Surveys

- Gillnets
- Quabbin and Wachusett
- Target bottomdwelling species

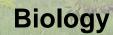
Monitoring and Research

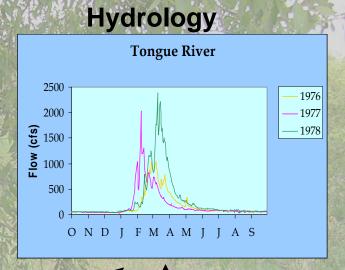




Geomorphology



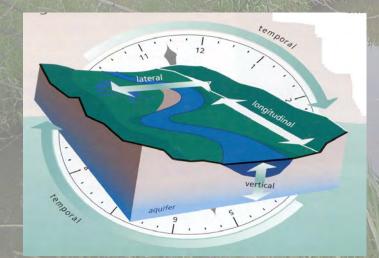


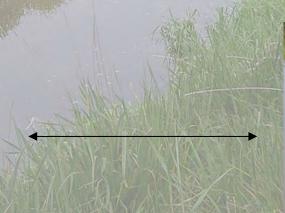


Connectivity



Water Quality







Research

Monitoring and Research

- Coop Unit Involvement
 - Lake and pond drawdowns
 - In-lake
 - Downstream
 - Dam removal & ecological response
 - Regional aquatic biodiversity assessment
- NECASC
 - Coldwater climate refugia
 - Stream and air temperature modeling
- Human Dimensions
 - Cold- and warmwater angler survey

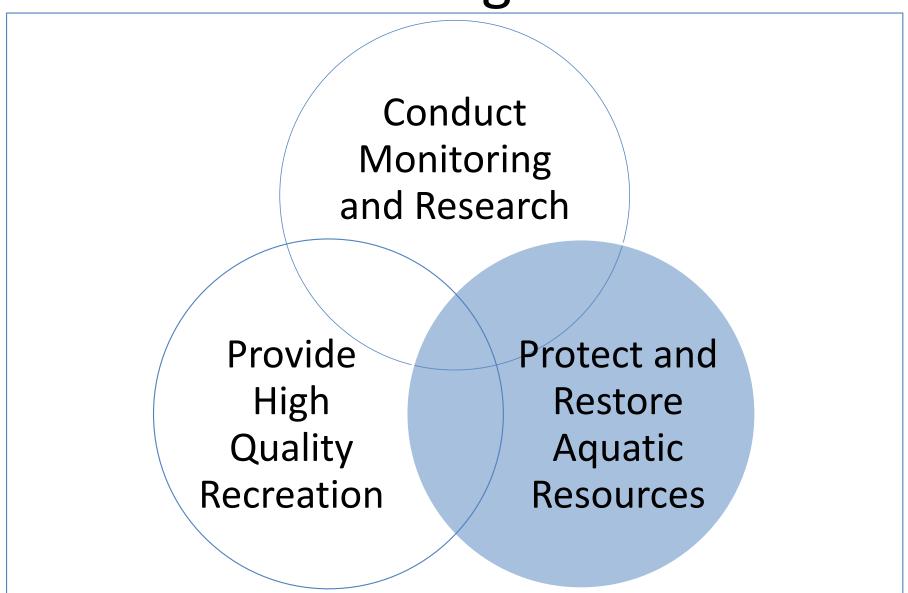
Deerfield River Research





Monitoring and Research

Fisheries Program Goals

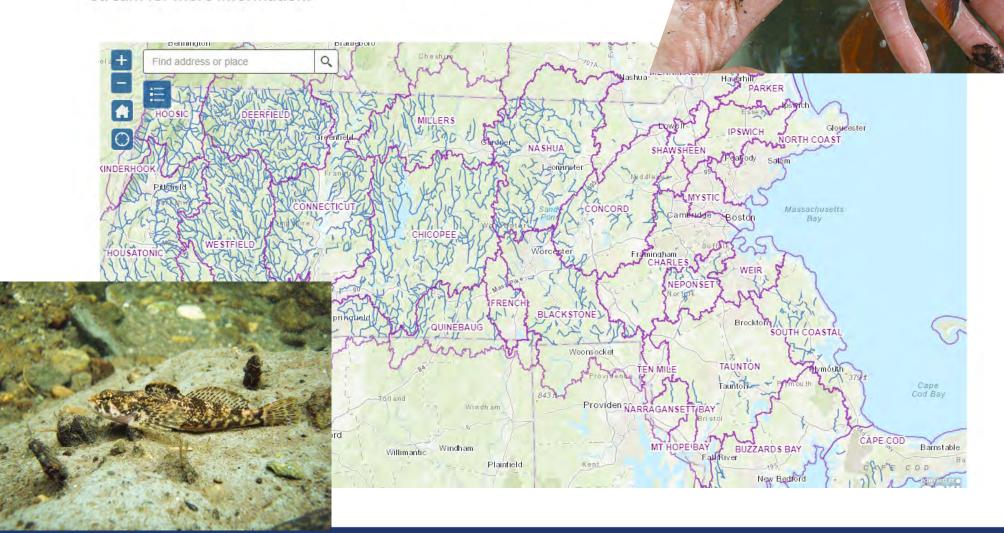


Protect and Restore Aquatic Resources

- Regulations
- Coldwater Fish Resources
- Wild Trout Management Plan
- Land Acquisition/Biomap
- Policy Development
- Climate Resilience/Refugia
- Active Habitat Management

Coldwater Fish Resources

A Coldwater Fish Resource (CFR) is a stream, river, or tributary in which reproducing coldwater fish are found. Conservation/planning commissions, land trusts, consultants, and town open space committees will find this information useful for conservation planning. To get started, find your town using the search box in the map below. CFRs are shown in blue, click on a stream for more information.



Wild Trout Management Plan

- Summarize knowledge of wild trout resources
- Identify monitoring and research needs to improve our ability to manage wild trout
- Outline goals/objectives for wild trout management
- Develop products for both conservation of wild trout resources and for recreational anglers to better use these resources



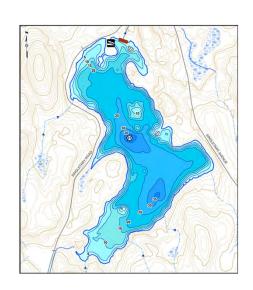




Lake and Pond Management

- Interagency Collaboration
- Environmental Review
- Bathymetry
- Condition Factor

Protect and Restore



The Practical Guide to Lake Management in Massachusetts

A Companion to the Final Generic Environmental Impact Report on Eutrophication and Aquatic Plant Management in Massachusetts



Commonwealth of Massachusetts
Executive Office of Environmental Affairs

2004

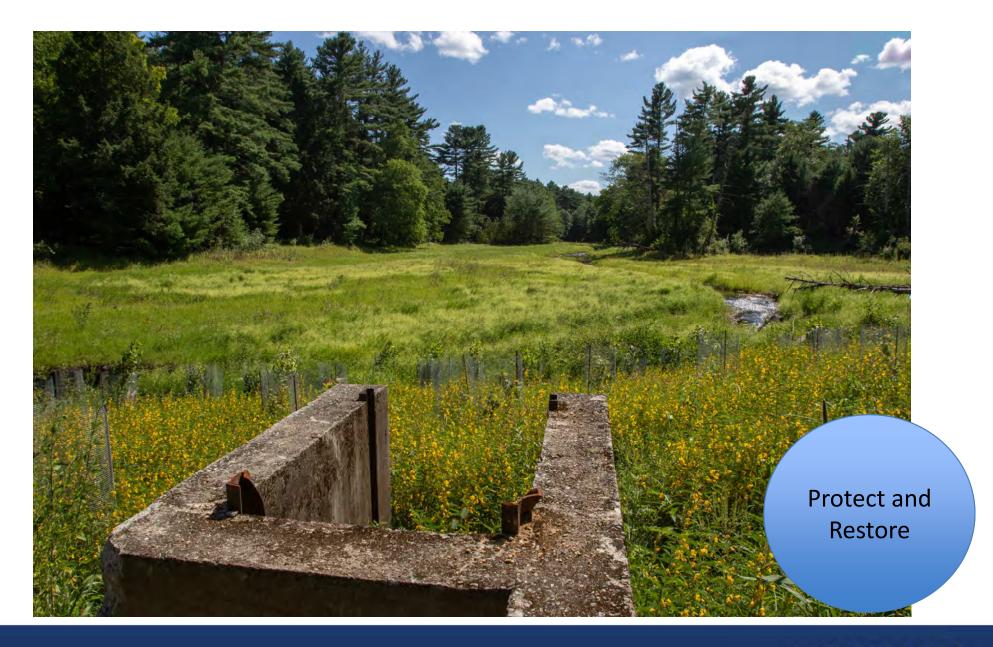
Inter-agency Policy Development

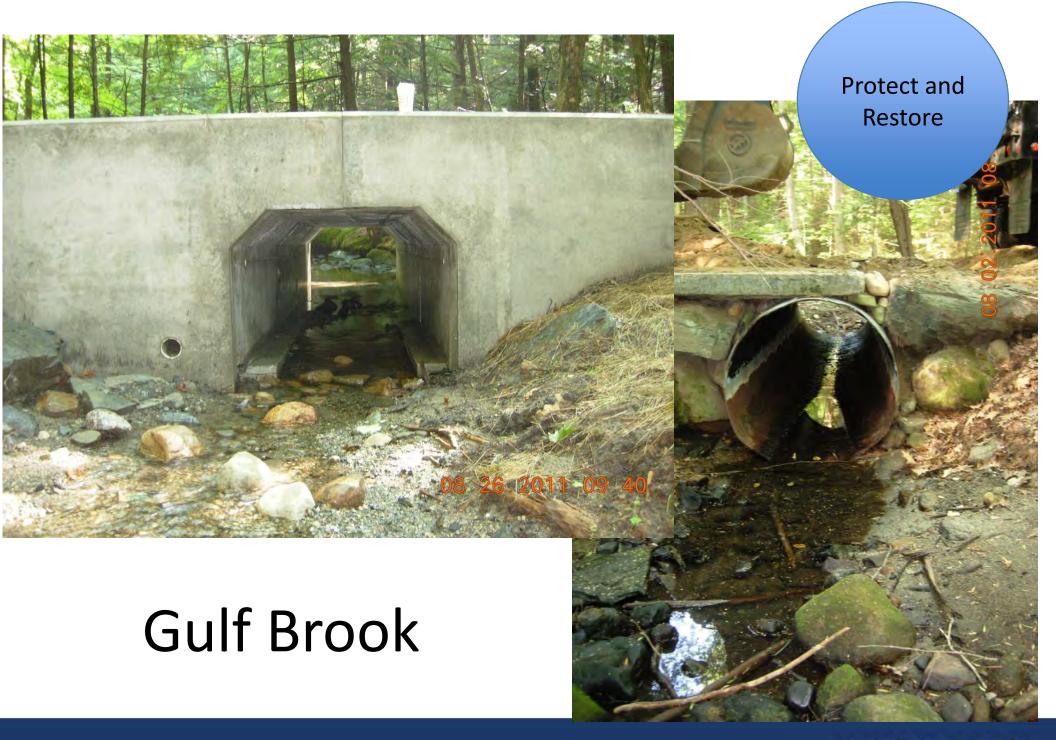
- Water Resources Commission ITA
- Water Management Act
- Drought Management Task Force
- Interagency Fish Toxics Committee
- Fish Kill MOU

Active Habitat Management



Active Habitat Management





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Conduct Monitoring and Research

Provide
High
Quality
Recreation

Protect and Restore Aquatic Resources Recreation



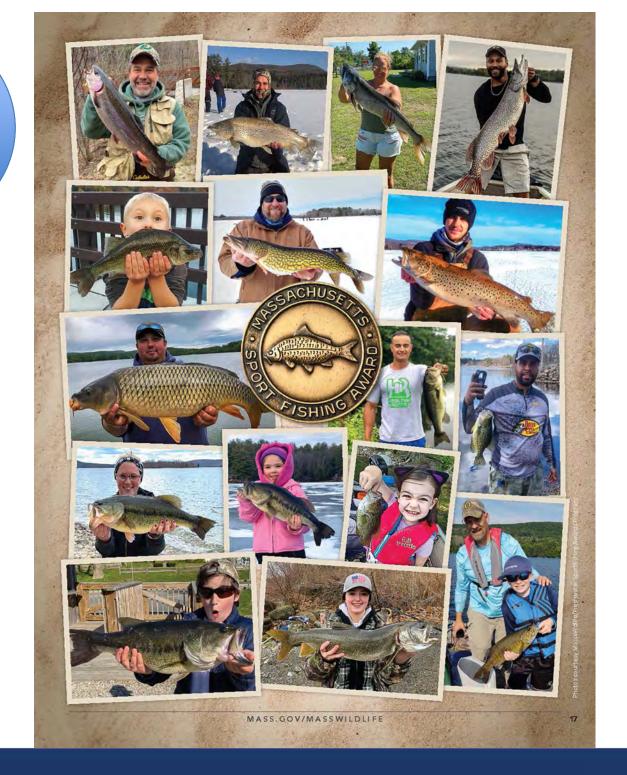
Recreation

Warm

Streams

Stocked

Lakes



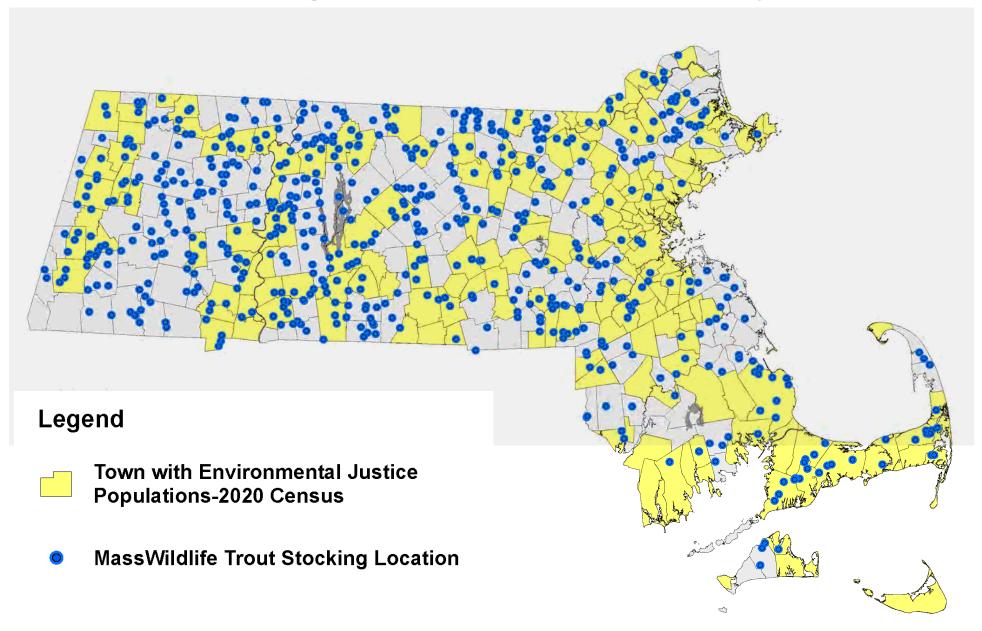
Cold

Wild

Ponds

Rivers

Trout Stocking in Towns with EJ Populations



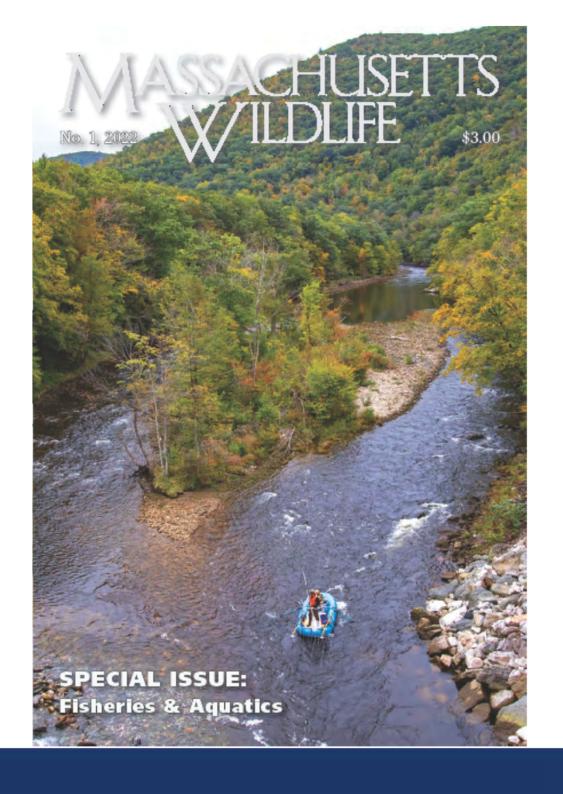








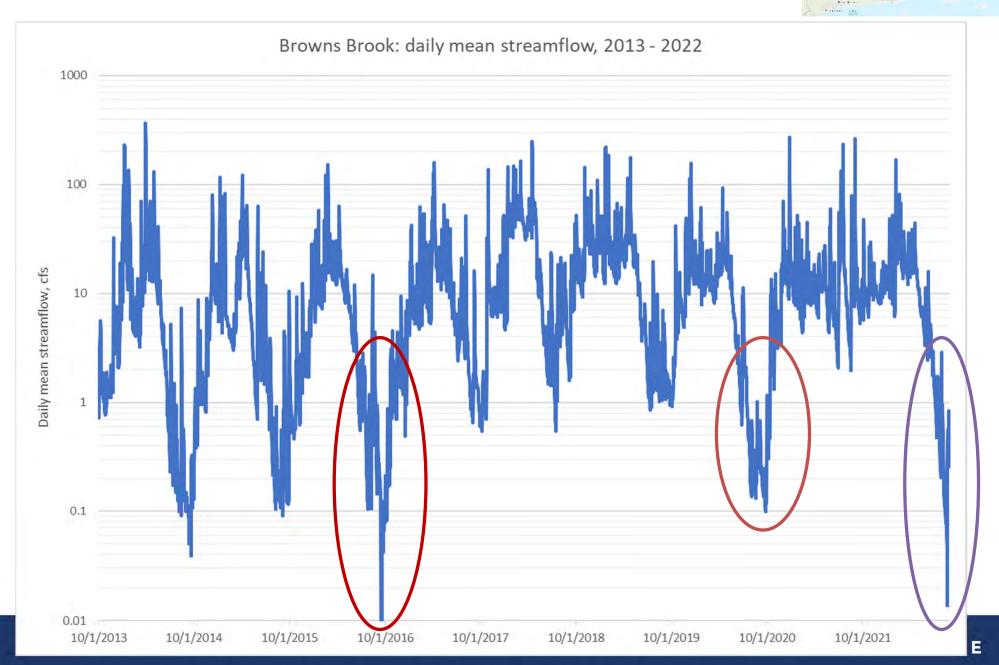
Connect people with nature



Drought



Central region - Browns Brook, Holland



Connecticut River Valley regio

Nashawannuck Brook, Northampton











Fallfish Nest















