

Status of Dam Removal in Massachusetts

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Division of Ecological Restoration

February 10, 2011

Water Resources Commission



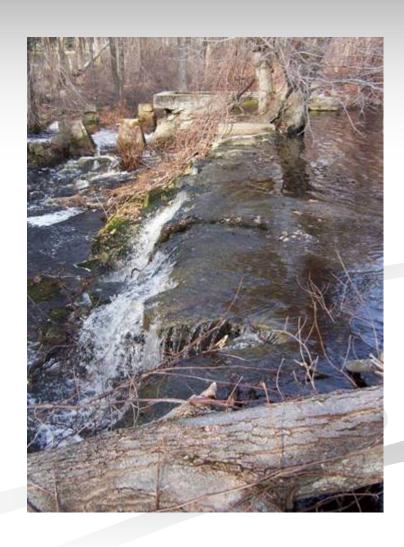
Department of Fish & Game

Mission:

To promote the restoration, protection & ecological integrity of the Commonwealth's rivers, streams and adjacent lands

Over the last 30 years

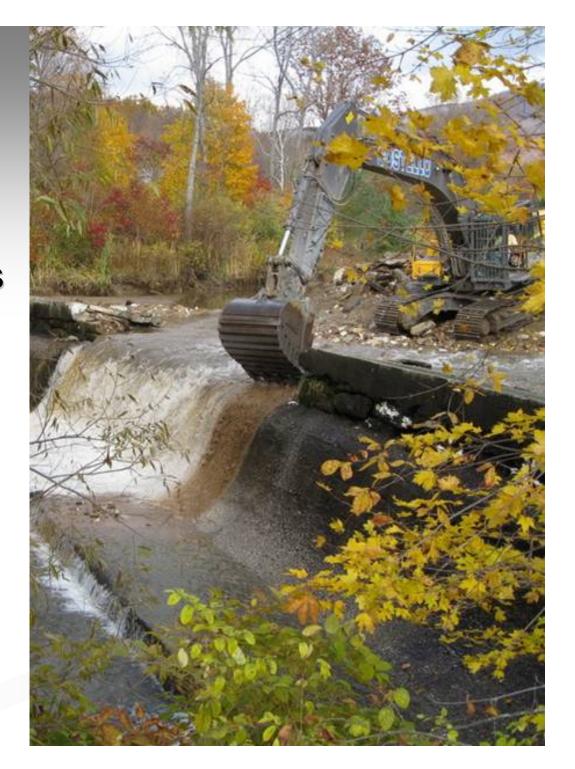
- Extreme rain / snow events
- Extreme floods
- Old dams
- Public safety threats



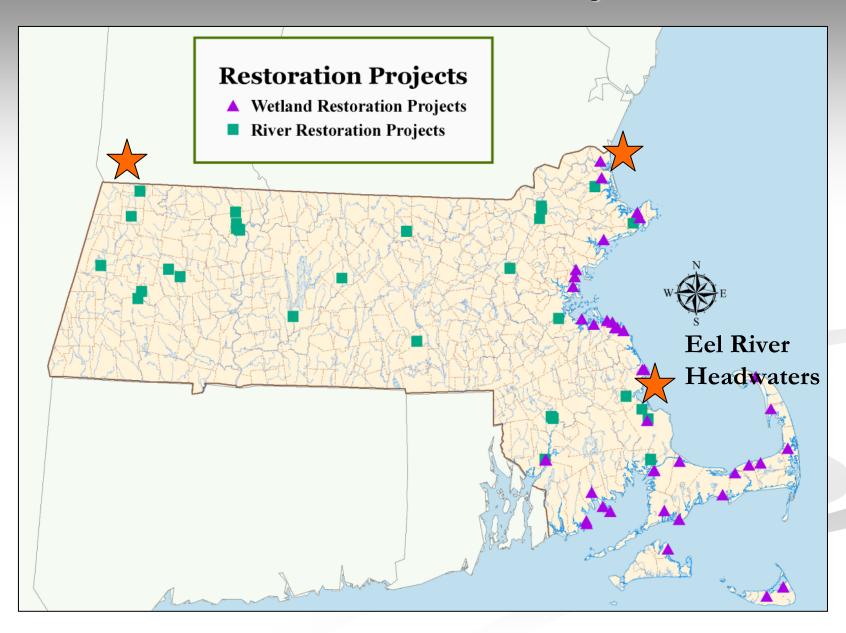


In the next few minutes:

- Overview of 2010 dam removal projects
- Preview of future projects
- Barriers to dam removal



2010 Dam Removal Projects



Eel River Headwaters Restoration Project

- Dam, culverts, wetlands
- ~ \$2 million
- 40 acres wetland restored
- ~ 1.7 miles of stream
- Town of Plymouth, DER, USFWS, USDA NRCS, Mass DEP / US EPA, TNC, American Rivers, CWRP (Horsley Witten)
- Non-jurisdictional dam









April, 2010

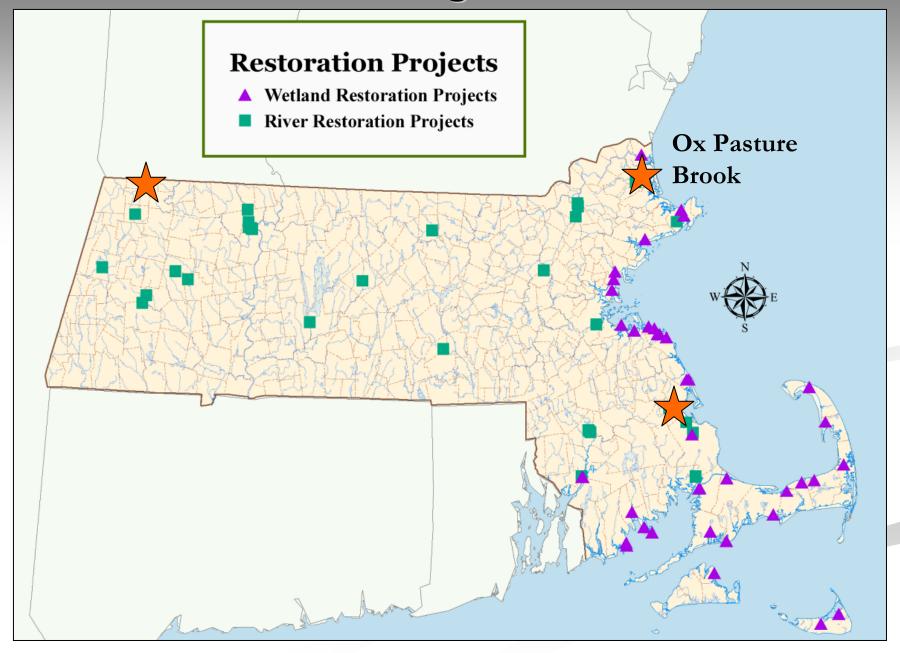


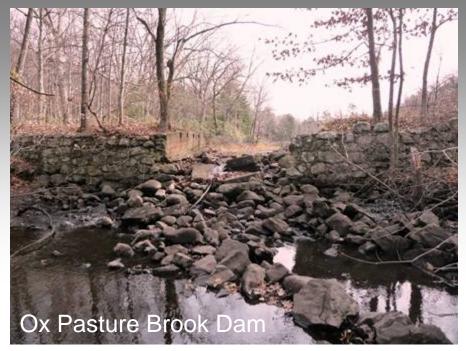
August, 2010



Monitoring: fish, macroinvertebrates, vegetation, water quality (temp, nutrients)

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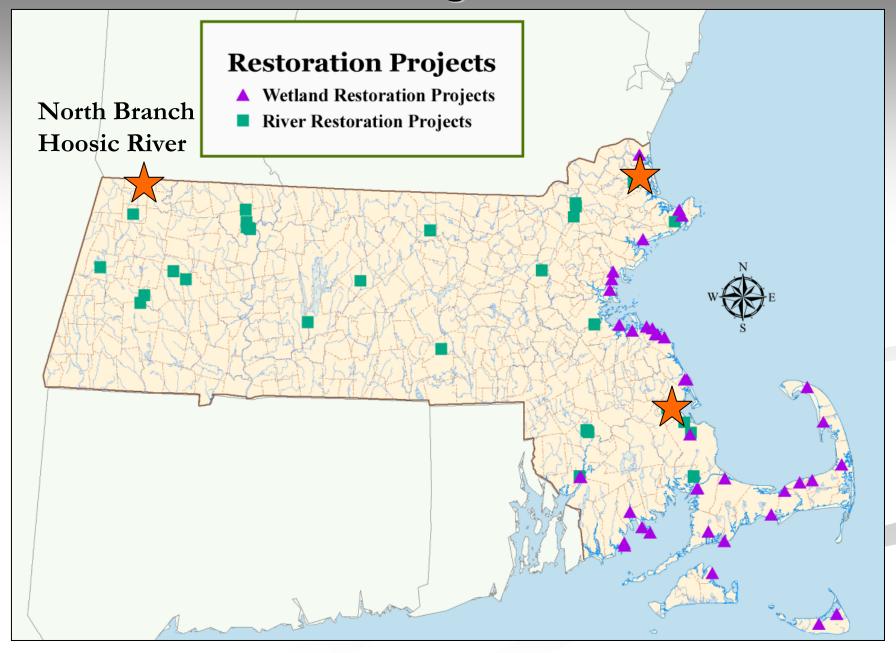








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Emergency removal: Forge Pond Dam, Assonet River, Freetown



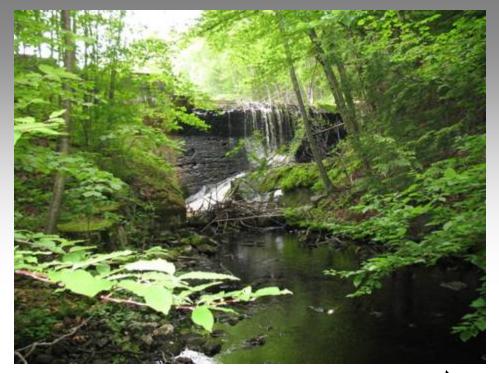
Forge Pond Dam from left bank



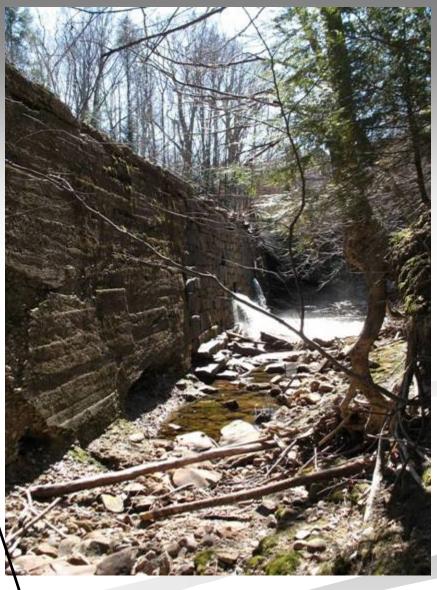
Forge Pond Dam from right bank











Amethyst Brook, Pelham
1000 Acre Brook, Athol
2011
Jones River, Kingston



Other things we do

- Trainings for dam removal project managers
- Develop / update guidance
- Speak at conferences and meetings
- Share information (Restoration Potential Model)
- Expand our approach

Barriers to dam removal

- Funding
 - For ecological restoration
 - To remediate dam safety issues
- Technical
 - Infrastructure utility pipes, bridges, roads
 - Contaminated sediment
- Process
 - Understanding permitting (8 or more permits)
 - Time









SAVE THE DATE! - May 18 & 19, 2011 Conference on River Monitoring and Climate Change in Massachusetts

How citizen-based monitoring can help us understand and address the impacts of climate change on our rivers.

- Are you concerned about the impact of climate change on rivers?
- Does your organization have a river or stream monitoring program?
- Are you interested in learning what other organizations, government agencies, and universities are doing to address climate impacts on rivers?
- Would you like guidance in developing a climate change plan for your river or watershed?

If the answer is "yes" to any of these questions, this conference is for you!

This conference is presented by the Massachusetts Rivers Alliance in partnership with the MA Department of Fish and Game's Division of Ecological Restoration. Day #1, May 18th will consist of presentations, breakout sessions, and discussions from 9am-4pm at the Trustees of Reservations' Doyle Conservation Center in Leominster, MA. Day #2, May 19th, participants may choose to go on one of two fields trips, to sites in either eastern or western Massachusetts. The conference is funded primarily by a grant from the Massachusetts Environmental Trust. The cost of the conference is \$20 per person.