SUDBURY RIVER WARNING

SUDBURY RIVER FISH



Fish Contaminated With Mercury DO NOT EAT

Pescado Contaminado con Mercurio NO SE PUEDE COMER

Peixe Contaminado com Mercúrio **NÃO COMER**

Cá Bị Ngộ Độc Với Thủy Ngân Đừng Ăn

For Information Call:

U.S. Environmental Protection Agency Massachusetts Department of Public Health

1-888-372-7341 1-617-624-5757

Mercury Contamination - Sudbury



- From Nyanza Chemical and Dye in Ashland
- Listed on the National Priorities List 1983; cleanup began 1987
- Mercury contamination to Sudbury River sediments; remediation proposed sand capping on Framingham Reservoirs or natural attenuation – opted for natural attenuation.
- National Resources Damage Assessment and Restoration Fund funded restoration projects along all 3 rivers

Water chestnut

- Sudbury River
 - Heaviest coverage
 - Managed in Concord, Lincoln, Wayland areas by US F&W and towns (harvester/hand-pulling)
 - Management starting in Framingham
- Concord River
 - Heavy infestation in Billerica impoundment & some downstream
 - No management
- Assabet River
 - Smaller areas
 - Managed by hand-pulling
 - Fourth year of OARS' Rapid Response team





Rapid Response Team 2016 Powdermill Impoundment, Acton



Water chestnut mapping

- Mapping all 3 mainstem rivers (summer 2106 will be 3rd time)
- Find emerging populations & track progress managing
- Guide Rapid Response team pulling on the Assabet

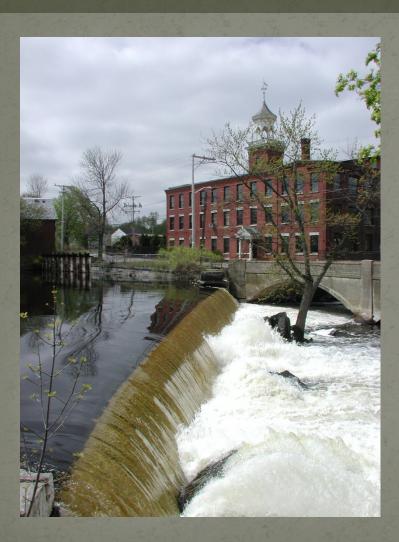


MobileMapper





CONCORD RIVER

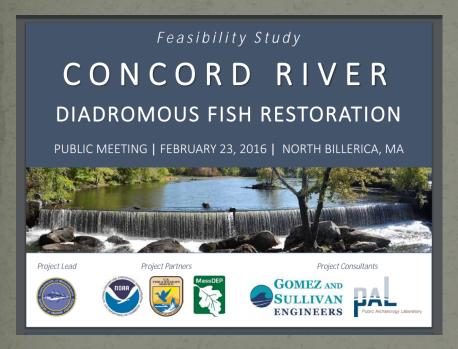


- Water chestnut
- Somewhat eutrophied
- Dams
- Diadromous fish passage

First large tributary on the Merrimack



Diadromous Fish Restoration Study



- One of the 12 projects funded by Nyanza Restoration fund
- Focus: Alewife, American
 Shad, Blueback herring,
 American eel, Sea lamprey
- Mass Marine Fisheries, NOAA, US F&W, Mass DEP

Project Lead



Project Partners





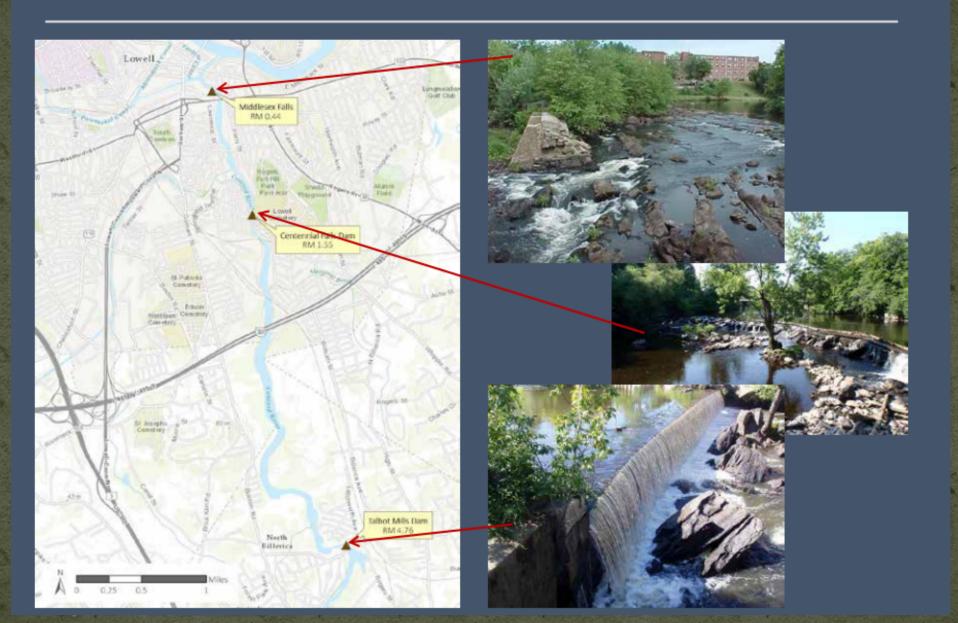


Project Consultants





FISH PASSAGE OBSTACLES



Study 2016 findings: "fish passage restoration on the Concord River is technically feasible"

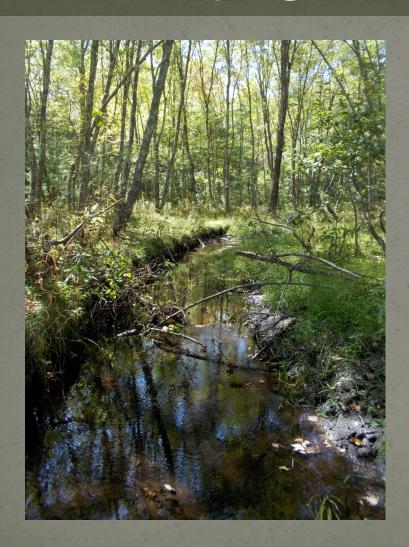


Merrimack River Essex Dam, Lawrence, Massachusetts Counts as of June 5, 2018

Species	Total Returns to Date
Atlantic Salmon	9
American Shad	18,999
River Herring	449,050
Striped Bass	76
Sea Lamprey	5,424
American Eel	16,370
Gizzard Shad	11
*River herring refers collectively to two fish species: blueback herring and alewife	

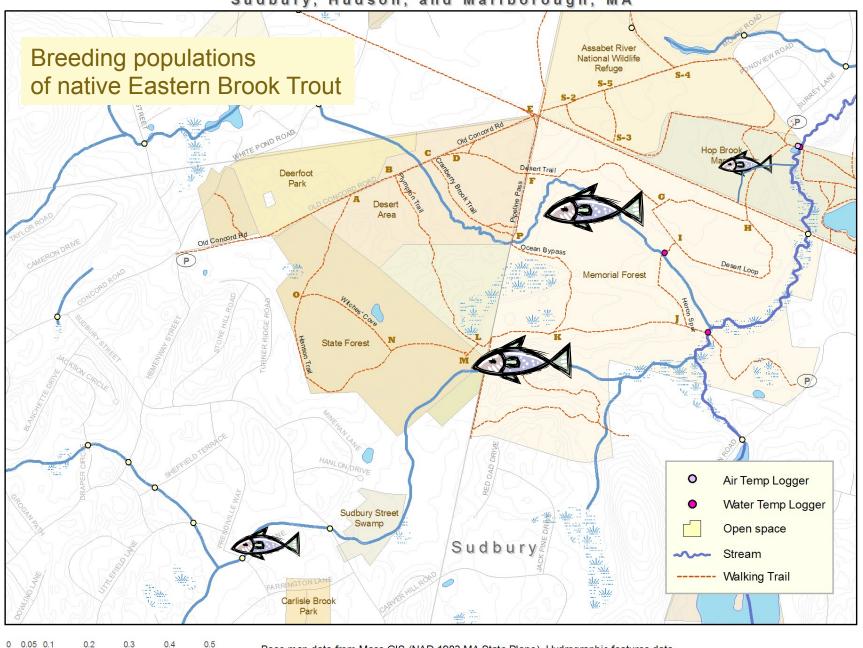
- Fish passage at Talbot Mills Dam would open access to
 - 35 miles (740 acres) of mainstem rivers
 - 100 miles of tributaries
 - 260 acres of lakes and ponds
- But... monitoring at the Centennial Island dam this spring didn't find any herring headed up stream.

TRIBUTARY STREAMS





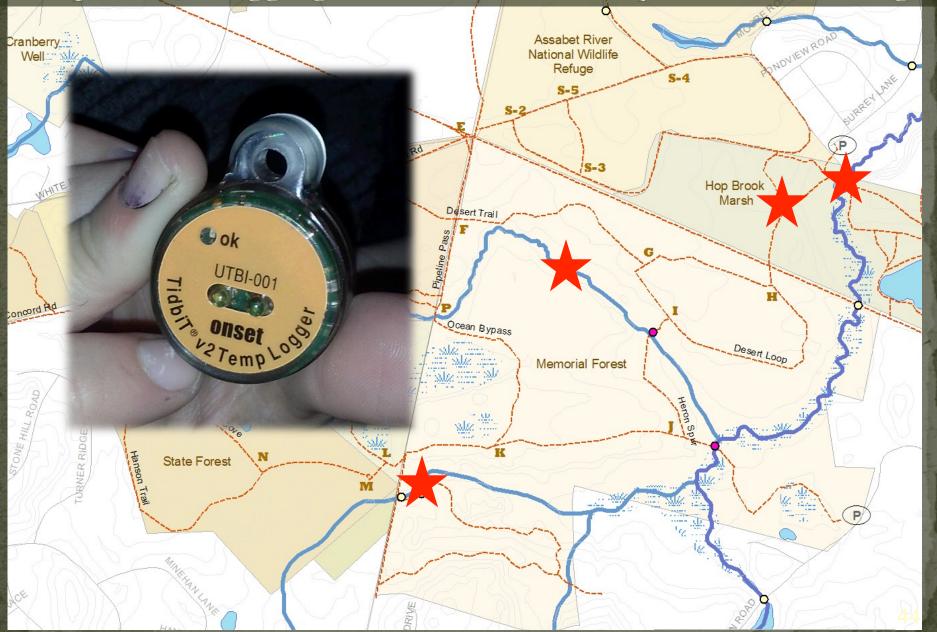
Trout Streams Project Sudbury, Hudson, and Marlborough, MA

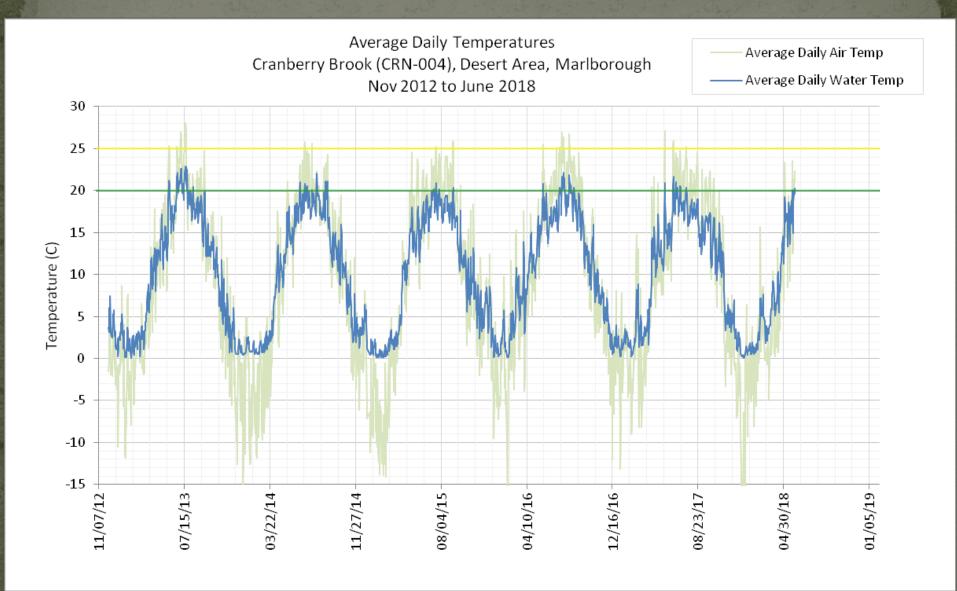


Base map data from Mass GIS (NAD 1983 MA State Plane). Hydrographic features data from USGS National Hydrography Dataset. S. Flint, OARS, October 2012.

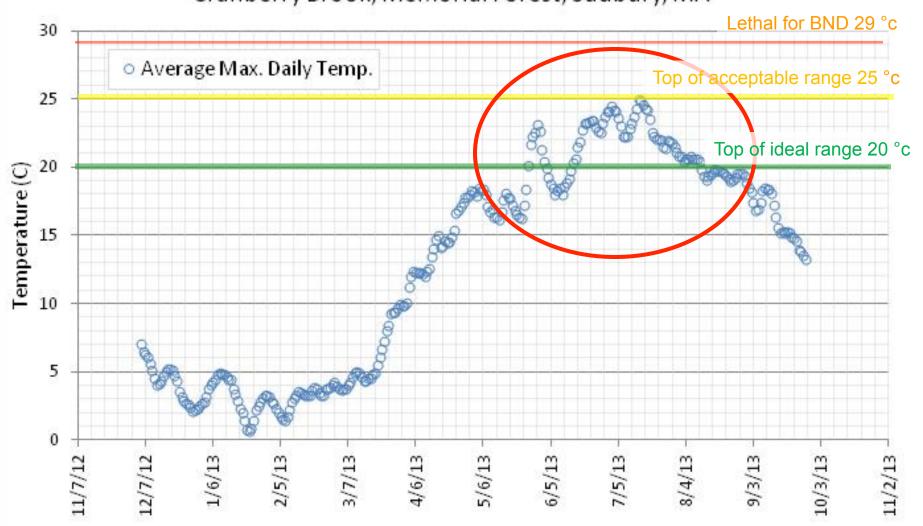


Temperature Logging – assess vulnerability to climate change





7-Day Rolling Average Max. Daily Temperature Cranberry Brook, Memorial Forest, Sudbury, MA



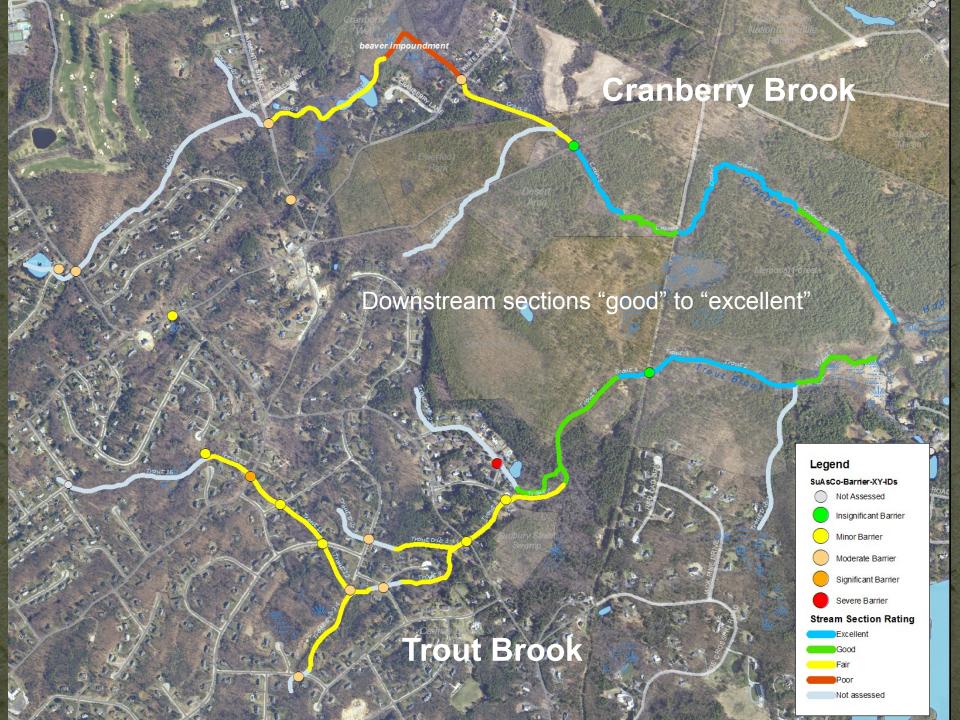
Culvert Surveys





Culverts = potential barriers & habitat fragmentation







www.oars3rivers.org



FOR THE ASSABET SUDBURY & CONCORD RIVERS

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THE RIVERS

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ABOUT EVENTS

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Upcoming events

· Canoes - A Journey of Art, Technology and Survival at OARS Annual Meeting

(5 days)

- · Water Quality Sampling
 - (10 days)
- (10 days)

· Riverfest - Fishing Class for Kids! Sunday, June17

· RiverFest - Ride for the Rivers. June 17

(10 days)

· Riverfest - Yoga, Music, Art and

(10 days)

· Solstice Cardboard Boat Challenge, June 17

History, June 17

(10 days)



more

Canoes - A Journey of Art, Technology and Survival at OARS **Annual Meeting**

Start: 06/12/2018 7:00 pm





"The stories in Canoes are a tribute to the first Peoples who, 500 or 1,000 or even 5,000 years ago, built a craft designed to such perfection that it has plied the waters fundamentally unchanged ever

With features of technology, industry, art, and survival, the canoe carries us deep into the natural and cultural history of North America.

Beautiful slide presentation by Norman Sims, co-author of Canoes: A Natural History in North America.

Tuesday, June 12 7:00 - 9:00 pm

Upcoming OARS events:

Annual Meeting with "Canoes" presentation: June 12th at 7pm

Riverfest Events: June 17th

