

Restoring Rivers: Benefits for People and Nature

WHITTENTON DAM, TAUNTON MA

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WHITTENTON DAM, TAUNTON MA



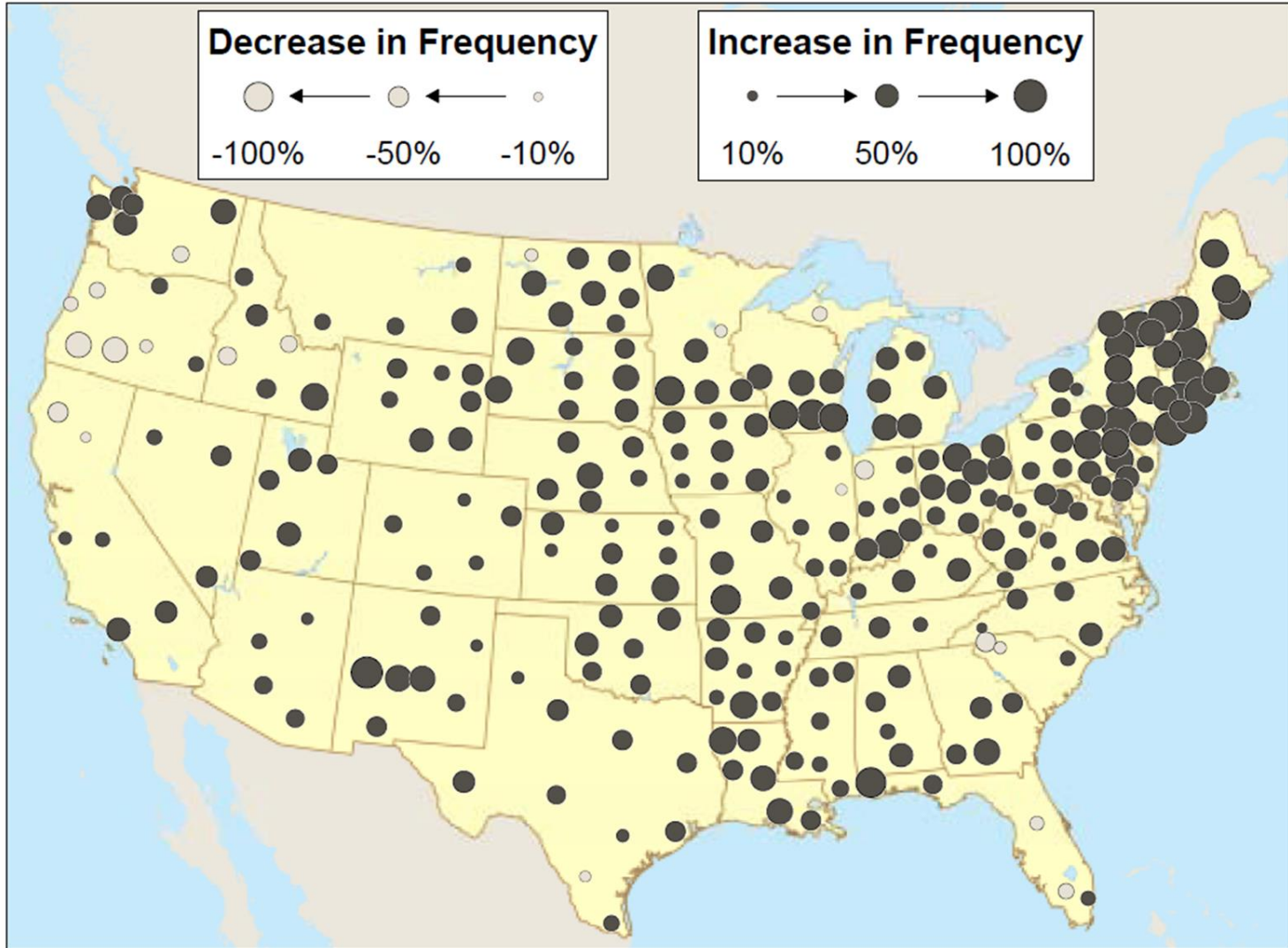


**CRANE STREET, NORTON MA,
2010 FLOODING**

WALKER BROOK CULVERT, BECKET MA



CLIMATE IMPACTS- strong precipitation events



CULVERTS AND DAMS

IMPACTS TO NATURE



CULVERT REPLACEMENT

WHAT WE DO



CULVERT REPLACEMENT

BENEFITS TO PEOPLE

- Avoided flood damage
 - Avoided travel delays
 - Improved safety and mobility, including access to emergency services
 - Avoided loss of business income
 - Return On Investment improves over time
- Communities more resilient to climate change impacts



CULVERT REPLACEMENT

BENEFITS TO NATURE

- More natural river processes
- Decreased bank erosion
- Avoided water quality impacts
- Fish & wildlife passage
- Resiliency and adaptation to climate change



Westfield Brook – Windsor, MA (DER)



Eel River – Plymouth, MA (DER)

DAM REMOVAL

WHAT WE DO



DAM REMOVAL

BENEFITS TO PEOPLE

- Risk of catastrophic dam failure removed
 - Permanent solution, one-time cost
 - Recreational opportunities- fishing and boating
 - Property values
- Communities more resilient to climate change impacts



DAM REMOVAL

BENEFITS TO NATURE

- Return of natural river processes
 - sediment dynamics
 - water quality
 - temperature
- Return to natural habitats
- Fish and wildlife passage
- Resiliency and adaptation to climate change



Photo credits:

- Herring: Massachusetts Division of Marine Fisheries (MA DMF)
- Sea lamprey: MA DMF
- Freshwater mussel: C Bozek

