



Town of Chatham Road Stream Crossing Planning

Green Brook Culvert Removal Project

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Trout Unlimited

Our Conservation Approach

Protect

Reconnect

Restore

Sustain

TU believes that to achieve our conservation goals true partnerships between landowners, agencies, non-profits, municipalities and other stakeholders is essential.

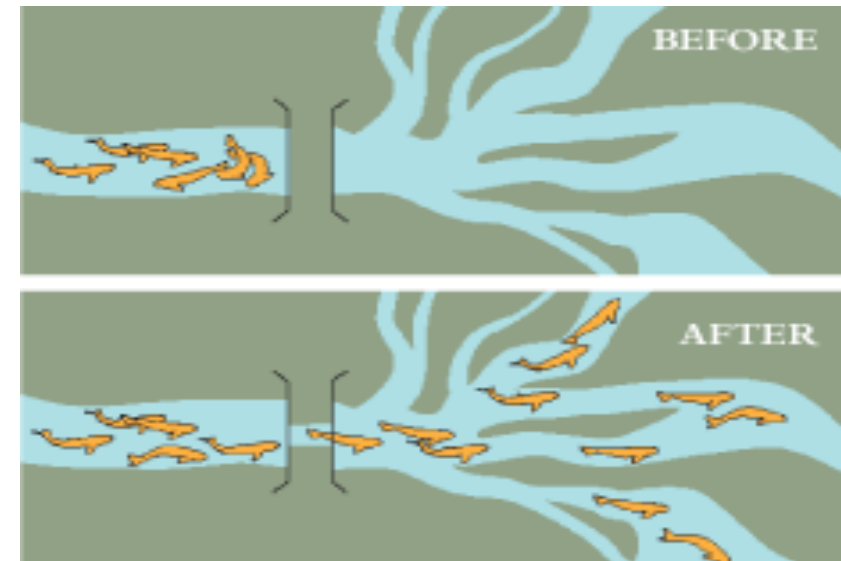
Reconnecting Habitat For Community and Ecosystem Resiliency



Communities need safe and resilient road infrastructure.



Trout and other aquatic organisms need connected stream to thrive and to complete their life cycle.

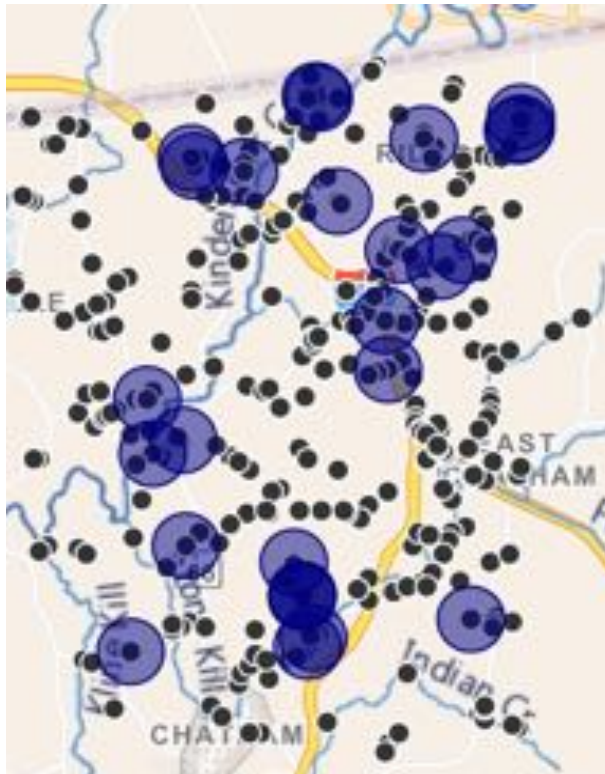


**Focus on Road Stream Crossing Management and Improvement
meets both goals!**

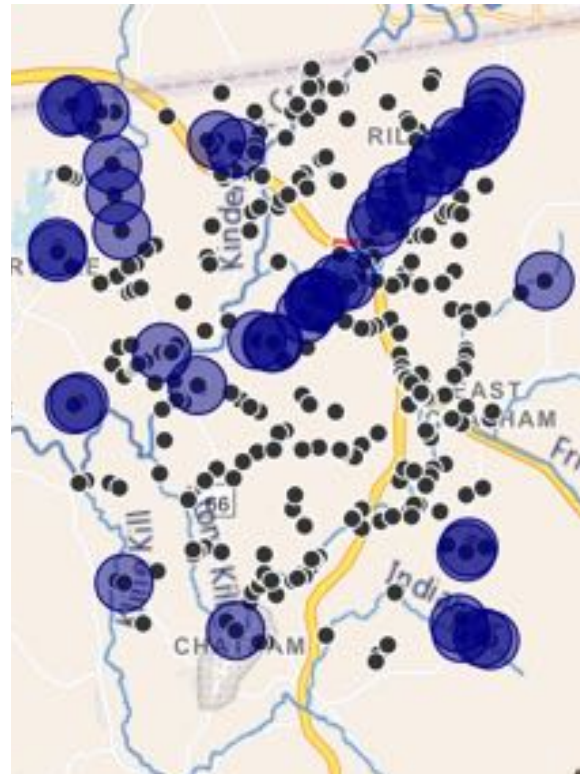
Culvert Replacement Projects in New York



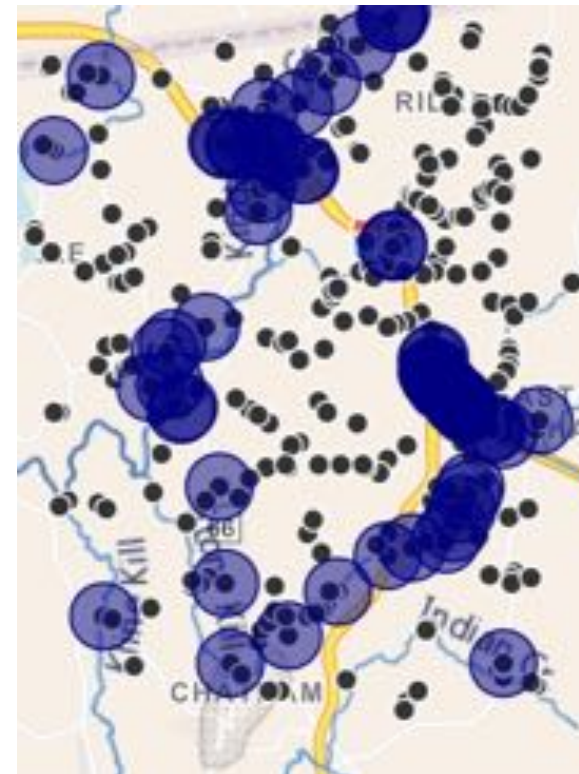
Focusing on Local Infrastructure



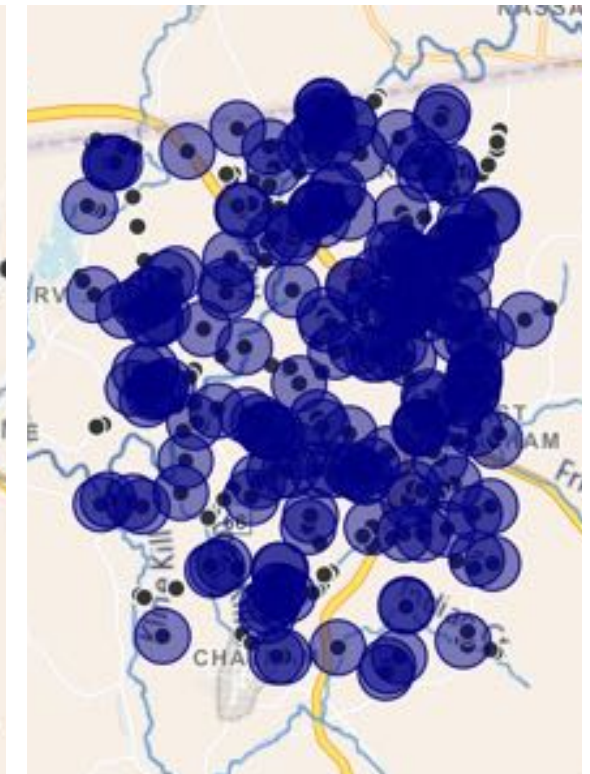
Private Ownership
8 % of Total Crossings



County Ownership
13 % of Total
Crossings



State Ownership
18 % of Total
Crossings



Town Ownership
61% of Total
Crossings

Green Brook Culvert Removal Project



2011



2018

Project Partners

Town of Chatham

NYS DEC Region 4

NYS Hudson River Estuary
Program

Cornell Cooperative Extension
Greene and Columbia County

Housatonic Valley Assoc

Woidt Engineering

Mitchison and Sons

Private Landowners

Green Brook Culvert Removal Project



- Initial Meeting - Late winter 2015
- Conceptual Design Development
- Fundraising – Secured WQIP Funding!
- Final Design and Town Approval
- Permitting
- Bid Process and Contractor Hire
- Project Construction – August 2018
- Revegetation – October 2018
- Monitoring





Green Brook Culvert Removal Project



Before



After

Working with Local Towns



The Town Reality

Lots of Road Miles

Lots of Road Stream Crossings

Not a Lot of Budget for Replacements

Every Town is different!

How we can Help

Collect and Digest the Data

Help Identify Priorities

Develop Road Stream Crossing Plans to help for Future Planning

Work Closely with the Towns to determine how we can help

Design Structures that are suitable to Town Budgets and Resources

Find Money to Help Implement

**GET THE BEST
PROJECTS
DONE ON THE
GROUND TO
ACHIEVE
MANY
OBJECTIVES**

Road Stream Crossing Management Planning

Survey

Model

Prioritize

Implement

Road Stream Crossing Management Planning



Survey Road Stream Crossings

Hudson River Estuary Program (HREP)

Housatonic Valley Association

Cornell Cooperative Extension of Greene/Columbia County

Model Flood Capacity

Cornell Water Resources Institute

Model Aquatic Passage

North Atlantic Aquatic Connectivity Collaborative

Prioritize Structures and Determine Highest Priorities

Project Funding

NYS DEC – Water Quality Improvement Program

HREP

New England Interstate Water Pollution Control Commission

Planning Deliverables

Highest priority crossings designed with cost estimates

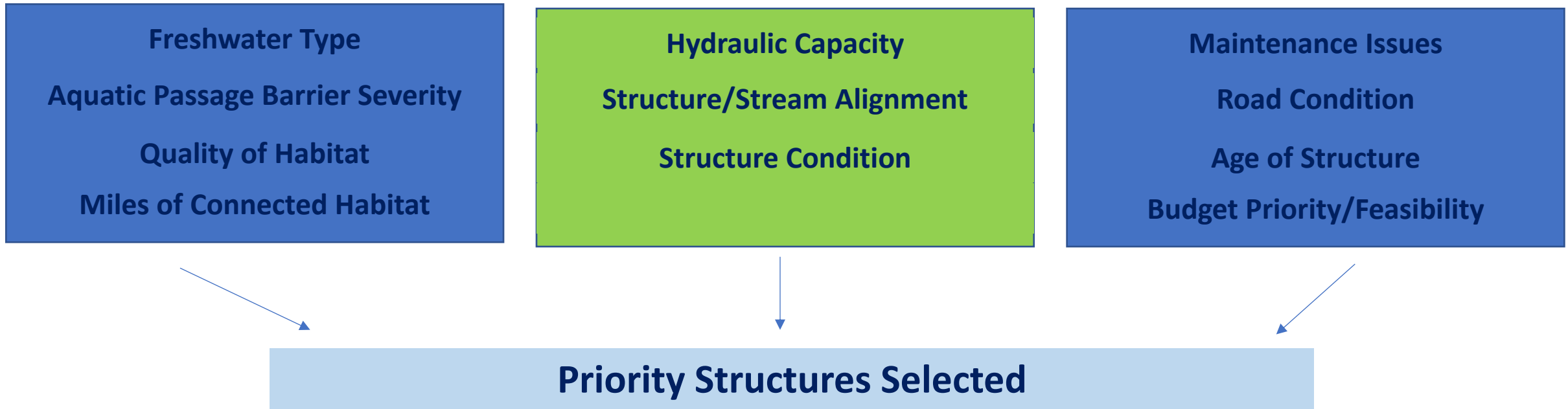
Road Stream Crossing Management Plan

Inventory Document

- Housatonic Valley Assoc
- Cornell Cooperative Ext

Online Map

Prioritizing Road Stream Crossings



3-4 Shovel Ready Projects Per Town

Hudson River Watershed

1 Town – 365 Xings

Road Stream Crossing
Inventory and Prioritization
Project Complete

4 Towns– 650 Xings

Road Stream Crossing
Inventory and Prioritization
Projects Underway

7 Towns – 590+ Xings

Town priorities for future
funding opportunities

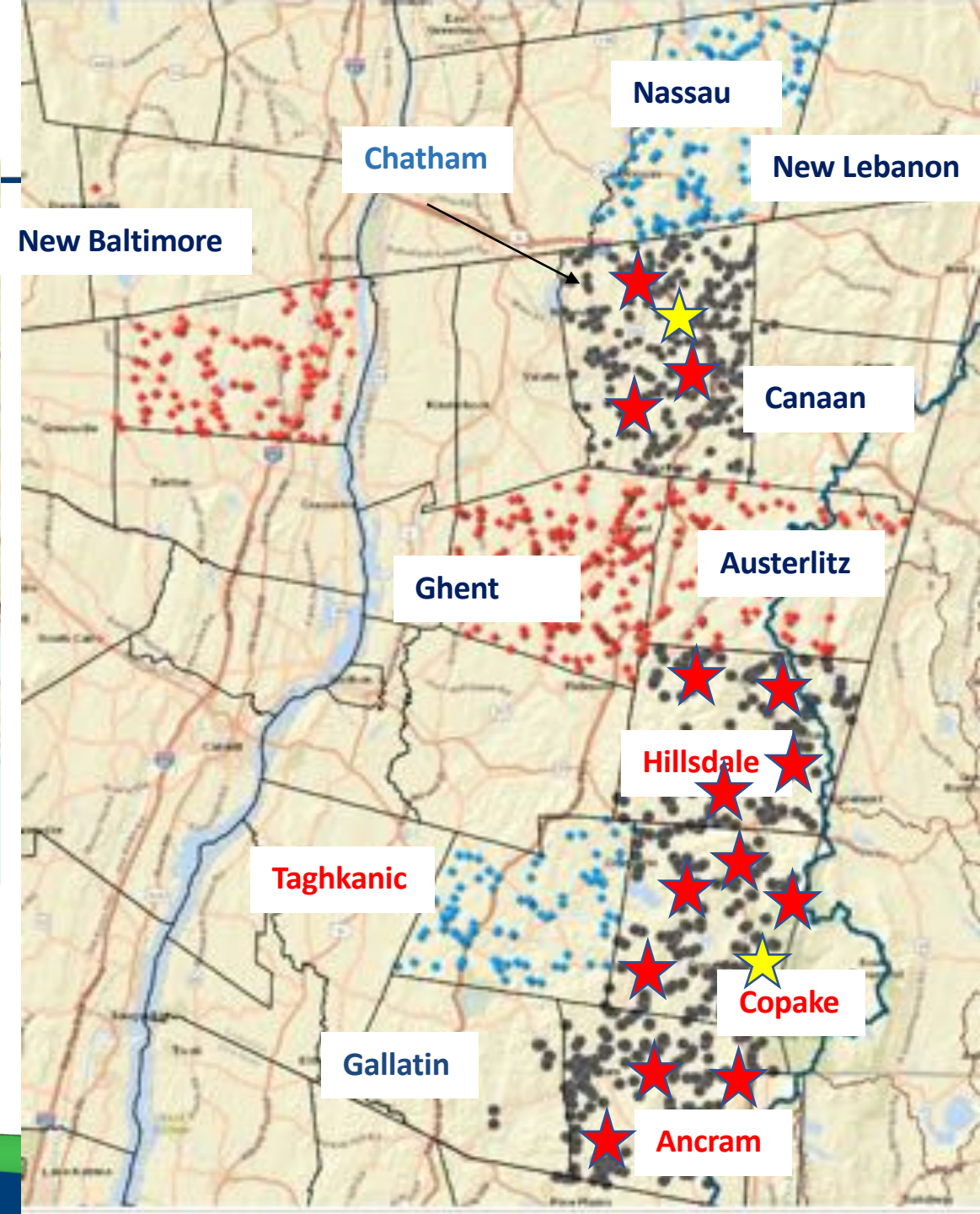
14 Priorities
Identified



2 Projects
Complete



Project
Implementation



Road Stream Crossing Management Planning



**Hudson River
Estuary Program**

A Program of the New York State Department of Environmental Conservation



Cornell University
Cooperative Extension
Columbia and Greene Counties



Cornell University
College of Agriculture and Life Sciences



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