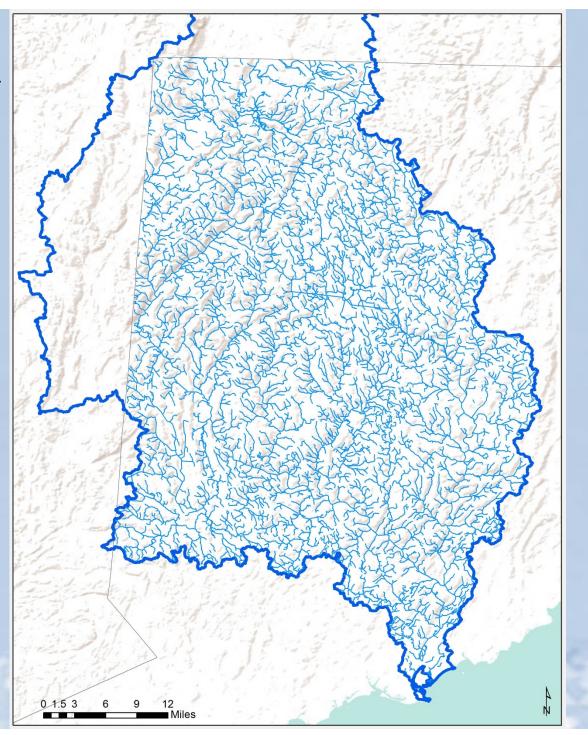
Planning for Flood Resilient and Fish Friendly Road-Stream Crossings in CT's Northwest Hills



Housatonic streams in CT

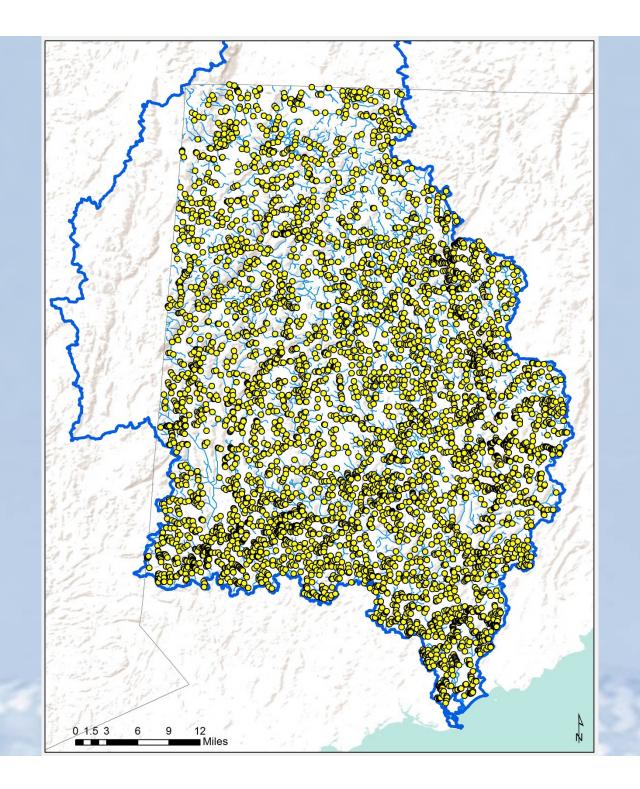
About 2100 miles



Roads and railroads About 7600 miles

Road-stream Crossings

6000 - 7000



Increased flood risk at culverts



Housy Flood Risk Modeling

Recurrence of	Number of	Percentage	
Interval Failure	Culverts		
2-Year	11	3%	
5-Year	9	3%	
10-Year	17	5%	
25-Year	49	16%	
50-Year	33	10%	
100-Year	23	7%	
200-Year	26	8%	
Passing	147	47%	

Of 315 assessed culverts, 86 failing in the 25-year flood or smaller

29%

Housy Barrier Status

Barrier Evaluation	Number of Culverts	Percentage
Severe barrier	154	24%
Significant barrier	59	9%
Moderate barrier	149	24%
Minor barrier	205	33%
Insignificant barrier	62	10%
No barrier (full passage)	0	0%

Of 629 assessed culverts, 362 are Moderate or worse barriers

58%

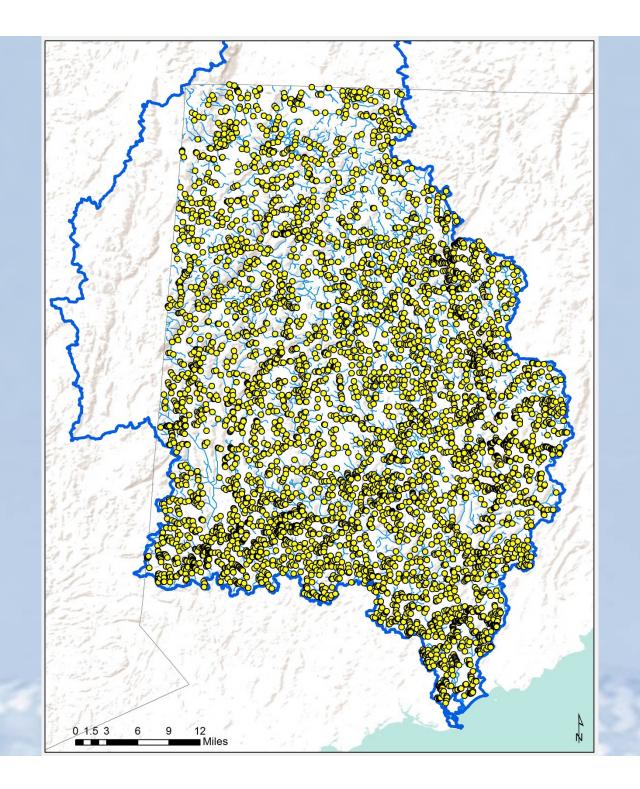
Importance of Movement

> Increasing water temperatures, contracting cold-water habitat



Road-stream Crossings

6000 - 7000



Strategically address climate threats

- Identify replacement projects that both reduce flood risk and reconnect important habitat
- Build local capacity to take advantage of every opportunity to replace problem culverts
- Combine modelling with local knowledge
- Encourage widespread adoption of Best Management Practices

- Comprehensive field assessment
- Evaluate flood risk and conservation value of replacement



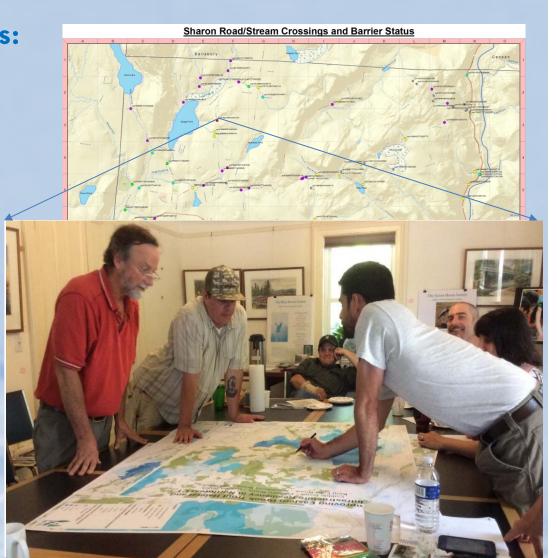
Create Road-Stream Crossing Inventory documents:

- Detailed mapping
- Field data, photos etc.
- Results of UCONN flood risk analysis
- Results of barrier evaluation

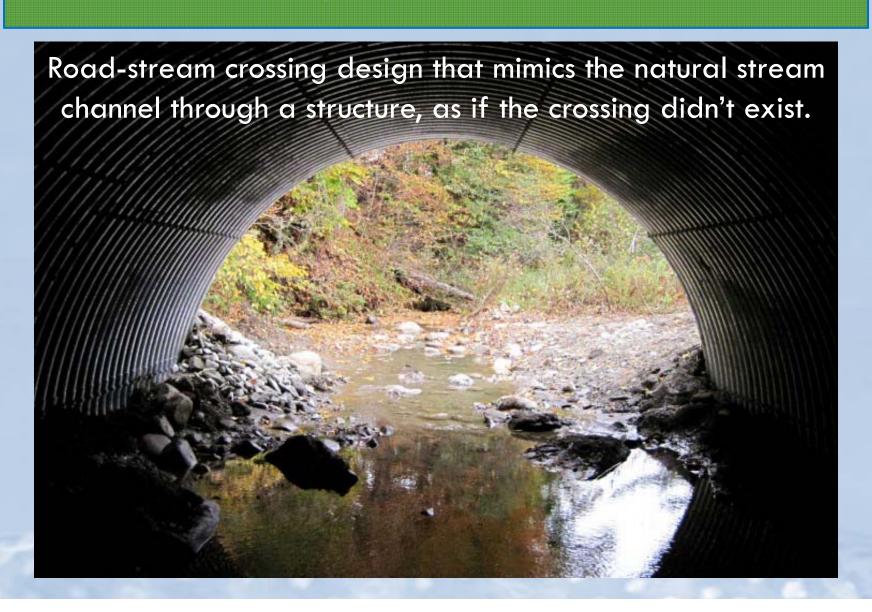


Use Inventory to set priorities:

- Flood risk
- Conservation value
- Maintenance need



Prelim. Designs: Stream Simulation



Combine:

- Inventory
- Collaborative Prioritization
- Conceptual designs
- Supporting information
- Adopt as part of Hazard Mitigation Plan



TOWN OF SHARON HAZARD MITIGATION PLAN

MARCH 2014 MMI #3843-04

Prepared for the:

TOWN OF SHARON, CONNECTICUT

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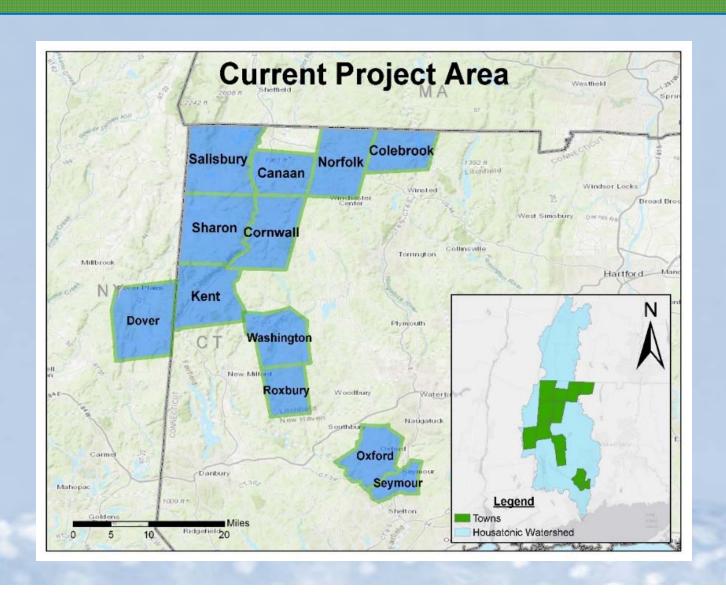
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Project Status



Regional results

