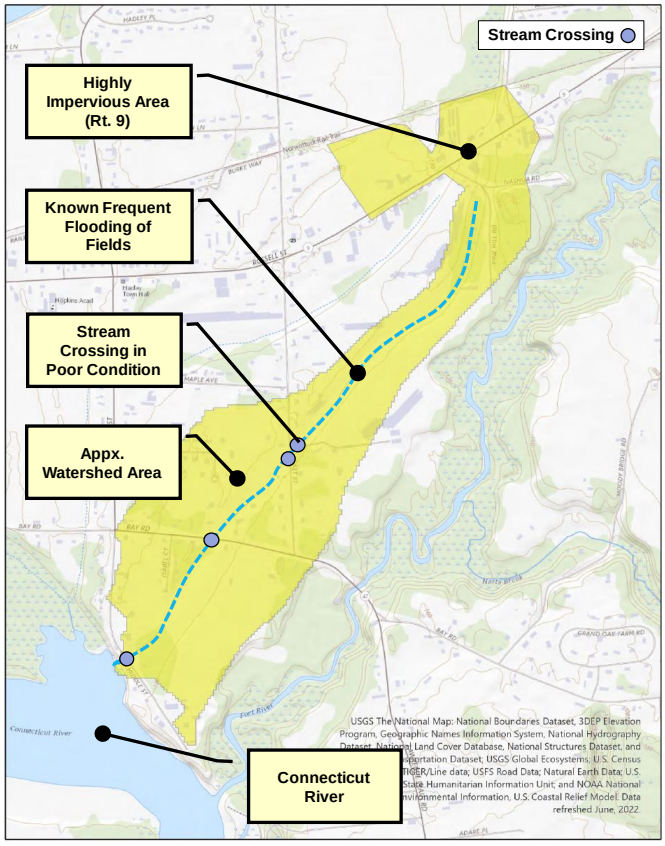
Hadley Watershed-Wide Flood Resiliency Project

Project Information

Agricultural fields and roads throughout the Town of Hadley are routinely impacted by flooding due to undersized culverts and drainage channels that receive runoff from highly impervious upstream areas. Of particular concern is a stream reach that conveys runoff from Russell Street (Rt. 9) to the Connecticut River (see **Figure 1**). The stream reach floods several times per year (i.e., almost any time it rains) from two (2) undersized culverts at East Street.



The Town of Hadley was awarded a grant through the Municipal Vulnerability Preparedness (MVP) Program to improve resiliency in the stream reach. Expected outcomes of the grant include:

- Perform targeted public involvement and community engagement activities.
- Develop a prioritized action plan to reduce flood risk throughout the watershed through **nature-based solutions** and stream continuity improvements.
- Perform design and permitting of stream continuity improvements of two undersized culverts along the stream reach.
- Design and perform construction of one **nature-based solution** within the watershed (e.g., buffer plantings, bioretention cell, etc.).

How Can I get Involved in this Grant Project?

There will be several opportunities for stakeholder engagement and feedback throughout this project. Some ways to get started are listed below:

1) Attend "Drop-In' hours at the Town Department of Public Works at 230 Middle Street on the 1st Friday each month from 8:00 am – 9:00 am.
2) Call the Project Hotline between the hours of 9:00 am – 10:00 am.
3) Attend a stakeholder meeting to discuss preliminary project findings and provide feedback in the Spring of 2024.

Hadley Watershed – Wide Flood Resiliency Project

PROJECT UPDATES:

The Town of Hadley was awarded a grant through the Municipal Vulnerability Preparedness (MVP) Program to improve flood resiliency along a stream reach near East Street and Bay Road. The following project activities occurred in:

April

(1) completed draft design plans and permitting documents for the proposed stream continuity and habitat improvements at East Street, and (2) completed design plans for the proposed bioretention area at the DPW Facility.

March

(1) continued drafting design plans and preparing permitting documents for the proposed stream continuity and habitat improvements at East Street, and (2) continued drafting design plans for the proposed bioretention area at the DPW Facility.

February

1) finalized the recommended structure analysis for the East Street Culverts, (2) began drafting design plans for the proposed stream continuity and habitat improvements at East Street, (3) completed site survey and existing conditions plan for the proposed bioretention area at the DPW Facility, and (4) began drafting design plans for the proposed bioretention area at the DPW Facility.

January

1) prepared descriptions, cost estimates, and priority ranking for identified potential improvement projects within the watershed and 2) finalized geotechnical and hydraulic/hydrologic analysis of the East Street culverts, and (3) progressed with structure selection alternatives analysis.

December

1) identified potential improvement projects within the watershed, 2) utilized the watershed model to simulate potential improvements projects, and 3) continued performing geotechnical and hydraulic/hydrologic analysis of the East Street culverts to determine recommended replacement structures.

November

1) developed a watershed model and identified/quantified areas of flooding concern; and 2) continued performing geotechnical and hydraulic/hydrologic analysis of the East Street culverts to determine recommended replacement structures.