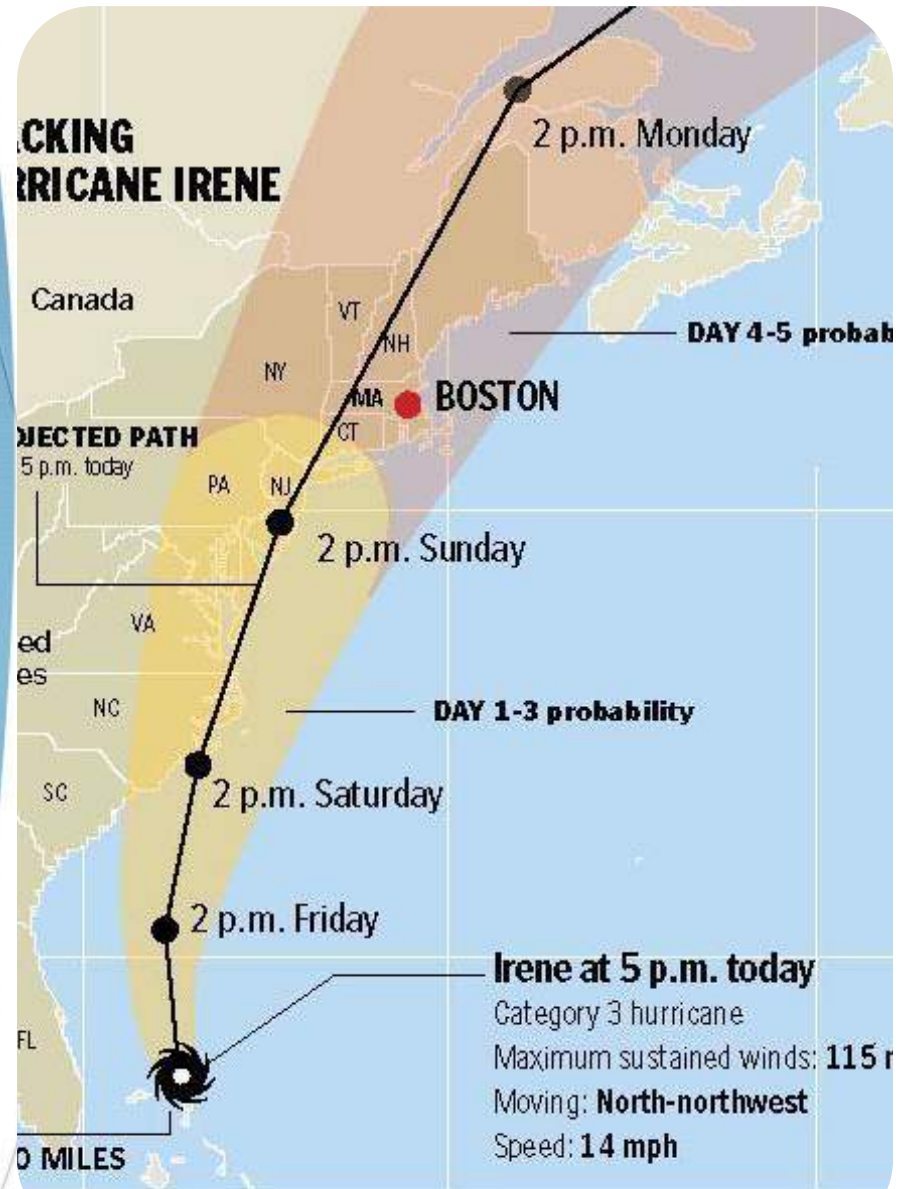


VECAN Conference 12/6/14

Waterbury, Vermont:
A Case Study in Local
Flood Resiliency Projects

On August 28, 2011 Tropical Storm Irene, 290 miles wide, swept up the East Coast and across Vermont dropping up to 11 inches of water.



Source: National Hurricane Center



I was the chair of the
select board....

...and led our long-
term recovery efforts



In November 2011, three months after Tropical Storm Irene, Waterbury initiated planning for Long Term Community Recovery.



Waterbury received support from FEMA to conduct a long-term planning process, available to any community in this self-help guide.

Stockton Town Square, destroyed by a May 2003 tornado.

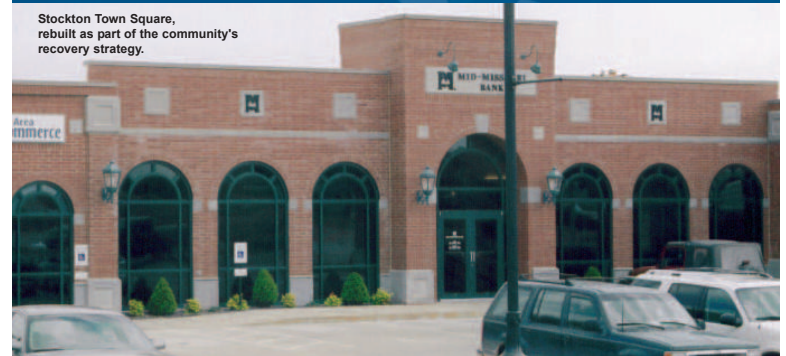


Long-Term Community Recovery Planning Process

A Self-Help Guide

December 2005

Stockton Town Square, rebuilt as part of the community's recovery strategy.



Waterbury LTCR Projects 2012

COMMUNITY PLANNING and CAPACITY BUILDING

Construct New Municipal Complex	2
Utilization Study for Municipal Building (51 South Main)	3
Village Police Facilities	4
Assistant Municipal Planner	5

ECONOMIC DEVELOPMENT

Business Resource Center	6
Community Image Building	7
Food Systems Development	8
Waterbury Arts Center	9

ENERGY, EFFICIENCY, and TRANSPORTATION

Bicycle/Pedestrian System, Welcome Center, and Wayfinding	10
Center for Resilient Technology and Development	11
Waterbury Community Energy	12
Create Sustainable Transportation System	13

HOUSING and HUMAN SERVICES

Coordination of Health Services and Childcare/Preschool Relocation	14
Affordable Housing Development	15
ReBuild Waterbury	16

INFRASTRUCTURE and FLOOD MITIGATION

Emergency Power Program	17
Flood Proof Main Sewerage Pump Station	18
Waterbury Village Flood Study	19
Dac Rowe Flood-Proofing and Recreation Enhancement	20

PARKS and RECREATION

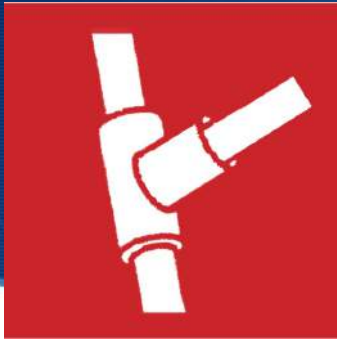
Director of Recreation for Waterbury	21
Parks and Recreation Master Plan	22
Little River-Village Connector Trail	23

The final plan included 22 projects in six sector areas.

Each project had its own project champion and institutional partner.

Community members voted on the projects and the select board and trustees ranked them.

	Low Flood Recovery Value	Medium Flood Recovery Value	High Flood Recovery Value
High Community Interest	Little River Connector Trail (76)	Bike/Ped Wayfinding Trail (111) Arts Center (77)	New muni offices & library (162) Housing (140) Business Resource Ctr (90) Flood study (83) Sewer pump station (77) 51 So. Main Street Village police hqtrs.
Medium Community Interest	Food System Dvlp (68) Dac Rowe Field (54)	Image Building (60) Distributed Energy (58) Ctr for Resilient Tech (54)	Emergency Generators (56)
Low Community Interest	Transportation (45) Recreation Director (34) Recreation Master Plan (24)	Municipal Staff/Econ Dvlp (28)	Human Servs. & Childcare (44)

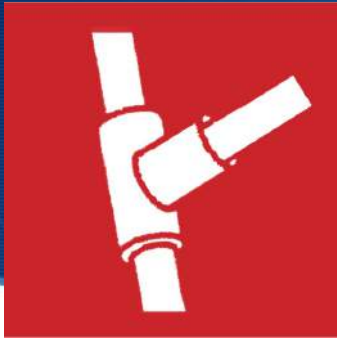


Emergency Power Program

The Town and Village obtained:

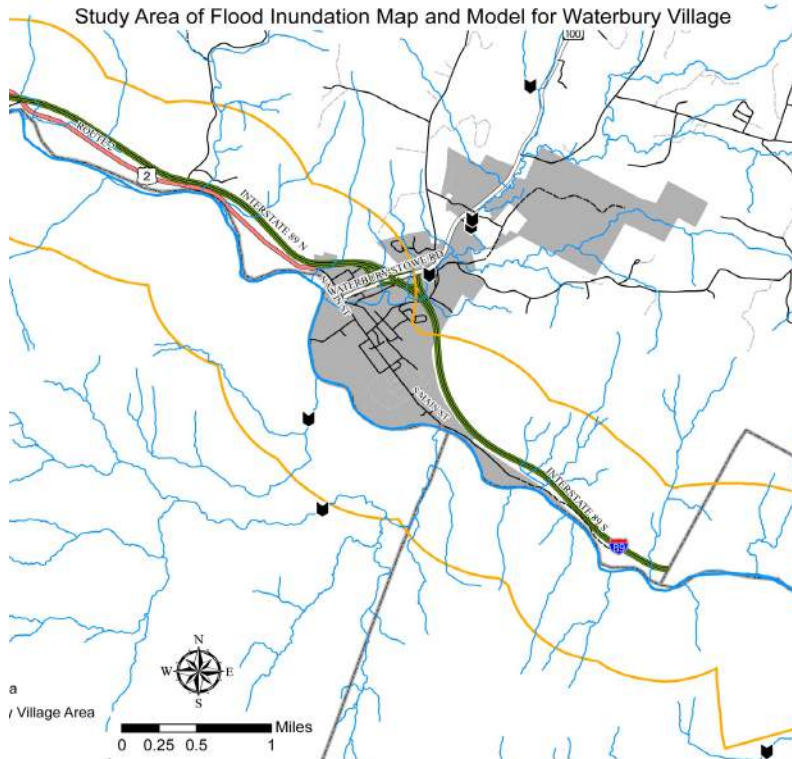


- ◆ \$46,000 HMGP grant for emergency shelter generator (\$46,000 match from town budget)
- ◆ \$115,000 State CDBG-DR to flood proof wastewater pump station

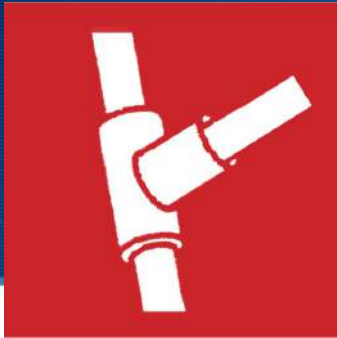


Flood studies

The Regional Planning Commission helped with:



- ◆ \$30,000 flood plain study funded by Town, State and utility (3-way split)
- ◆ \$3 million HMGP application to connect flood plains
- ◆ \$100,000 LiDAR mapping study funded by State CDBG-DR



Flood studies

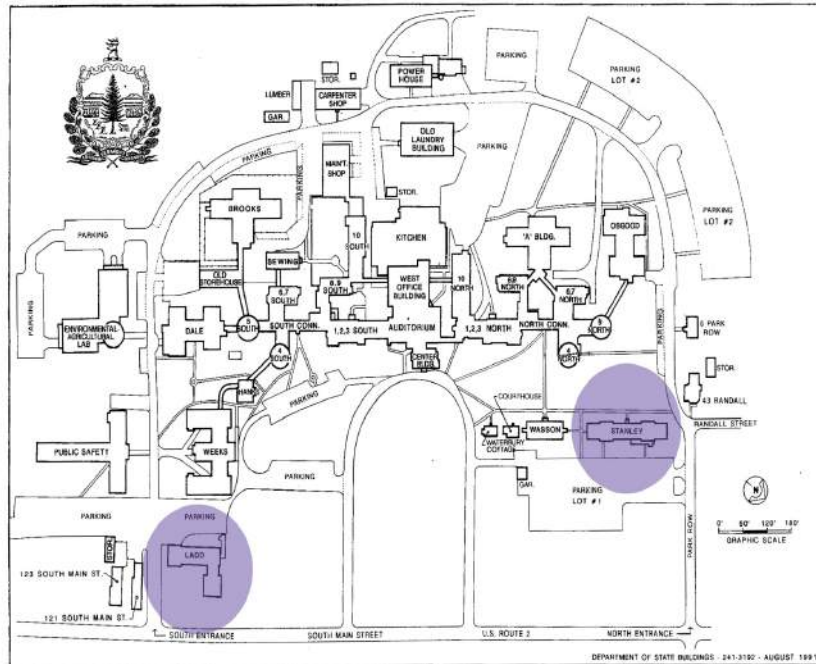
Town, with support of regional planning commission, sought:

- ◆ \$500,000 (est.) HMGP pilot program to elevate 5 residences in flood plain, submitted by town in November 2013. Still waiting for response.
- ◆ \$30,000 Vermont Ecosystem Restoration Grant to map the fluvial erosion hazard zone.
- ◆ Lake Champlain Basin Grant to study cost-effectiveness of flood resiliency, won by local consultant Milone & MacBroom.





Affordable Housing Development



Central Vermont Community Land Trust championed a 27-unit affordable housing project in building formerly part of State Office Complex.

- \$650,000 VHCB
- \$400,000 Local money
- \$950,000 CDBG-DR grant
- Federal tax credits



Childcare Center



Waterbury's Hunger Mountain Childcare Center led a project to re-develop property at State Office Complex that it had formerly leased.

- \$450,000 State CDBG-DR grant



Construct New Municipal Complex

Voters approved:



- ◆ \$4 million bond vote passed in March 2014 (after a failed vote in June 2013) for new municipal offices and expanded library.
- ◆ \$1 million State CDBG-DR grant will help supplement these funds.



Recreation Programs



Town advocated for recreation and transportation alternatives:

- ◆ \$18,000 town budget for part-time recreation director.
- ◆ \$30,000 State CDBG-DR grant to study feasibility of mountain bike connection trail.



Assistant Municipal Planner



To expand capacity, the town also sought:

- ◆ Long term recovery director, funded by \$118,000 EDA grant (18 month duration).
- ◆ VISTA volunteer who could assist town planner with grant applications and flood mapping projects. (3 year duration, local cost \$7,000 per year).

Irene became an opportunity for improvement:

- ◆ Smart growth in downtown areas
- ◆ Transportation alternatives (biking, walking)
- ◆ Emergency preparedness
- ◆ Floodplain connectivity