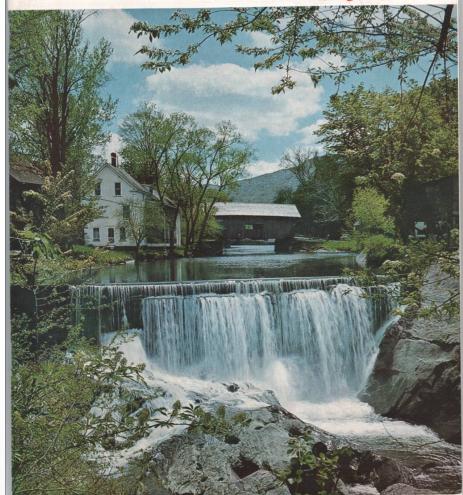


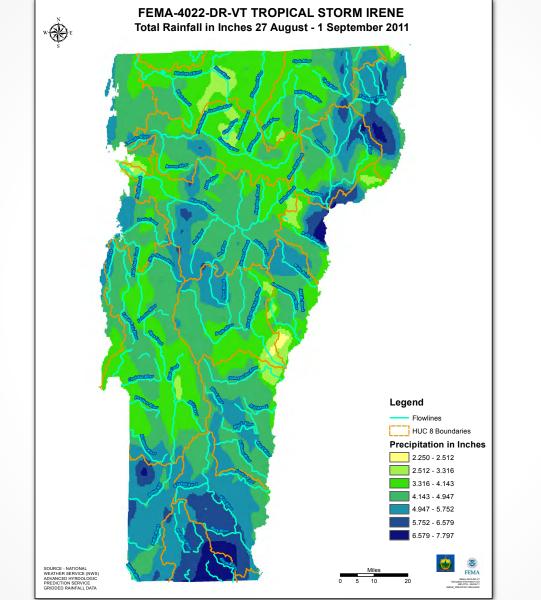


VERMONT (156 VOLUME XIV · NUMBER 3 · 50 CENTS SPRING 1960













MASTER'S THESIS 60 ECTS Social-Ecological Resilience for Sustainable Development Master's Program 2012/14 120 ECTS



Exploring pathways to transformations in post-disasterevent communities

A case study on the Mad River Valley, Vermont, USA

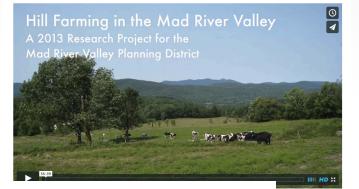


Vermont Downtown Action Team Report August 1, 2014

Waitsfield, Vermont







Disaster Recovery and Long-Term Resilience Planning in Vermont
U.S. EPA Smart Growth Implementation Assistance Project
Policy Memo for the Mad River Valley
August 2013



ey

r Valley's hill farms. This produced by Meg



Credits: [Top] Richard Amore, Courtesy of the State of Vermont; (Bottom) Lars Gange & Mansfield Heliflight.

Caption (Clockwise from Top Left): Downtown Waltsfield, Vermont; Moretown Town Hall; Flood damage in Waltsfield,

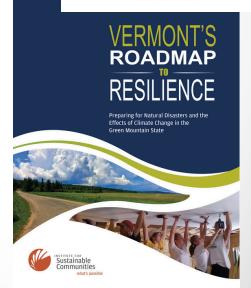
Vermont from Tropical Storm incredit Services (Services).

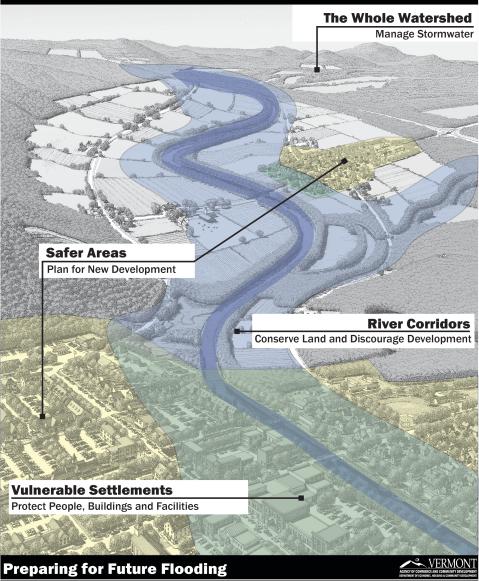


Vermont Downtown Action Team Report August 1, 2014

Warren, Vermont







Planning for Flood Recovery & Long-Term Resilience in Vermont: Smart Growth Approaches for Disaster-Resilient Communities www.epa.gov/smartgrowth

FLOOD RESILIENCE CHECKLIST

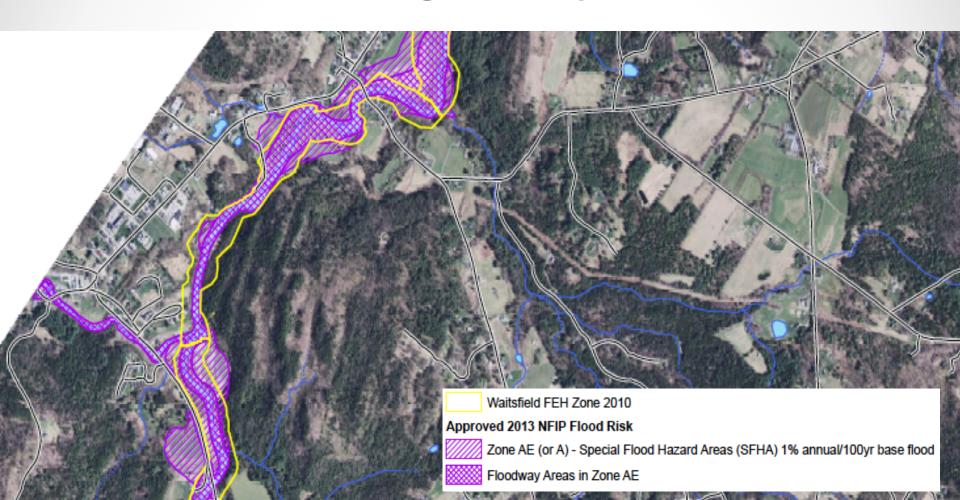
Overall Strategies to Enhance Flood Resilience (Learn more in Section 2, pp. 9-11 of Planning for Flood Recovery and Long-Term Resilience in Vermont)

a. Does the comprehensive plan cross-reference the local Hazard Mitigation Plan and any disaster recovery plans? b. Does the comprehensive plan identify flood- and erosion-prone areas, including river corridor and fluvial erosion hazard areas, if applicable? FEH suggested but no map included. c. Did the local government emergency response personnel, flood plain manager, and department of public works participate in developing/updating the comprehensive plan? 2. Does the community have a local Hazard Mitigation Plan approved by the Federal Emergency Management Agency (FEMA) and the state emergency management agency? Updated 2013 a. Does the Hazard Mitigation Plan cross-reference the local comprehensive plan? b. Was the local government planner or zoning administrator involved in developing/updating the Hazard Mitigation Plan? c. Were groups such as local businesses, schools, hospitals/medical facilities, agricultural landowners, and others who could be affected by floods involved in the Hazard Mitigation Plan drafting process? d. Were other local governments in the watershed involved to coordinate responses and strategies? e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure	1.	Does the community's comprehensive plan have a hazard element or flood planning section? <i>April 2011 Town Plan (pre-Irene)</i>	Yes	■ No
areas, including river corridor and fluvial erosion hazard areas, if applicable? FEH suggested but no map included. c. Did the local government emergency response personnel, flood plain manager, and department of public works participate in developing/updating the comprehensive plan? 2. Does the community have a local Hazard Mitigation Plan approved by the Federal Emergency Management Agency (FEMA) and the state emergency management agency? Updated 2013 a. Does the Hazard Mitigation Plan cross-reference the local comprehensive plan? b. Was the local government planner or zoning administrator involved in developing/updating the Hazard Mitigation Plan? c. Were groups such as local businesses, schools, hospitals/medical facilities, agricultural landowners, and others who could be affected by floods involved in the Hazard Mitigation Plan drafting process? d. Were other local governments in the watershed involved to coordinate responses and strategies? e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan incourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan incourage using green infrastructure application process for post-disaster Hazard Mitigation Grant Program acquisitions?		·	Yes	■ No
plain manager, and department of public works participate in developing/updating the comprehensive plan? 2. Does the community have a local Hazard Mitigation Plan approved by the Federal Emergency Management Agency (FEMA) and the state emergency management agency? *Updated 2013* a. Does the Hazard Mitigation Plan cross-reference the local comprehensive plan? b. Was the local government planner or zoning administrator involved in developing/updating the Hazard Mitigation Plan? c. Were groups such as local businesses, schools, hospitals/medical facilities, agricultural landowners, and others who could be affected by floods involved in the Hazard Mitigation Plan drafting process? d. Were other local governments in the watershed involved to coordinate responses and strategies? e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?		areas, including river corridor and fluvial erosion hazard areas,	■ Yes	□No
the Federal Emergency Management Agency (FEMA) and the state emergency management agency? **Updated 2013** a. Does the Hazard Mitigation Plan cross-reference the local comprehensive plan?* b. Was the local government planner or zoning administrator involved in developing/updating the Hazard Mitigation Plan?* c. Were groups such as local businesses, schools, hospitals/medical facilities, agricultural landowners, and others who could be affected by floods involved in the Hazard Mitigation Plan drafting process?* d. Were other local governments in the watershed involved to coordinate responses and strategies?* e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?		plain manager, and department of public works participate in	Yes	■ No
b. Was the local government planner or zoning administrator involved in developing/updating the Hazard Mitigation Plan? c. Were groups such as local businesses, schools, hospitals/medical facilities, agricultural landowners, and others who could be affected by floods involved in the Hazard Mitigation Plan drafting process? d. Were other local governments in the watershed involved to coordinate responses and strategies? e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?	2.	the Federal Emergency Management Agency (FEMA) and the state	■ Yes	□No
in developing/updating the Hazard Mitigation Plan? c. Were groups such as local businesses, schools, hospitals/medical facilities, agricultural landowners, and others who could be affected by floods involved in the Hazard Mitigation Plan drafting process? d. Were other local governments in the watershed involved to coordinate responses and strategies? e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?			Yes	☐ No
facilities, agricultural landowners, and others who could be affected by floods involved in the Hazard Mitigation Plan drafting process? d. Were other local governments in the watershed involved to coordinate responses and strategies? e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?			Yes	☐ No
e. Does the Hazard Mitigation Plan emphasize non-structural predisaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions?		facilities, agricultural landowners, and others who could be affected	Yes	■ No
disaster mitigation measures such as acquiring flood-prone lands and adopting No Adverse Impact flood plain regulations? f. Does the Hazard Mitigation Plan encourage using green infrastructure techniques to help prevent flooding? g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions? 3. Do other community plans (e.g., open space or parks plans) require or		•	Yes	☐ No
g. Does the Hazard Mitigation Plan identify projects that could be included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions? 3. Do other community plans (e.g., open space or parks plans) require or		disaster mitigation measures such as acquiring flood-prone lands	Yes	☐ No
included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant Program acquisitions? 3. Do other community plans (e.g., open space or parks plans) require or			Yes	■ No
,, , , , , , , , , , , , , , , , , , ,		included in pre-disaster grant applications and does it expedite the application process for post-disaster Hazard Mitigation Grant	Yes	□ No
	3.	,, , , , , , , , , , , , , , , , , , , ,	Yes	☐ No

July 2014

River Corridors:

Conserve Land & Discourage Development



Vulnerable Settlements:

Protect People, Buildings & Facilities

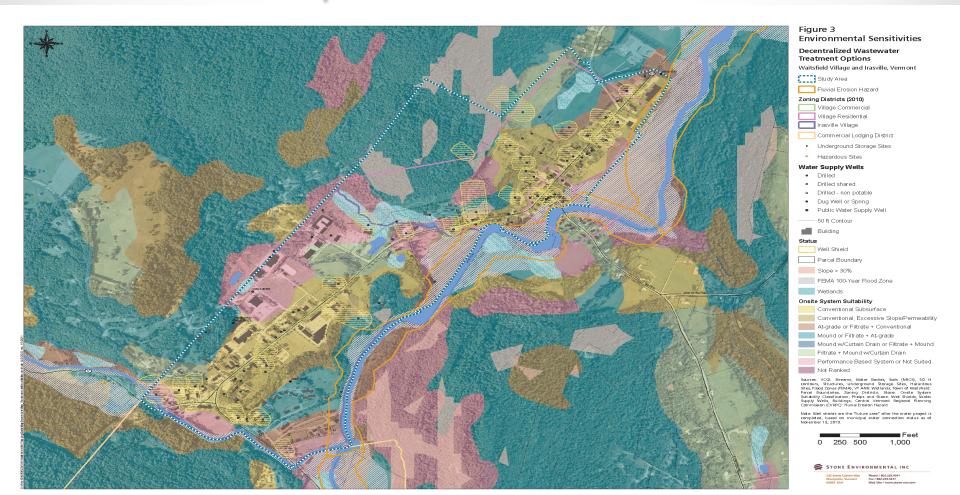


Vulnerable Settlements:

Protect People, Buildings & Facilities



Safer Areas: Plan for New Development



Vulnerable Settlements:

Protect People, Buildings & Facilities



Master Development Plan for the Irasville Growth Center A Vision for a New Village

Prepared for:

The Town of Waitsfield, Vermont

and the

Mad River Valley Planning District

September 2002



Prepared by:

Lamoureux and Dickinson Consulting Engineers, Inc.

Essex Junction, Vermont

The Office of Robert A. White, ASLA Norwich, Vermont

The Whole Watershed:

Manage Stormwater (Slow it, Spread it, Sink it)



The Whole Watershed:

Manage Stormwater (Slow it, Spread it, Sink it)





THANK YOU

Joshua Schwartz MRV Planning District joshua@mrvpd.org 802.595.0890

