

Strategy	Actions	Source	Category	Hazard(s) Addressed	Entity	Potential Resources	Timeline	Impact	Feasibility
GOAL: Enhance the resilience of our built environment - our communities, infrastructure, buildings, and cultural assets.									
Locate new development outside of hazardous areas	Develop a mechanism for tracking new structural development in the river corridor so development patterns can be tracked over time.	WG June 2017	Data Gap	Inundation; Fluvial Erosion	ANR, UVM, VCGI			High	Medium
	Research reasonable steps developers can take to site new structural development outside of hazard-prone areas when the State is involved in funding, consistent with State river corridor standards and land use goals.	Dec WG / SHMP 2013 Priority (1.2.1, New 4.2)	Data Gap	Inundation; Fluvial Erosion; Landslide	ANR, AOA, VEM, VTrans			High	High
Develop resilient design and construction standards	Develop sample building standards for resilient design and construction (for buildings, construction sites, transportation infrastructure, etc.).	Expert Review	Technical Assistance	All Hazards	ANR, VTrans, RPCs, Norwich	Existing State Resources		High	Medium
	Research how applicants can demonstrate they have taken reasonable steps to incorporate resilient design and construction in hazard-prone areas when the State is involved in funding, consistent with the objectives of the funding source.	Expert Review	Data Gap	All Hazards	All State Agencies	Existing State Resources		High	Medium
Incorporate flood resilience in transportation planning, engineering and programming	Secure funding to expand the VTrans Methods and Tool for Transportation Resilience application (as developed by the 2018 SHMP subgrant) to all watersheds in the state.	Aug 2017 WG	Data Gap	Inundation; Fluvial Erosion	VTrans, VEM, RPCs	Federal Highway (\$50,000/watershed)	2019	High	High
Protect cultural and historic resources	Improve communications between mitigation project work and historic preservation review to allow for more rapid approval of shovel-ready projects.	Dec WG	Partnership/Coordination	All Hazards	SHPO, VEM, ANR, VTrans, FEMA		Ongoing	High	High
Establish a statewide conservation and buyout program	Establish a working group to design a robust cross-sector buyout program, considering funding, ownership, use restrictions, incentives, stewardship, prioritization.	SHMP 2013 Priority (RM #91)	Partnership/Coordination	Inundation; Fluvial Erosion; Landslide	VEM, ANR, VLCT, VRC, VHCB, ACCD, CLF			High	High
Improve dam resilience	Utilize updated Dam Inventory to support the expansion of the Dam Removal Screening Tool beyond Champlain Basin.	Expert Review	Data Gap	Inundation; Fluvial Erosion	ANR, VEM, TNC, VNRC, Dam Task Force	The Nature Conservancy		High	High
GOAL: Protect, restore and enhance Vermont's natural resources to promote healthy, resilient ecosystems.									
Promote land management standards for State and private lands	Work with land conservation organizations to include river corridor and floodplain protection provisions, and/or headwater storage in conservation easements.	Expert Review	Partnership/Coordination	Inundation; Fluvial Erosion	ANR, VHCB, VRC, VLT			High	High
Improve headwater storage	Develop an inventory of critical headwater storage areas that would result in a measurable abatement of flooding.	WG June 2017	Data Gap	Inundation; Fluvial Erosion	ANR, USGS, TNC, VLT, UVM, VRC			High	High
	Complete a pilot project in a strategic watershed, using the above inventory, to prioritize land conservation and determine the cost of averted flood damage.	Focus Group	Data Gap	Inundation; Fluvial Erosion	ANR, USGS, TNC, VLT, UVM, VRC			High	High
Improve flood resilience of agricultural lands	Create a working group to develop a coordinated assistance strategy (funding mechanisms, technical support, directory of available resources) to further improve the resilience of agricultural lands and their contribution to flood resilience.	SHMP 2013 (RM #31, #33, #88)	Program Development	All Hazards	AAFM, ANR, UVM Extension, NRCS, VLT, High Meadows, NRCDS, VRC			High	High
Connect water quality, flood resilience and native habitat connectivity through co-benefits	Create a "Reconnect Vermont Rivers" initiative (or similar state planning, prioritization, and tracking mechanism) to enhance the funding eligibility and incentives for flood resilience, water quality, and habitat projects as co-benefits.	Expert Review	Partnership/Coordination	Inundation; Fluvial Erosion	ANR, TNC, AAFM, WUV, VTrans, VLT, VRC		Ongoing	High	High
	Develop hydraulic and stream power models for a range of flood frequencies to analyze and define valley areas supporting essential floodplains and river corridor functions that would increase the storage of flood flows, sediments, and nutrients.	Expert Review	Technical Assistance and data gap	Inundation; Fluvial Erosion	ANR, UVM, TNC, VLT, USGS		Ongoing	High	High

Strategy	Actions	Source	Category	Hazard(s) Addressed	Entity	Potential Resources	Timeline	Impact	Feasibility
GOAL: Develop and implement plans and policies that create resilient natural systems, built environments and communities.									
Ensure state programs support hazard mitigation goals	Audit all state/federal funding/technical assistance programs to determine the degree to which they directly or indirectly help or hinder the ability of the State to achieve Vermont's State Hazard Mitigation Plan goals.	Expert Review / SHMP 2013 (RM #75)	Data Gap	All Hazards	AOA, ANR, VEM, ACCD, AAFM, CLF			High	High
Improve incentives for local hazard mitigation planning and action	Convene a working group of state agencies, academic partners, regional and local stakeholders to review the effectiveness of existing Emergency Relief & Assistance Fund (ERAF) criteria and river corridor bylaws.	Dec WG / SHMP 2013 (RM #43)	Regulation/ Policy	Inundation; Fluvial Erosion	VEM, ANR, VTrans, UVM, RPCs			High	High
Develop solutions to fund hazard mitigation	Convene state, federal and private funders annually to identify ways to better leverage existing funding, fill funding gaps, increase funder alignment, and strengthen funding criteria that relate to hazard mitigation and climate adaptation.	Focus Group	Partnership/ Coordination	All Hazards	VEM, ANR, VTrans, USDA RD, High Meadows, VHCB, Resilient VT, FHWA, FEMA	Existing State and Nonprofit Sources	Annual	High	High
GOAL: Create a common understanding of - and coordinated approach to - mitigation planning and action.									
Improve local leaders' understanding of hazard mitigation	Develop case studies to showcase replicable pilot projects that reduce community vulnerability.	June 2017 WG meeting	Education/ Outreach	All Hazards	UVM, Norwich		Ongoing	High	High
	Develop strategic capital budgeting training and materials to incorporate mitigation and water quality projects, explain the cost of no action and include municipal liability concerns.	2017 EPC	Technical Assistance	Inundation, Fluvial Erosion, Landslide	VEM, ACCD, ANR, VTrans, TNC, VHCB, VNRC, VRC, RPCs	CDGB Planning Grant		High	High
Increase public knowledge and literacy of hazards and mitigation	Develop educational materials and dissemination strategy to increase public literacy regarding river science, floodplain function and benefits.	SHMP 2013 (RM #96)	Education/ Outreach	Inundation, Fluvial Erosion	VEM, ANR, Norwich, Watersheds United			High	High
Strengthen networks that support the resilience of vulnerable populations	Gather and disseminate vulnerable population data and analysis for incorporation into municipal and regional plans so that the needs of Vermont's vulnerable populations are clearly identified and represented.	SHMP 2013 Priority (RM #77)	Technical Assistance	All Hazards	VDH, VEM, AHS, ACCD, RPCs, CVOEO, VCGI	Existing VEM Resources		High	Medium
Coordinate hazard mitigation mapping, data and research	Coordinate State programs to promote development, sharing and maintenance of hazard-related data and mapping across a common platform.	Dec WG/ SHMP 2013 (5.1.4)	Partnership/ Coordination	All Hazards	ANR, VEM, VTrans, ADS, ACCD, VCGI, ArmyCorps	FEMA, Existing State Sources		High	Low
	Develop a common and consistent statewide platform for collecting local and regional response and recovery data.	Expert Review	Partnership/ Coordination	All Hazards	ANR, VEM, VTrans, ADS, ACCD	FEMA		High	High
	Support the development of an Academic Resilience Collaborative (ARC) of state agencies, academic partners, researchers, students and entities with research needs around hazard mitigation and resilience.	Dec WG	Partnership/ Coordination	All Hazards	Norwich, VEM, ANR, VTrans, High Meadows		Ongoing	High	High