

Windsor Community Flood Study
Appendix A3 - Strategies to Mitigate Flood Risk

Category	Strategy	Priority	Hazard(s) Addresses	Source	Responsible Party	Comments
Existing Action	Regulate development in SFHA per existing zoning bylaws		Flooding	AHMP, TP	ZA, DRB	
Existing Action	Participation in the National Flood Insurance Program		Flooding	AHMP		
Existing Action	Adopt most current model Road standards that include minimum standards for flood resilience		Flooding, erosion		SB	
Existing Action	Local access permits, including standards that address drainage into town ROW		Flooding, erosion			
Existing Action	Develop a stream geomorphic assessment of Mill Brook		Flooding, erosion	AHMP, TP	SWCRPC	
Existing Action	Develop a plan to address structural problems with the Ascutney Mill Dam		Flooding, dam breach		TM, SB	
Recommended Action	Advise residents about flood hazard, flood insurance, and flood protection measures.		Flood	AHMP, TP	ZA, PC	This study helps to address this action
Recommended Action	Ensure that potential purchasers of flood prone property are aware of the hazard		Flood	AHMP, TP	ZA, PC	This study helps to address this action
Recommended Action	When property is subdivided in flood prone areas, require subdivision plats to clearly show elevations and borders of flood prone areas		Flood	AHMP, TP	ZA, DRB	
Recommended Action	Maintain a library of references on flood insurance sources and flood protection in the Municipal Building		Flood	AHMP, TP	ZA	
Recommended Action	Preserve floodplain areas for conveyance and storage of floodwaters		Flood	AHMP	DRB	
Recommended Action	Regulate new development outside the floodplain to minimize adverse effects of increased stormwater runoff on the floodplain		Flood	AHMP, TP	PC, DRB	
Recommended Action	Maintain the capacities of drainage channels and detention facilities, and avoid substantial reductions in flood storage through wetland destruction		Flood	AHMP, TP	DRB	
Recommended Action	Provide flood warning to the public and develop a response plan		Flood	AHMP, TP	FD	
Recommended Action	Investigate the possibility of earning an improved CRS classification for the Town in order to decrease the adverse effects of flooding on the community and reduce flood insurance rates		Flood	AHMP, TP	ZA, PC	
Recommended Action	Make NFIP pamphlets available in Town		Flood	AHMP	ZA	
Recommended Action	Review recommendation from Mill Brook stream geomorphic assessment, when complete		Flood, erosion	AHMP	PPC, TM, Hwy	
Recommended Action	Maintain buffers of natural vegetation around surface waters. Adequate buffer widths depend on soil conditions and slope. Limited buffer maintenance activities may be necessary and should be defined in the land use regulations		Flood, erosion, water quality	TP	ZA, DRB	

Category	Strategy	Priority	Hazard(s) Addresses	Source	Responsible Party	Comments
Recommended Action	The lands along the Connecticut River that are within the Conservation future land use category are intended to only allow land uses that preserve floodplain areas for conveyance and storage of floodwaters, such as farming or outdoor recreation		Flood	TP	ZA, PC, DRB	
Recommended Action	Update the town plan and/or local All-Hazard Mitigation Plan to analyze and mitigate these erosion hazards in order to improve community resilience to flooding and erosion damages		Flood, erosion	TP	ZA, PC	

Windsor Community Flood Study
Appendix A4 - Town Plan Flood Resilience Checklist

Draft Document: Town of Windsor, Planning Commission Hearing Draft
 Draft Date: April 2014
 Reviewer: JR
 Date of Review: 4/1/2014

1.) State Planning Goal #14 [24 V.S.A. §4302]	Location in plan	Yes, Consistent	Substantial Progress¹	Not Consistent	Comments
<i>Is plan consistent with flood resilient communities goal elements?</i>					
(A.1) New development in identified flood hazard, fluvial erosion, and river corridor protection areas should be avoided.	Flood Resilience Section, Pg 47-48		X		It notes that FEH is not yet mapped, but that it will be soon, at which point the Plan/All-Hazard Mitigation Plan should be updated. It identified priority areas that should be preserved for flood storage. It requires that all development meet local flood hazard standards.
(A.2) If new development is to be built in such areas, it should not exacerbate flooding and fluvial erosion.		X			In addition to the above, it also calls for minimizing the stormwater runoff impacts from higher elevation areas, and indicates a need to avoid substantial reductions in flood storage through wetland destruction. It also calls to update the plan or All-Hazard Mitigation Plan when the Mill Brook SGA and related FEH data becomes available.
(B) The protection and restoration of floodplains and upland forested areas that attenuate and moderate flooding and fluvial erosion should be encouraged.			X		
(C) Flood emergency preparedness and response planning should be encouraged.		X			It identifies a local emergency action plan for the Ascutney Mill Dam. It also includes recommendations for public flood warnings and developing a flood response plan.
2.) Required plan element #12 [24 V.S.A. §4382]	Location in plan	Yes	Partially	No	Comments
<i>Does the plan include the required flood resilience element?</i>					
(A) Does the plan identify flood hazard and fluvial erosion hazard areas based on river corridor maps provided by the Secretary of Natural Resources and designate those areas to be protected to reduce the risk of flood damage to infrastructure and improved property?	Flood Resilience Section, Pg 47-48	X			It identifies all areas that are currently mapped. See the discussion above about future updates when FEH data becomes available.
(B) Does the plan recommend policies and strategies to protect the areas identified and designated under subdivision (12)(A)(i) of this subsection and to mitigate risks to public safety, critical infrastructure, historic structures, and municipal investments?		X			
(C) Are the flood resilience elements met in a local hazard mitigation plan approved by FEMA and referenced by the municipal plan?				X	The Town Plan meets the requirements without reference to the All-Hazard Mitigation Plan (AHMP). Windsor's AHMP is FEMA-approved and was locally adopted in 2012. The AHMP provides excellent guidance on local flood hazards. It is being updated soon at which point it could more explicitly address the new flood resilience town planning requirements.

¹ The standard of review for consistency with state planning goals is addressed in 24 V.S.A. §4302(f)(1)