

Mitigation Action Plan 2018

Work Session 3.2

2/27/2018

Hazard Mitigation Actions for WEBSTER

2012 Deferred Action

02-27 HMC: REVISE BLUE CELLS THEN CONTINUE TO PAGE 4.

2018 New Action (from Problem Statements, Other Discussion)

TASKS: Determine the 2018 Mitigation Actions, Identify Action Timeframe for Completion, Who is Responsible, Approximate Cost and How each Action should be Funded. UPDATE the Description and Evaluation of Actions in detail, Identify the Hazards Mitigated, and Describe the Affected Location in Town. Consider developing additional Mitigation Actions using the *example discussion items in red* at the bottom of each table.

Action Timeframe	Description of Timeframe	
Ongoing	Action undertaken throughout the life of the 5-year Plan	
Short Term 1-2 Years	Action should be undertaken during Years 1-2 of the Plan	
Medium Term 3-4 Years	Action should be undertaken during Years 3-4 of the Plan	
Long Term 4 to 5 Years	Action should be undertaken during Years 4-5 of the Plan	

Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Heat, Earthquake, Landslide, Dam Failure or Release, Debris, Hazardous Materials, Public

LOCAL PLANNING AND REGULATION ACTIONS

Action Number	Action	Action Timeframe	Ranking Score Relative Ease of Completion	Who is Responsible	Approximate Cost to Town	Description and Evaluation of Action	What Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#36-2012	Develop Town Road Construction and Drainage Policy	Short Term 1-2 Years		Select Board	\$0	Develop standards for proper road construction and drainage. Town participated in RSMS in 2013 and has the data, but it has not been updated since. Consider upgrading the existing Winter Maintenance Policy and developing a second policy for Road Emergency Operations: Debris removal, salting, Prioritize connecting roads during emergencies, Use Class VI roads as emergency lanes. Provides a standard policy and guidelines set to follow during emergencies. Prioritize roads to storms, what townspeople can expect for plowing and clearing.	Flood, Scouring & Erosion, Storms, Wind, Wildfire	Town Roads	Cost is for in-kind staff and volunteer labor.	N/A
#48-2012	Update the Floodplain Zoning Ordinance to Comply with NFIP Requirements to Regulate Building in the Floodplain	Long Term 4 to 5 Years		Planning Board	\$0	The Zoning Ordinance needs to be updated as new requirements to the National Flood Insurance Program are necessary for retention of NFIP participation. The Floodplain Ordinance protects life and property by regulating distance of structures to flood hazard areas, regulating elevation, clarifying definitions, regulating new structures and encroachments, stating duties of the Life Safety Officer, etc. In 2010, the Town adopted the recommended updates to the ordinance. The existing ordinance is amended with federal updates on an ongoing or as-needed basis.	Flood, Ice Jams	Floodplain	Cost is for in-kind staff and volunteer labor.	N/A

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#56-2018	Develop New Policy for Landowners and Electric Companies to Proactively Collaborate on Trimming Hazardous Trees on Scenic Roads to Reduce Storm Damage	<u>Short Term</u> 1-2 Years		Select Board, Planning Board	\$0	A new Policy is needed for electric companies to proactively seek Planning Board permission to trim hazardous trees on scenic roads on behalf of landowners who have hazardous tree problems. This will differ from the existing PB regulations regarding tree trimming on scenic roads. Some of the trees that regularly fall on powerlines during storms are located on scenic roads in Town. Power companies and landowners cannot cut back the trees on scenic roads until they fall due to protective regulation. Landowners have to wait until trees fall onto roads and powerlines because utilities obtain approval to trim perhaps once per year in these areas.	Wind, Storms, Winter, Lightning, Wildfire	Designated Scenic Roads	Cost is for in-kind staff and volunteer labor.	N/A

STRUCTURE AND INFRASTRUCTURE PROJECT ACTIONS

Action Number	Action	Action Timeframe	Ranking Score Relative Ease of Completion	Who is Responsible	Approximate Cost to Town	Description and Evaluation of Action	What Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#20-2012	Upgrade Clothespin Bridge over the Blackwater River to Protect from Floods and Erosion	<u>Long Term</u> 4 to 5 Years		Select Board	\$2,000,000	Clothespin Bridge is structurally deteriorating - deckings, its footings eroded by water, etc. The bridge is red-listed and an old one-lane bridge. Clothespin Bridge serves as the primary access road to the east side of the Town for Pillsbury Lake fire response, and the Fire Dept needs to get apparatus across. The bridge is also the primary route for Concord Fire Dept trucks coming through. The bridge is inspected every year by the State, which provides maintenance funding every 2 years. This is a school bus route for the Elementary School. Include a static river gage on the bridge to measure water height.	Flood, Scouring & Erosion, Storms	Clothespin Bridge Road, Blackwater River	Cost is for engineering and construction and design and construction of approaches to bridge.	NH State Bridge Aid for 2020-2022 (80/20), Bridge and Culvert Improvements CRF
#31-2012	Upgrade Detour Road to Protect from Erosion after Clothespin Bridge Project is Completed	<u>Long Term</u> 4 to 5 Years		Select Board	\$250,000	Detour Road suffers from erosion due to flooding, and repairing 1/2 - 1/3 of a mile of the road would prevent future occurrences. Ditching and fixing swales would help correct the problem. Must occur after Clothespin Bridge project.	Flood, Scouring & Erosion, Storms	Detour Road	Cost is for engineering, design and construction.	Capital Outlay

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#32-2012	Upgrade White Plains Road over Schoodac Brook/Knight's Meadow Culvert-Bridge to Protect from Floods and Erosion	<u>Short Term</u> 1-2 Years		Highway Department	\$295,000	Currently, the three 33" culverts which comprise a bridge under White Plains are considered a redlisted bridge by NHDOT. Town has their share of the funding ready, and the State (FEMA) is evaluating the application.	Flood, Scouring & Erosion, Storms	White Plains Road	Cost is for engineering, design and construction, plus some in-kind labor.	FEMA HMGP (75/25) 25% funded by Bridge and Culvert CRF
#57-2018	Install Lightning Rods and Grounding Equipment at the Town Office and Public Safety Building to Redirect Lightning Strikes	<u>Medium Term</u> 3-4 Years		Select Board	\$15,000	The Town Office and Public Safety Building do not have lightning rods and surge protectors at the main electrical box source to offset lightning strikes. Lightning is a concern as the computer systems are vulnerable as well as the buildings. Lightning has caused similar problems in surrounding communities.	Lightning	Town Office, Public Safety Building	Cost is for installation, lightning rods, surge protectors.	FEMA EMPG (50/50), Town Hall CRF and Public Safety Building CRF
#58-2018	Upgrade Mutton Road Culvert to Protect from Floods and Erosion	<u>Medium Term</u> 3-4 Years		Select Board	\$25,000	Scenic road, gravel and deteriorating. Old rotten culvert, prone to flooding and debris.	Flood, Scouring & Erosion, Storms	Class VI Mutton Road at the bog	Cost is for engineering, design and construction, NHDES permitting.	Bridge and Culvert CRF
#59-2018	Upgrade Pond Hill Road Culvert to Protect from Sedimentation, Floods and Erosion	<u>Short Term</u> 1-2 Years		Select Board	\$25,000	Sediment pollution control work on the Class VI road. Want a squashed elliptical culvert for the turtles and salamanders.	Flood, Scouring & Erosion, Storms	Pond Hill Road	Cost is for engineering, design and construction, NHDES permitting.	Bridge and Culvert CRF
#60-2018	Upgrade Dingit's Corner Drainage System on Pleasant Street to Protect from Floods and Erosion	<u>Short Term</u> 1-2 Years		Select Board	\$25,000	Washes out onto Clothespin Bridge and Pleasant Street. Water needs to be diverted	Flood, Scouring & Erosion, Storms	Pleasant Street (gravel) onto Clothespin Bridge (asphalt)	Cost is for engineering, design and construction, NHDES permitting.	Bridge and Culvert CRF
#61-2018	Upgrade Corn Hill Road Bridge with the Town of Boscawen to Protect from Floods and Erosion	<u>Long Term</u> 4 to 5 Years		Select Board	\$500,000	Split 50/50 with Boscawen. Water floods over the bridge during storms, wetland inundation. Guardrails also need to be replaced. Box culvert would be necessary. Have to raise profile of the road.	Flood, Scouring & Erosion, Storms	Corn Hill Road at Boscawen Town line	Cost is for engineering, design and construction, NHDES permitting.	Town of Boscawen (50/50), raise money Bridge and Culvert CFR
#62-2018	Upgrade Deer Meadow Road (151-167) Culvert to Protect from Floods and Erosion	<u>Long Term</u> 4 to 5 Years		Select Board	\$100,000	Deer Meadow Road floods at a dip (downslope to culvert), and the road has been closed in the past as a result. The location of culvert upgrade may be a future dry hydrant site. Because it is a two-lane road, the Town may consider box culvert. The Town and/or Pillsbury Lake VD will upgrade the respective section of water line also.	Flood, Scouring & Erosion, Storms	Deer Meadow Road at Little Pond Brook	Cost is for engineering, design and construction, NHDES permitting.	Raise money Bridge and Culvert CFR
#63-2018	Upgrade the Pillsbury Lake Village District Water Lines to Protect from Breakage During Earthquakes, Floods and Other Natural Hazards	<u>Long Term</u> 4 to 5 Years		Pillsbury Lake Village District	\$2,000,000	All lines are small, 2" undersized and old, some may be 3/4". They regularly break all over the PLVD community. No schematics of existing lines, no idea of shut off valves. Beginning a mapping program. This may be a very long term project as it would be very expensive. The PLVD would need to agree to undertake this action.	Earthquake, Drought, Flood, Public Health	Pillsbury Lake Village District (PLVD)	Cost is for engineering, design and construction, NHDES permitting.	PLVD, possible Town contribution, and NH DES grants

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#64-2018	Install a Dry Hydrant on Deer Meadow Road (PLVD) to Provide Fire Suppression	Medium Term 3-4 Years		Fire Department	\$5,000	Coordinate with the upgrade of the Deer Meadow Road culvert (bridge). Little Pond Brook would be a good drafting site.	Lightning, Wildfire, other Fires	Little Pond Brook	Cost is for installaation and PVC or steel barrel hydrant.	Dry Hydrant CRF
#65-2018	Install a Dry Hydrant on Deer Meadow Road (268) to Provide Fire Suppression	Short Term 1-2 Years		Fire Department	\$5,000	About 300' from the road, use fire pond and place about 150'. Landowner permission needed.	Lightning, Wildfire, other Fires	Private Fire Pond	Cost is for installaation and PVC or steel barrel hydrant.	Dry Hydrant CRF
#66-2018	Retrofit the Public Safety Building with a Wall Hydrant System to Fill Tankers to Provide Faster Fire Suppression	Long Term 4 to 5 Years		Fire Department	\$10,000	Need to be able to obtain water supplies for fires .Durig cold months, cannot draw water at frozen hydrants or ponds. Can fill at the station. Upgrade existing pump, reservoir and retention system 300 gallons. Also serves as the EOC and could be used for showers.	Lightning, Wildfire, other Fires	Public Safety Building (Entire Town benefits)	Cost is for upgrading existing pump, and installing 300 gallon reservoir and retention system.	Public Safety CRF, FEMA Assistance to Firefighter Grant (AFG), EMPG

BEGIN HERE WS3.2 ON FEB 27

See LOCAL PLANNING TABLE TO REVISE BLUE CELLS

NATURAL SYSTEMS PROTECTION ACTIONS

Action Number	Action	Action Timeframe	Ranking Score Relative Ease of Completion	Who is Responsible	Approximate Cost to Town	Description and Evaluation of Action	What Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#67-2018	Purchase Land and Construct a New Town Salt Shed to Protect the Quality of the Blackwater River					The Town's salt and sand shed floods regularly and could be polluting the Blackwater River. The building and site are too close to the river and need to be moved in the future. Some upgrades were made to the road this year, but it will not be enough. The long term solution is to purchase new Town land and build a new salt shed with appropriate shoreland setbacks to protect the quality of the Blackwater River.	Flood, Scouring & Erosion, Ice Jam, Wind, Storms, Dam Failure or Release, Winter, Hazardous Materials	Blackwater River Shoreland and Floodplain	Cost is for	

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#68-2018	Work with USACE to Develop a Policy for the Specific Notification of Shoreland Landowners and the Town of the Impending Releases of Blackwater Dam Water to Protect from Flash Floods and Erosion					The federal Blackwater Dam mismanages the releases of Blackwater River floodwaters which affects the integrity of the banks downstream, causing erosion, mass bank failure with trees falling, flooding of acres of private property along the shoreland. No announcements are given when floodgates will open, resulting in a danger to river users and property owners. The natural environment suffers because of the intensity of release.	Flood, Scouring & Erosion, Dam Failure or Release	Blackwater River Shoreland and Floodplain	Cost is for	
	<i>Other new studies and inventories: environmental protections, mapping, debris, water quality assessments? Regulations for recreational use of public riverland?</i>									
	<i>Other land acquisition to protect from flooding, wildfire, flood storage capacity? Projects to destabilize riverbanks?</i>									
	<i>Other energy conservation measures in Town facilities?</i>									
	<i>Other brownfields clean up projects or hazardous waste collections?</i>									
#71-2018										

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EDUCATION AND AWARENESS PROGRAM ACTIONS

Action Number	Action	Action Timeframe	Ranking Score Relative Ease of Completion	Who is Responsible	Approximate Cost to Town	Description and Evaluation of Action	What Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#45-2012	Participate in National Flood Insurance Program (NFIP) Training to Interpret Floodplain Regulation			Emergency Management, Police and Fire Departments, Life Safety, Town Administration	\$0	In order for Planning Board and Zoning Board of Adjustment members, Emergency Management Director and the Life Safety Officer and Town Administrator to remain current with NFIP procedures and policies, regular training must be taken. Online webinars or local workshops are occasionally offered by the State and/or FEMA (or in other training) and address flood hazard planning and management.	Flood, Scouring & Erosion, Dam Failure or Release	Blackwater River Shoreland and Floodplain	Cost is for	N/A
#50-2012	Develop Evacuation Plan for Multiple Hazards to Reduce Risk of Injury by Natural Hazards			Emergency Management	\$2,000	The Multiple Hazard Evacuation Plan would allow the evacuation of residents during emergencies resulting from different hazard events in different locations. The list generated (and annually updated) of residents in need of special assistance will be of use when developing the Plan.	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Heat, Earthquake, Dam Failure or Release, Debris, Hazardous Materials, Public Health	Entire Town, Vulnerable Population Areas	Cost is for	EMD Budget or Warrant Article, or Homeland Security Grant

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#69-2018	Develop a Public Education Program for Blackwater River Shoreland Landowners of the Flotation Risks of Unsecured Tanks, Objects and Agriculture Supplies and Provide Resources for Anchoring Contents to Protect Against Floods and Dam Release					After the policy is developed for Fire Department inspection of the anchoring and securing against flotation the aboveground tanks and agricultural supplies of landowners along the Blackwater River, a public education campaign is necessary to talk with landowners prior to inspection. Landowners of large brooks and streams may also benefit. The unsecured propane or gas tanks, agricultural fertilizer, and objects along the floodplain of the Blackwater River are a real risk if swept away during a flood or during release of Blackwater Dam water. When the Dam water is released, it carries unsecured objects downstream. Ice jams form in backyard of shoreland landowner houses and collect objects. Swept away debris can be large, hazardous and/or explosive	Flood, Scouring & Erosion, Ice Jam, Dam Failure or Release, Wildfire, Hazardous Materials	Blackwater River Shoreland and Floodplain	Cost is for	
#70-2018	Develop a Public Education Program Connecting the Electric Companies and Scenic Road Landowners Enabling the Advance Trimming of Hazardous Trees to Reduce Storm Damage					After the new Planning Board Policy is developed enabling electric companies to proactively seek Planning Board permission to trim hazardous trees on scenic roads on behalf of landowners who have hazardous tree problems, a public education campaign of scenic road landowners will be necessary. Some of the trees that regularly fall on powerlines during storms are located on scenic roads in Town. Power companies and landowners cannot cut back the trees on scenic roads until they fall due to protective regulation. Landowners have to wait until trees fall onto roads and powerlines because utilities obtain approval to trim perhaps once per year in these areas.	Wind, Storms, Winter, Lightning, Wildfire	Designated Scenic Roads	Cost is for	
	<i>Other new public education programs: evacuation, public health, manufactured home structure protections, fire prevention, NFIP, sign up CodeRed or other Town notification system, etc?</i>									

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