

Mitigation Action Plan 2018

See blue cells to complete before moving to Mar 19 topics

Work Session 3.3

3/19/2018

Hazard Mitigation Actions for BOSCAWEN

2012 Deferred Action

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.

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Begin @ #68- 2018	Brief Action Name	<u>Short Term</u> 1-2 Years <u>Medium Term</u> 3-4 Years <u>Long Term</u> 4 to 5 Years	<u>TBD at a later meeting</u>	Planning Board, Board of Selectmen, Fire Department, Police Department, Emergency Management, Historical Society, Penacook-Boscawen Water Precinct, Merrimack Valley School District	\$0, estimate cost, \$xxxx - \$xxxx range	Fully describe Action - What is the problem? What are issues to be considered? How will Town be solving problem?	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Heat, Earthquake, Landslide, Dam Failure, Debris, Hazardous Materials, Public Health, Sabotage, Vandalism, Human	___ Road, ___ River, ___ Neighborhood, ___ Town Building, Entire Town	Cost is for in-kind staff and volunteer labor. OR Cost is for _____ (engineering, design, installation, construction, permitting, contracted labor, printing & postage, etc.)	Capital Reserve Fund, Dept Operating Budget, Warrant Article, Expendable Trust Fund, NH DOT / NHDES/ NH HSEM/ Other Agency grant program, Other _____

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 Natural Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#41- 2012	Develop Town Snow Plow Policy to Reduce Winter Weather Impacts	<u>Short Term</u> 1-2 Years		Public Works Department	\$500	A written policy will state when the roads are plowed so there is no conflict. It may help with liability and/or insurance, and employees will know the what/when/how/where of plowing.	Storms, Winter, Debris	Town Roadways	Cost is for legal review.	Town Legal Budget
#48- 2012	Update the Zoning Ordinance to Comply with NFIP Requirements	<u>Long Term</u> 4-5 Years then Ongoing		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 Code Enforcement Officer, etc. In 2008, the Town adopted the recommended updates to the ordinance, and in 2010 the new NFIP maps were adopted. The existing ordinance is amended with federal updates on an occasional basis.	Flood, Ice Jams, Erosion & Scouring	Floodplains	Cost is for in-kind staff and volunteer labor.	N/A

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#50- 2012	Update the 2001-2002 Master Plan to Ensure Protective Ordinances and Regulations Can be Developed	Short Term 1-2 Years then Ongoing (Annual)		Planning Board	\$300	The project will maintain a balance between the Town's needs and the growth of the Town. A couple of Chapters will be updated every year. This document is the basis for regulations and ordinances, including those that mitigate natural hazards.	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Heat, Earthquake, Landslide, Dam Failure, Debris, Hazardous Materials, Public Health	Entie Town	Cost is for printing the new chapters.	Planning Board Printing Budget
#55- 2018	Hold Discussions on the Merits of Requiring New Developments to Install Underground Utilities to Reduce the Impact of Storms, Wind and Winter Events to the Community	Long Term 4-5 Years		Planning Board	\$1,500	Power lines regularly fail, community-wide, due to winter weather and lightning strikes. The Depot Street substation is especially vulnerable to damage caused by weather or pests. The power companies have a more rigorous tree trimming schedule.	Wind, Storms, Winter, Lightning, Wildfire	King Street Corridor	Cost is for contracting (CNRPC) and legal review.	Planning Board Budget
#56- 2018	Continue the Back Taxes Manufactured Home Acquisition and Demolition Program to Ensure Park Neighborhoods are Safer from Storms, Wind Events, and Fires	Short Term 1-2 Years then Ongoing (Annual)		Tax Collector, then Board of Selectmen	Est. \$5,000 / per unit	The manufactured housing parks will be at greater risk of wind and fire hazards than regular homes, particularly MF homes older than 2006 which are not required to be anchored (wind). Existing MF homes have no required setbacks between structures. The newer parks are safer (Smith) with homes on slabs and built to current codes. Some homes are condemned for health reasons and the same situation could occur. In time, should see that parks should have more space and be safer. Town acquires MF homes for back taxes and demolishes the homes. To rebuild, new ones have to comply with HUD standards. Costs the Town more money to obtain & demolish than the value of back taxes.	Flood, Wind, Storms, Lightning, Wildfire, Winter, Heat, Earthquake, Hazardous Materials, Public Health	Manufactured Home Parks	Cost is for legal fees and demolition (PWD)	Tax Deeded Properties and Legal Fees Budgets

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#57- 2018	Develop a Policy for the Provision of Potable Water to Downtown Businesses During a Storm, Wind or Winter Event That Causes Utility Failure	<u>Short Term</u> 1-2 Years then Ongoing (Annual)		Emergency Management with Water Precinct	\$500	All King Street/Main Street businesses are on the public water supply, so if the Penacook Boscawen Water Precinct is not operational water is unavailable to all businesses.	Wind, Storms, Lightning, Wildfire, Winter, Drought, Heat, Earthquake, Debris, Hazardous Materials, Public Health	King Street Corridor and Main Street	Cost is for legal review.	Property and Legal Fees Budgets
#58- 2018	Improve the Site Plan Review Regulations and Establish Standards, Including Building Design, Landscaping, Access Management, and Stormwater Drainage, to be Met by All New Developments Along the King Street Corridor to Be Safer from Storms, Wind, Winter Weather and Other Hazards	<u>Short Term</u> 1-2 Years		Planning Board	\$0	All King Street/Main Street businesses are on the public water supply, so if the Penacook Boscawen Water Precinct is not operational water is unavailable to all businesses. Same as electric outage - affects the entire business area. The King Street Coordination Study (2017) was reviewed to see if there were any mitigation actions to add. Improving King Street through regulations will make the entire area safer from natural hazards (severe storms, winter weather, wind events), as well as from the secondary hazards that occur with natural disasters (power failure, traffic accidents, fire) and hazardous materials spills.	Flood, Scouring & Erosion, Storms, Wind, Winter, Debris, Hazardous Materials	King Street Corridor	Cost is for in-kind staff and volunteer labor.	N/A
#68- 2018	<i>Other Ordinance or Regulation revisions related to natural hazard protection? Fluvial erosion hazard zone, slopes, wetlands, fire suppression, earthquake, tree breaks, second egress, better road construction standards, etc?</i>									
	<i>Other new Plan to mitigate natural disasters?</i>									
	<i>Other new codes for wind, snow load, or earthquakes, or regulations for underground utilities?</i>									

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STRUCTURE AND INFRASTRUCTURE PROJECT ACTIONS

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#17- 2012	Upgrade Water Street Hydrant System from the Corner of Raymond Road by Water Precinct to Ensure Safe Water Delivery	<u>Long Term</u> 4-5 Years		Water Precinct	\$500,000 \$1,000,000	Existing problems at this site are the small pipes and the inability to feed the amount of water necessary. An upgrade is essential, to include a pump to get the required amount of water and supply faucets. Penacook-Boscawen Water Precinct owns the pipes and hydrants, and system is outdated. However, it works fine at this time for normal usage but would not work with a fire truck. Costs provided from the Precinct engineer are to upgrade the pump to be larger, upgrade the wiring, and purchase and install a bigger emergency generator.	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Winter, Drought, Earthquake, Landslide, Debris, Public Health	Water Street area, Raymond Road	Cost is for putting in a pump system or put in a water tank at the top of Water Street. Perhaps the Town could share costs.	Water Precinct User Fees, Bond
#18- 2012	Upgrade North Water Street Culverts to Protect from Floods and Debris	<u>Long Term</u> 4-5 Years		Public Works	\$5,000	The four culverts are small enough to trap debris and North Water Street floods out. The culverts all need to be engineered and upgraded. NHDES regulation states culverts can only increase by 1 size without NHDES permits or engineering. Paving needs to be done at the same time, waiting for paving to make improvements.	Flood, Scouring & Erosion, Storms, Debris	North Water Street	Cost is for permitting and materials.	PWD Road Resurfacing Budget
#20- 2012	Upgrade Corn Hill Road Culverts to Protect from Floods and Debris	<u>Short Term</u> 1-2 Years		Public Works	\$6,000	Corn Hill Road Culverts are undersized and trap debris. Flood waters cannot run through culverts, so it runs over the top and flood Corn Hill Road. Corn Hill Road is an important local collector road connecting Webster residents to I-93.	Flood, Scouring & Erosion, Storms, Debris	Corn Hill Road	Cost is for permitting and materials.	PWD Road Resurfacing Budget

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#23- 2012	Collect Baseline Data and Develop Inspection Program for Culverts and Erosion-Prone Areas	<u>Short Term</u> 1-2 Years		Public Works	\$60,000	There is an erosion problem on River Road and in other areas of Boscawen. Baseline data needs to be collected to ascertain the existing conditions of problem areas, and regular inspection needs to occur to see how the erosion areas have changed. Regular inspection will prevent damages and catastrophic failures, and will increase safety and save money. An inspection program will provide a better awareness of culvert conditions, potential flooding, and future expenses.	Flood, Scouring & Erosion, Storms, Debris	Town Roadways	Cost is for	Warrant Article, 2/3 vote 2018. Bond Principle forgiveness through NHDES Asset Management Program through State Revolving Fund (100% will be paid for by bond ultitately)
#30- 2012	Establish an EOC with Appropriate Equipment for Emergency Response and Operations	<u>Long Term</u> 4-5 Years		Emergency Management	\$50,000	Currently, no dedicated space for an EOC exists in Town, although the Police Department would be used in a disaster event. The goal is to establish an EOC with appropriate equipment for emergency response and operations. Space must be made on site or in the Police Department. Equipment and service needs include television, radio, base radio, computers, phone, internet. The EMD will transfer existing emergency response equipment over to store in the new EOC. Older computers cycled out from the Town Office operations may be used.	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Heat, Earthquake, Landslide, Dam Failure, Debris, Hazardous Materials	Entire Town, Municipal Building	Cost is for a dedicated space, television, radio, base radio, computers, phone, and internet installation and equipment.	EMPG (50/50), Warrant Article
#59- 2018	Construct a New Public Works Garage to Current Code to Enable Better Response to Storms, Winds, and Winter Events	<u>Long Term</u> 4-5 Years		CIP Committee, then the other Depts		The old age of Town facility buildings (Fire Department, Municipal Building, Water Precinct, Public Works) render them vulnerable to lightning, winter weather and downed trees resulting in power failure, and are a fire risk. **DPW- Public Works Garage and offices need to be redesigned and rebuilt, a CIP item. Small, outdated, no heat, systems inadequate, equipment does not fit. The DPW's response to storm, wind and winter weather events would be stronger with a new building, proper heating and electrical systems, and room for vehicles and equipment used to counteract these events.	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Heat, Earthquake, Landslide, Dam Failure, Debris, Hazardous Materials, Public Health, Sabotage, Vandalism, Human	Location TBD	Cost is to purchase land and construct a new Public Works facility to code that accommodates staff and equipment.	CIP, Capital Reserve Fund, Warrant Article

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#60- 2018	Install Lightning Rods along the Municipal Building Rooftops and Associated Grounding Systems to Mitigate Lightning Strikes					The historic brick, 4-story Municipal Building (housing the Town Offices, Police Department and Library) is particularly vulnerable to lightning strikes and earthquakes.	Lightning	Municipal Building, Police Department, EOC	Cost is for installation, lightning rods, surge protectors.	
#61- 2018	Upgrade Goodhue Road Catchbasins from Erosion and Scouring	<u>Short Term</u> 1-2 Years		Public Works	\$2,500	Rebuild before final paving. Basins had salt scouring away at concrete, new catchbasins will be replaced with concrete too.	Flood, Scouring & Erosion, Storms, Debris	Goodhue Building	Cost is for materials.	PWD Road Resurfacing Budget
#62- 2018	Install a Generator at the Town Office to Run the EOC and Town Office Functions During Storms, Winds, Winter and other Hazard Events	<u>Short Term</u> 1-2 Years		Town Administration	\$60,000	Although the Police Department has its own generator, the Town Office and EOC do not have backup electricity in the event of power failure. The Town administration needs to be able to access its records and take care of business while the EOC needs to be able to run the incident command system. A generator for these Departments is needed.	Wind, Storms, Lightning, Wildfire, Winter, Heat, Earthquake, Dam Failure, Debris	Town Office, EOC	Cost is concrete pad, wiring, and generator.	EMPG 50/50, Warrant Article
#67- 2018	Upgrade Corn Hill Road Bridge with the Town of Webster to Protect from Floods and Erosion	<u>Long Term</u> 4 to 5 Years		Board of Selectmen	\$500,000	Split 50/50 with Webster. 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 Webster Town line	Cost is for engineering, design and construction, NHDES permitting.	Town of Webster (50/50),
	<i>Other sewer or water line upgrades, water tanks anchoring? Other ways to deal with hazardous trees in right of way?</i>									
	<i>Other building stabilization projects, sprinkler retrofits, floodproofing of town facilities, major improvements, dam upgrades?</i>									
	<i>Other installation of cisterns, dry hydrants? Installation of a river gage?</i>									

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NATURAL SYSTEMS PROTECTION ACTIONS

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#63- 2018	Establish a Partnership between the Town and State to Protect the Hannah Dustin Island Historical Monument by Reducing Erosion	<u>Short Term</u> 1-2 Years		Historical Society	\$0	During extreme flooding events, the Hannah Dustin historic site in the Merrimack River floodplain, monument or swept away in a strong flood or the island could be flooded and eroded. Town owns 2/3 of island, State owns the 1/3 where monument is located. The State is beginning to maintain its section of the island, mowing, chipping. The monument is a lower priority of monument, because a high flood would take out the river's nearby houses as well. Unlikely to flood that badly in the near future, although it occurred during the 1936 floods. Historical Society should be the Town group that leads this effort.	Flood, Scouring & Erosion, Storms	Hannah Dustin Island	Cost is for in-kind staff and volunteer labor.	N/A
#64- 2018	Obtain Access for a Fire Department Board Launch on the Merrimack River and Provide Safe Public Recreational Beach Access	<u>Medium Term</u> 3-4 Years		Fire Department	\$20,000	It is necessary to find a safe place for people to swim because only easy access place in Boscawen has strong current and is unsafe,; there have been several fatalities in the last few years. There is a current rough plan already for access at Commercial Street at old Boscawen bridge to add parking across the tracks. This plan could include a Fire Department boat launch at Hannah Dustin for emergency rescue. Town of Boscawen have the right to cross the tracks. A new Committee may be needed to work with Crete and Jamie Welch owners and Parks and Rec Department to initiate. A new beach with safe and accessible public swimming is also desired.	Scouring, Unsafe Beach Currents		Cost is for legal review, building parking lot and bringing in sand for a safe beach. Cost should be less because others can provide help and leverage fund.	Friends of the Northern Rail Trail may be able to contribute

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	<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>									

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EDUCATION AND AWARENESS PROGRAM ACTIONS

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#34- 2012	Educate the Public about Unsafe Trees to Reduce Storm Damage					An article would be placed in the Newvine and conversations would be had with the public to educate them about removing dangerous trees from their property along the roadway. The DPW get phone calls regularly from homeowners.	Wind, Storms, Winter, Lightning, Wildfire	Entire Town	Cost is for	
#35- 2012	Educate Homeowners about Snow Load Damage Prevention to Prevent Building Collapse					The project would consist of placing an article in the Newvine during the winter snow season, developing a brochure in-house, and placing the information on the Town's website.	Wind, Storms, Winter	Entire Town	Cost is for	
#65- 2018	Educate the Merrimack County Facilities' Occupants, Workers and Visitors about Proper Hygiene Practices to Reduce the Spread of Communicable Diseases					The Town's institutional facilities (County Nursing Home and Correctional Facilities) and Boscawen Elementary School have a high public health outbreak potential. Many Boscawen residents work at these facilities and could transmit any diseases when returning to their homes. Nursing home isolates locations of outbreaks, responders must take precautions. Reporting is done to the State and/or town. Consider communicating with the MC to coordinate protocols, reporting, response, and recovery when public health outbreaks occur. Education can be conducted through flyers, social media, websites, posters, school notification system and personal outreach.	Public Health	Merrimack County Nursing Home and Correctional Facilities	Cost is for	
#66- 2018	Converse with Sovereign Grace Church about Flood Protection Options for the Building					Flooding and damage to the Sovereign Grace Church could occur from the surrounding 2 sides. The building and parking area are situated between wetlands.	Flood, Scouring & Erosion	Sovereign Grace Church	Cost is for in-kind staff and volunteer labor.	N/A

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	<i>Other new public education programs: evacuation, public health, building & property protections, fire prevention, NFIP, sign up with CodeRed or other Town notification system, hazardous trees, flood zone, etc?</i>									