

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#70-2018	Revise Zoning Ordinance to Require Emergency Generators on All New Telecommunications Towers to Reduce the Impact of Storms, Wind, Fire and Winter Events	Medium Term 3-4 Years		Planning Board	\$1,000	If the main transmission towers were destroyed by any weather event or hazard event, all public safety communications would be jeopardized. People panic when internet and power are out, calling emergency facilities. Infrastructure is protected, but the residents lose service. Catamount (Pittsfield), White Birch, River Road, Brimstone, Nudds Hill (Pittsfield) do not have emergency generators. One tower is vacant on Elkins Lane and would be considered "new" and subject to this regulation. 1-2 of preexisting towers do have propane generators (White Birch Lane and Brimstone Hill).	Wind, Storms, Lightning, Wildfire, Winter, Earthquake, Sabotage, Vandalism	New telecommunications towers	Cost is for legal fees and public notification.	Planning Board Legal Budget
#93-2024	Campgrounds Zoning Ordinance - should have 2-way egress. Are new private or seasonal campgrounds allowed in the PB Zoning Ordinance? If so, should develop a regulation against campgrounds in the floodplain and	Long Term 4-5 Years		Planning Board	\$1,000	Historically, campgrounds have been constructed down low beside the Suncook River. The campgrounds are always evacuate during flooding. Planning Board should develop regulations for some protections, including two-way egress, to apply to future campground applications.	Flood, River		Cost is for legal fees and public notification.	Planning Board Legal Budget
#xx-2024	Seek an alternate emergency communications tower or other option to ensure the emergency communications are not disrupted.	Long Term 4-5 Years		Emergency Management	\$40,000 - \$100,000 depending on equipment & software	If the main transmission Communications towers were destroyed by any weather event or hazard event, all public safety communications would be jeopardized. People panic when internet and power are out, calling emergency facilities. Infrastructure is protected, but the residents lose service. ATT given broadband contract by governor's office, but it does not cover Epsom well. Some of the towers are vacant, have no service. Poor communications on emergency side. Best option is to add on to Fort Mountain, or access to another tower through regulation - emergency services takes priority. CIP has townwide repeater technology. Most town & school buildings have a copper phone line - a bridge to better communications. Interoperability problem is huge.	Winter, Wind, Ice, Tropical, Thunderstorms		CIP project is for project, software, hardware, installation, licensing, materials, labor.	New CRF, HSEM Communications & Security Grant
BEGIN HERE ON 12-13										
#xx-2024	Develop an PB ordinance to install detention ponds and stormwater retention on new developments with escrow for drainage enforcement by Town Engineer.			Planning Board		Leighton Brook at intersection of Old Town Road. Now a culvert, should be a box culvert - engineering review permitting. Blackhall Road culvert overtopped downstream in multiple locations. New development upstream has no drainage on BH Road, increased stress on all seasonal streams and intermittent streams under BH Rd. Devts try to keep the water within their developments. Many repairs from Leighton Brook on the higher side upstream (not downstream DES repaired). PB working on detention or retention ponds, now trying to keep water on the development. Existing development is the problem.	Flood, River, Winter			
#xx-2024	Develop a Public Health Plan that incorporates COVID policies and School & State notices of procedure.			Health Officer		Among the biggest potential disasters to the Town are biological hazard events occurring at the Epsom Central School, Epsom Manor, and the Family Medical Center. School tracks symptoms and notifies the State. Town notifies local health officer who then notifies the State. Lyme disease, influenza (POD is in Northwood Coe Brown Academy). Old Sears Building was used for COVID. State Plan 2009 has not been updated. Town held 1 drill as a result.	Health			

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#xx-2024	Revise PB/Highway road construction standards to require two-way egress on new major developments over 6 lots.			Planning Board with Highway Dept assistance		One-way egress, also known as dead-end roads, provide hardship when trees and power lines down block entire roads for several hours. Emergency services are impacted from reaching residents. People cannot get from one side to homes or from homes out of development. Traffic crashes.	Wind, Tropical, Winter, Wildfire			
#xx-2024	Approve new Emergency Management CRF to save for Mitigation and Preparedness Projects			\$\$\$? Annually						
#xx-2024										
#xx-2024		Short Term 1-2 Years					Drought, Wildfire, Winter, Ice, Cold, Heat, Dam, Flood, River, Earthquake, Landslide, Health/Biologic, Solar, Wind, Thunderstorm, Downburst, Lightning, Tornado, Hail, Tropical, Tech/Human			

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 Natural Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#41-2012	Equip Public Buildings with Sprinkler Systems to Provide Fire Suppression	Long Term 4-5 Years		Fire Department	\$30,000 per building, \$250,000 for School	Public buildings should be equipped with sprinklers for fire safety, including future construction. Many historic buildings, like the Meetinghouse (dry system upstairs), Old Town Hall, and Old Library are already designated on the National Register of Historic Places and would need to be retrofitted. The Town Hall should be among the first to have them installed. The Epsom Central School also needs to be sprinklered, built in the 1950s.	Lightning, Wildfire, Drought, Hazardous Materials, Fire	Meetinghouse, Old Town Hall, and Old Library	Cost is for installation of wet and/or dry fire suppression systems.	Warrant Article for both

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#46-2012	Study and Rehabilitate Cass Road Bridge to Reduce Effects of Floods, Ice Jams, Erosion and Scouring	Long Term 4-5 Years		Highway Department	\$250,000 to \$750,000	The bridge is red-listed and closed. Cass Road Bridge has two side by side decks which are deteriorating and abutment work needs to be done. The Little Suncook River flows under and is scouring away the foundation. Necessary for emergency vehicle access. When Center Hill Road is washed out, this is another way in to the Mountain Road, Echo Valley Farm Road are etc.	Flood, Ice Jam, Scouring & Erosion, Landslide, Debris	Cass Road Bridge	Cost is for an engineering study and design, NHDES permitting, contracted road reconstruction labor and materials.	Warrant Article or Highway Department Operating Budget (Town) funded OR Town and NH DOT Bridge Aid 80/20 reimbursement
#48-2012	Raise the Village District Well House to Prevent Flooding of the Facility	Long Term 4-5 Years		Epsom Village Water District	\$50,000	The Well House building regularly is flooded when the Suncook River floods and water service gets suspended to Village District residents. Although the Well House was fenced in and slightly elevated in 2017, the Village Water Precinct still wants to move the entire Well House safely out of the floodplain. No budget is available however for this project.	Flood, Ice Jam, Scouring & Erosion, Storms, Debris	Village Water District Well House on Short Falls Road	Cost is for contracted labor to move and upgrade well house, including new water lines. Possibility that new land would be needed which would raise the estimated cost of just moving the building itself.	Epsom Village Water District User Fees, hope to locate grants
#72-2018	Retrofit the Epsom Central School with Sprinkler Systems to Provide Fire Suppression	Long Term 4-5 Years		School District	\$150,000	Estimates are about \$2.00 to \$7.00 per square foot to retrofit existing buildings. The Epsom Central School was built in the 1950s with cinderblock construction and did not include sprinklers. Although the walls and floors would not burn a fire, the contents would.	Fire, Hazardous Materials	Epsom Central School	Cost is for retrofitting a sprinkler system in the school.	School District Warrant Article
#74-2018	Produce an Engineering Study of a Third Well for Epsom Village Water District for Future Fire Suppression Needs	Long Term 4-5 Years		Select Board	\$25,000	An engineering study for the third well was voted on at Town Meeting 2018 (\$10,000 warrant article). A third well will provide additional capacity to the existing lines, water for fire suppression. This study is considering long range issues, such as enabling businesses to occupy lots further from the Traffic Circle which helps with traffic movement, a real concerns during natural hazard events or disasters, and will provide fire suppression.	Flood, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Earthquake, Landslide, Dam, Debris, Haz Mat, Health (Water Quality), Human	North Route 28	Cost is for \$25,000 engineering study.	Engineering Study of Third Well for Epsom Village Water Capital Reserve Fund
#75-2018	Install a Cistern on Gauthier Way for Fire Suppression	Long Term 4-5 Years		Planning Board, with Fire Department assistance	\$0	The Town would like to continue the water line to this development, but it is too far. New economic development will occur on Gauthier Way, so a cistern will be necessary. Regulations require cisterns to be installed prior to receiving the occupancy permits.	Lightning, Wildfire, Drought, Hazardous Materials, Fire	Gauthier Way	Cost is for the developer to install and maintain a cistern onsite.	N/A
#92-2018	Reconstruct Leighton Brook Road to Protect from Floods and Erosion - Upgrade Old Town Road over Leighton Brook as a box culvert.'	Short Term		Highway Department	\$70,000	Over time, potholes and deteriorating road conditions have resulted in the need to reconstruct Leighton Brook Road. The road is a Class V Town road, accepted from a development about 40 years ago in the 1970s which was not built to current Town standards.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Leighton Brook	Cost is for contracting and materials and in-kind time.	Highway Department Capital Reserve Fund
#xx-2024	Reconstruct a pitched roofline on the existing roof on the School.			School District		Wet heavy snow accumulation on flat town roofs (School) could result in the potential for roof collapse if snow is not removed regularly.	Winter, Ice, Thunderstorms			

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#xx-2024	Replace the waterline from the four corners Black Hall Road/New Rye Road Intersection to the end of service at Short Fall Road.			Water District with Select Board		Water utilities are old, especially Short Falls Road. Needs to be replaced, have a need for regular services. Lots of holes everywhere. Black Hall Road also. INFO: New pipes laid to the circle have been used multiple times and are a huge asset to Fire Dept. Town is looking for a new water source for capacity north of the traffic circle. New lines, new well, new water tank, new service areas. – Water District is in charge of this	Flood, River, Health/Water Quality			
#xx-2024	Request the State comply with their EAP for Northwood Lake Dam including vegetation removal, regular communication with the Town of Epsom and TTX drills.			Select Board with Emergency Management assistance		With an upstream Northwood Lake dam breach, Epsom's Route 4 at Route 107 intersection would be fully washed out if the Lake drains. A breach would also result in flooding the Cass Pond Dam which may flood Route 4. Northwood Lake dam failure would flood the Suncook River, with detrimental effects experienced along its length. Road damages and diversion of traffic around those areas. State has a dam EAP – review the inundation maps in spring 2023. During July flooding 2023, the state released China Mill dam water to reduce Suncook River flooding.	Flood, Dam, River			
#xx-2024	Promote the Center Hill Road Bridge over the Little Suncook River as the priority to get into the 10-Year Plan.			Select Board with Highway Department assistance		The Town has 3 redlisted/closed bridges for which there is no funding to rehabilitate or remove. No funds to take down the bridges during closed hazard to kids, people who try to walk across. The Old Turnpike Bridge is historical- may be limited in what can be done later. Cass Bridges not in DOT TYP.	Flood, Dam, River			NH DOT Bridge Funds 80/20, Ten-Year Plan
#xx-2024	Investigate lightning protection options for Town facility and historic buildings.			Emergency Management		Lightning rod protection for historical buildings - may be possible to mitigate for lightning strike for certain Historic buildings and church buildings.	Lightning, Fire			
#xx-2024	Obtain a rental Agreement with local distributors for a large portable generator that could be used at any Town facility during a public health or power failure.			Emergency Management		Power failures would severely impact critical facilities (Epsom Central School, Epsom Nursing Home) that provide medical assistance and sheltering during disasters. Only Epsom Manor has a generator system. Epsom Traffic Circle area is one of the first areas to regain power on a priority basis. Even with a generator in Feb 2018 one of Epsom Medical Center's generators failed and pumped smoke into the building. Nursing Home has their own plans.	Wind, Tropical, Winter, Cold, Health, Solar			
#xx-2024	Consider purchase or rental of a battery for use by critical priority devices in extended power failures.			Emergency Management		(see above)	Wind, Tropical, Winter, Cold, Health, Solar			
#xx-2024	Establish agreements with the Library and the Epsom Bible Church for their use as temporary warming or cooling shelters.			Emergency Management		Unofficially, the Library and Epsom Bible Church are used for either warming or heating shelters. There should be an official agreement between the Town and each facility that enables the warming & cooling shelters to be opened by the Town when necessary.	Cold, Heat, Winter, Wind, Tropical			
#xx-2024	Upgrade ____ Culvert over ____ River/Brook to Reduce the Impact of Flood and Storm Events			Highway Department			Flood, River, Storm, Climate			
#xx-2024	Upgrade ____ Culvert over ____ River/Brook to Reduce the Impact of Flood and Storm Events			Highway Department			Flood, River, Storm, Climate			
#xx-2024	Upgrade ____ Culvert over ____ River/Brook to Reduce the Impact of Flood and Storm Events			Highway Department			Flood, River, Storm, Climate			

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#xx-2024										
#xx-2024										
#xx-2024							Drought, Wildfire, Winter, Ice, Cold, Heat, Dam, Flood, River, Earthquake, Landslide, Health/Biologic, Solar, Wind, Thunderstorm, Downburst, Lightning, Tornado, Hail, Tropical, Tech/ Human			

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 Natural Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#76-2018	Purchase and Conserve Large Lots on Sanborn Hill and Center Hill as Identified by Bear Paw Regional Greenway to Enable Trails for Fire and Tree Debris Access	Medium Term 3-4 Years		Conservation Commission, approval from Select Board needed	\$100,000 to \$300,000	Town services and the School system could not accommodate development of the large lot legacy properties at current Town service levels. Significant upgrades to services, buildings, infrastructure, equipment and staff would need to occur. Some of the lots could be conserved. Bear Paw Regional Greenway recently approached 8 landowners for conservation land, asked town to purchase. Easements for Center Hill and Bear Hill, proposed to Select Board 2017	Wind, Storms, Lightning, Wildfire, Winter, Drought	Sanborn Hill and Center Hill	Cost is for legal & titles, BearPaw management, development rights.	Conservation Commission Fund
#77-2018	Produce a Study on the Brownfields Sites (Getty Station and Gossville Hotel) to Reduce Environmental Contamination of the Traffic Circle	Medium Term 3-4 Years		Select Board	\$0	Contaminated water at Getty Station (MtBE), Exxon Mobil, Gossville Hotel) contributed funding to the State that will benefit Epsom. Economic development is an important theme in the community right now and this is the right time to pursue such a project. NHDES and Economy Devt Committee looking into brownfield sites, formerly Huckins and L Doone, gas stations with unlined tanks.	Flood, Scouring & Erosion, Wildfire, Hazardous Materials, Public Health, Vandalism	Brownfields Sites along Traffic Circle	Cost is for in-kind. Assistance from NHDES and CNHRPC.	Brownfields funding, NHDES, US EPA

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#xx-2024	Check to see if there will be enough capacity in Town Cemetery without the need for additional land to ensure appropriate long-term placement of interments.			Cemetery Trustees		There are lots of private cemeteries and individual graves. Individual graves and family cemeteries are not considered public cemeteries so they may not be tracked or made available or public access. (see NH Cemetery Association.org). Restoration on Center Hill with grants. New Rye has private cemetery association. One Town cemetery (out of 6) is accepting new interments, they are managed by Cemetery Trustees.	Flood, Landslide,			
#xx-2024	Visit potential Haz Mat Tier 2 facilities and encourage them to report on-site materials as required to the NHDES/Fire Dept/REPC to discourage chemical, haz mat material dumping in Town forests and raise awareness of potential danger to people and facilities. Develop a process for other businesses to self-report.			Fire Department		There may be more Tier 2 businesses in town that do not report. Technically any small businesses generating even electronic waste could qualify as a generator. There are a high number of hazardous materials facilities all around Town and along major routes Route 4 & 28. If a fire or incident occurs, evacuations of nearby vulnerable populations must occur. Traffic will need to be rerouted, major traffic hazards will result. FD is updating contacts at businesses and MSD sheet and are preplanning for response, inspections and walk through. Have a procedure to follow, bill of lading, Central NH Hazmat rules. Federal Highway went to a new placarding system to replace the MSDS, with a simpler related sheet. Materials Safety Data Sheet	Haz Mat, Health (Water Quality), Conflagration			
#xx-2024	Undertake Town Forest Road access improvements, fire suppression improvement with a cut lot in 2024.			Select Board with Fire Department and Highway Dept assistance		Town Forest Management Plan needed and in progress for Town Forest for logging. Also has an old mill, cemetery and cellar foundations on site at Tarleton Road entrance. The Plan was approved by the Select Board for implementation in Jan 2024. Town Forester did a nice job.	Wildfire			
#xx-2024										
#xx-2024										
#xx-2024										
#xx-2024										

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#xx-2024							Drought, Wildfire, Winter, Ice, Cold, Heat, Dam, Flood, River, Earthquake, Landslide, Health/Biologic, Solar, Wind, Thunderstorm, Downburst, Lightning, Tornado, Hail, Tropical, Tech/ Human			

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 Natural Hazards Does Action Mitigate?	Affected Location in Town	What Approximate Cost Will Pay For	How Funded
#54-2012	Educate the Public on the Effects and Impacts of Dams Which Can Alleviate Flooding Conditions	Short Term then Ongoing		Town Administration, with help from Economic Development Committee	\$0	Developing pamphlets, publicity notices on the cable channel, using "reverse 911" technology with the School, website, and writing articles for newspapers will better help inform the public about the effects and impacts of dams. The Town will partner with the NH DES. The Allenstown/ Pembroke Buck Street Dam was removed by NH DES in 2011. NHDES should be able to provide information for the pamphlet. The targeted audience would be those who are dam owners or directly about dams.	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Dam Failure or Release, Debris	Suncook River floodplain, other dams	Cost is for in-kind staff and volunteer labor.	N/A
#79-2018	Educate the Adult Public, Town Staff and Volunteers on Instructor-Level ALICE to Reduce Impacts of Human Hazards in Buildings	Short Term 1-2 Years		Police Department	\$6,000	Town Office, Police Department, Post Office, Library, Epsom Central School, Epsom Manor are targets for human threats (active shooter, bombing, powders, etc). Alert Lockdown Inform Counter Evacuate ALICE "train the instructor" training sponsored by the PD for 2 days on April 24-25 at the Epsom Central School, although it has a high cost (\$600).	Hazardous Materials, Public Health, Sabotage, Vandalism, Human	Public buildings	Cost is for 2 School, 2 Hwy, 1 Fire, 1 TA Town, 4 PD to attend training.	Individual Department Budgets for Training
#81-2018	Educate Homeowners About Options on Hazardous Tree Removal to Reduce Storm Damage	Short Term then Ongoing		Highway Department	\$0	Town receives multiple first responder calls for trees down in seasonal campgrounds, on manufactured homes and town wide during severe wind events and storms. These locations are particularly vulnerable with light structures and heavy trees. During the drought, more trees falling over with roots. Residents are becoming proactive with tree removal. Power companies come in every 5 years. Town can call and request trees removal. HD also removes trees. Homeowners are often reluctant to cut their trees, Town warns when trees are hazardous.	Wind, Storms, Lightning, Wildfire, Winter, Drought	Entire Town	Cost is for in-kind staff and volunteer labor.	N/A

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

- | | | |
|--------------|------------------------|------------------------|
| Drought | Inland Flooding | Thunderstorm |
| Wildfire | River Hazard | Downburst |
| Winter Storm | Earthquake | Lightning |
| Ice Storm | Landslide | Tornado |
| Cold Wave | Public Health/Biologic | Hail |
| Heat Wave | Solar Storms | Tropical/Post Tropical |
| Dam Failure | High Wind | Technological / Human |

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

DRAFT 12-13-23

Actions to be restated & details to be completed

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
#82-2018	Upgrade the Rail Trail Between the Route 4 to Short Falls Road to Reduce Erosion and Washouts	Medium Term 3-4 Years		Conservation Commission	\$5,000	Conservation Commission discussed upgrading the rail trail from approximately the washed out bridge over the Little Suncook on the north end down to Short Falls Rd on the south end. Part of this plan included at least one kiosk as well as some signs, gates and other obstructions to reduce the illegal OHRV traffic. Upgrades to the trail itself would include repair of some culverts and the addition of some stone dust or other hard pack material. The rail trail will be made safer from flooding, erosion, and from human injury with these upgrades.	Flood, Scouring & Erosion, Wind, Storms, Human	Rail Trail between Little Suncook River and Short Falls Road	Cost is for in-kind volunteer labor, culvert materials, kiosk materials, trail base materials and signage, and for contracted labor.	Conservation Commission Budget Equipment and Supplies, Grants to be sought
#xx-2024	Engage in a Public Outreach Campaign to Ensure More Business and Residential Property Owners Anchor Their Mobile and Stationary Tanks to Reduce the Risk of Explosion During River Flood and Wind/Tropical Events and Develop a System for These Requirements During New Inspections			Emergency Management		Town has had problems with propane tank debris floating down the Suncook River from Lazy River and Suncook Valley Campground and lodging against bridges during flooding events. Could happen again during extreme events. Some homes have been moved. Campgrounds are more responsive to potential flooding. Solved this issue for the most part, although the river has not yet risen high enough. (People often plow underground tanks during snow conditions). Tank anchoring or tie down would require public education, whether propane tanks, or natural gas LP. Would be difficult to get the tanks anchored. Largest tanks must comply with NFPA and/or building code.	Winter, Flood, River, Fire, Wind, Tropical, Haz Mat			
#xx-2024	Seek private ROW easements for Chestnut Pond, Old Turnpike, Birch Lane for fire access and secondary emergency egress. Include public info & education for support of residents.			Select Board with Fire Department		Existing one-egress roads, also known as dead end roads, often have trees and power lines down block entire roads for several hours during severe weather or disasters. Emergency services impacted from reaching residents. People cannot get from one side to homes or from homes out of development. Traffic crashes can occur. A secondary means of access through a temporary or gated private road could be established between the Town and homeowner associations.				
#xx-2024	Develop a plan to check in with vulnerable populations during wind and weather events.			Fire Department		There are many apartments, assisting living facilities, and vulnerable populations such as Meadow, Sunrise, Day cares, that will require additional services during disasters and severe weather, power outages. Depts are monitoring these areas during storms.	Wind, Storms, Tropical, Lightning, Wildfire, Winter			
#xx-2024	Obtain a drone for public safety location on the Town Forest trails. GPS to be programmed to person location.			Fire Department		The Fire Department needs a drone to adequately locate and perform fire and rescue services. Epsom has many remote wooded sections of Town used for recreation. There is a high risk of fire due to the use of and access to remote sites. FD has a budget to keep access to Class VI roads. Upgrading forest fire truck in 2021 and a UTV to get access to hiker rescue and searchers. Town has a forester, regular logging. FD kept up to date on logging. Slash cleared out, less fire. FD conducts controlled burns. Several areas like Fort Mountain are gated. Timber cuts have been approved, Town forest will be logged and Class VI road improved to accommodate logging trucks.	Wind, Storms, Tropical, Lightning, Wildfire, Winter, Health (Public Safety)			
#xx-2024	Develop better trails maps for the public and responders can know exactly where to go. Kiosk and real-time electronic version of the trail maps (apps).			Conservation Commission		Emergency response has difficulty locating and evacuating injured or lost people even in the Town Forest. If the person has a cell phone, PD can ping the phone through 911. NH Fish & Game will assist, as will Town Forester. FD does mapping and GPS training every year. PD can access K-9 units and thermal imaging units. The Town does have Town Forest & other conservation area maps available to all emergency response and the public. Paper Maps are needed and should be available to the public and for emergency response.				

Develop Mitigation Action Plan 2024

EPSOM HAZARD MITIGATION

Prior (Deferred) Action

New Action Begins With #93-2024

Need 1+ Action for Each Natural Hazard

Work Session 3.2

12/13/2023

2024 New Action (from Problem Statements, Other Discussion)

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
#xx-2024										
#xx-2024										
#xx-2024							Drought, Wildfire, Winter, Ice, Cold, Heat, Dam, Flood, River, Earthquake, Landslide, Health/Biologic, Solar, Wind, Thunderstorm, Downburst, Lightning, Tornado, Hail, Tropical, Tech/ Human			

- Drought
- Wildfire
- Winter Storm
- Ice Storm
- Cold Wave
- Heat Wave
- Dam Failure
- Inland Flooding
- River Hazard
- Earthquake
- Landslide
- Public Health/Biologic
- Solar Storms
- High Wind
- Thunderstorm
- Downburst
- Lightning
- Tornado
- Hail
- Tropical/Post Tropical
- Technological / Human

DRAFT 12-13-23
Actions to be restated & details to be completed