

# Develop Mitigation Action Plan 2024

## EPSOM HAZARD MITIGATION

Prior (Deferred) Action

2024 New Action (from Problem Statements, Other Discussion)

New Action Begins With #93-2024

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| Ice Storm    | Landslide              | Tornado                |
| Cold Wave    | Public Health/Biologic | Hail                   |
| Heat Wave    | Solar Storms           | Tropical/Post Tropical |
| Dam Failure  | High Wind              | Technological / Human  |

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Meeting 3

11/8/2023

### 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?	Where Location in Town	What Approximate Cost Will Pay For	How Funded
#69-2018	Regulate New Underground Utilities in Subdivision and Site Plan Review Regulations to Reduce the Impact of Storms, Wind and Winter Events	<u>Long Term</u> 4-5 Years		Planning Board	\$0	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. ATT given broadband contract by governor's office, but it does not cover Pittsfield well.	Wind, Storms, Lightning, Wildfire, Winter, Earthquake, Debris, Sabotage, Vandalism	New developments	Cost is for in-kind staff and volunteer labor.	N/A
#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	<u>Short Term</u> 1-2 Years		Planning Board	\$0	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 telecommunication towers	Cost is for in-kind staff and volunteer labor.	N/A
#71-2018	Continue Efforts to Incorporate 2009 USGS Flood Mapping into Epsom's FIRMs	<u>Long Term</u> 4-5 Years		Board of Selectmen	\$0	With assistance from the NH DES and NH Office of Strategic Initiative, in 2012, efforts were initiated to incorporate the 2009 USGS Suncook River Flood Study into the current FEMA maps. However, due to the number of map panels that were impacted, the effort was placed on hold until FEMA could designate funds towards the project. There is currently a FEMA mapping project for the Merrimack River watershed being led by the USGS. This project, which kicked off in 2015, will include their 2009 study of the Suncook River that will result in new FEMA FIRM mapping.	Flood, Ice Jam, Scouring & Erosion, Storms, Dam Failure or Release, Debris	Suncook River floodplains	Cost is for in-kind staff and volunteer labor.	N/A
#93-2024										
#xx-2024										
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### STRUCTURE AND INFRASTRUCTURE PROJECT ACTIONS

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#38-2012	Install a Hydrant East of the Epsom Traffic Circle on the Suncook River to Provide Fire Suppression for the Neighborhood as Part of Water Line Extension (See #72)	Short Term 1-2 Years		Water Precinct	\$12,000	Install Dry Hydrant east of the Epsom Traffic Circle on the Suncook River using Emergency Management Performance Grant (EMPG) funds after the grade control structures are installed by NH DES. The dry hydrant also cannot be installed until after the NH DES fluvial erosion hazard (FEH) feasibility study of the Suncook River has been completed.	Lightning, Wildfire, Drought, Hazardous Materials, Fire	East of Traffic Circle	Cost is for excavation, installation, (\$40/foot estimated) hydrant. Not including paving.	MTBE Grant from Exxon Class Action Suit, Warrant Article
#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
#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
#47-2012	Improve Class VI Fire Roads to Provide a Means of Access for Fire Suppression	Short Term then Ongoing		Fire Department	\$2,500 annually	Remove debris from storms that have made Class VI fire roads impassable. The FD should complete brush clearing on the fire roads to permit access into rural lands for wildfires and lightning strikes. Mountain Road, Old Mountain Road, Sanborn Hill, Granny Howe Road, Lane Road, Kettle Rock spur are primary Class VI roads Epsom over mountains.	Flood, Ice Jam, Scouring & Erosion, Landslide, Debris, Wildfire	Class VI Fire Roads	Cost is for brush cutting and water bars.	Fire Department Fire Road Maintenance Budget
#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
#67-2015	Continue to Work with NHDES and NH Geological Survey to Combine Hazard Mitigation Projects (FGA) to Reduce Flood and Erosion Impacts	Long Term then Ongoing		Board of Selectmen	\$0	Leighton Brook (projected summer 2015 finish) and Route 4 bridge stabilization (streambank stabilization projects downstream of the Route 4 bridge) are continuing with the State of NH. Suncook River is still changing so it is difficult to perform the projects as discussed. Other projects may make themselves known during this work for which funding will be sought.	Flood, Ice Jam, Scouring & Erosion, Dam Failure, Debris	Route 4 bridge, Suncook River	Cost is for in-kind staff and volunteer labor.	N/A

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#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
#73-2018	Extend the Water Lines from Goboro Road (Route 4) to the End of the Traffic Circle to Reach the Town Office for Fire Suppression (See #38)	Short Term 1-2 Years		Epsom Village Water District	\$0	Fire suppression becomes difficult when some of the historical sites are beyond the water precinct zones. Most of them are up on the hills. Placed a wet hydrant to the old Meetinghouse. Hoping to extend to 10" pipe. Engineering plans developed by Underwood. Contaminated water at Getty Station (MtBE), Exxon Mobil contributed funding to the State that will benefit Epsom. Town Wells 1 & 2 are located on Dover Road (Route 4).	Flood, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Earthquake, Landslide, Dam Failure or Release, Debris, Hazardous Materials, Public Health, Sabotage, Vandalism	Goboro Road (Route 4) to Town Office	Cost is for engineering survey (\$25,000), water line per foot, installation. Town does not have a \$ figure because it is paid for entirely by NHDES grant.	NHDES Grant MtBE (See #38)
#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		Board of Selectmen	\$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, Ice Jam, Scouring & Erosion, Wind, Storms, Lightning, Wildfire, Winter, Drought, Earthquake, Landslide, Dam Failure or Release, Debris, Hazardous Materials, Public Health, Sabotage,	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
#84-2018	Upgrade Sawyer Road Culverts (2) to Protect from Floods and Erosion	Short Term 1-2 Years		Highway Department	\$3,500	Two existing Sawyer Road steel, corrugated galvanized 18" culverts are corroded. Both will be upgraded to 24" plastic smooth bore, plenty of room for upgrade in this space.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Sawyer Road	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget
#85-2018	Upgrade Lords Mill Road Culvert to Protect from Floods and Erosion	Short Term 1-2 Years		Highway Department	\$15,000	Bottom of Lords Mills Road galvanized, corrugated steel culvert is gone, 14 feet in the ground. The upgrade size will be 48" plastic smooth bore PVC.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Lords Mill Road, Little Bear Brook Tributary	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget
#86-2018	Upgrade Hoit Road Culvert to Protect from Floods and Erosion	Short Term 1-2 Years		Highway Department	\$8,000	Bottom of Hoit Road galvanized, corrugated steel culvert is gone, buried under the road. The upgrade size will be 48" plastic smooth bore PVC.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Hoit Road, Little Bear Brook Tributary	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget

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#87-2018	Upgrade Mountain Road Culvert to Protect from Floods and Erosion	Short Term 1-2 Years		Highway Department	\$1,800	Existing Mountain Road culvert is deteriorating corrugated, galvanized 15" metal pipe, will be upgraded to 15" PVC smooth bore pipe that will enable more water to pass through unimpeded. This situation is common all Town. In order to keep costs down, no permitting is needed for materials upgrade of the same size pipe.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Mountain Road, Blakes Brook	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget
#88-2018	Upgrade Colonial Drive Culvert to Protect from Floods and Erosion	Medium Term 3-4 Years		Highway Department	\$3,500	Existing Colonial Road culvert is deteriorating corrugated, galvanized 15" metal pipe, will be upgraded to 15" PVC smooth bore pipe that will enable more water to pass through unimpeded. This situation is common all Town. In order to keep costs down, no permitting is needed for materials upgrade of the same size pipe.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Colonial Drive, Suncook River Tributary	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget
#89-2018	Upgrade Lockes Hill Road Culvert to Protect from Floods and Erosion	Medium Term 3-4 Years		Highway Department	\$2,200	Existing Lockes Hill Road culvert is deteriorating corrugated, galvanized 15" metal pipe, will be upgraded to 15" PVC smooth bore pipe that will enable more water to pass through unimpeded. This situation is common all Town. In order to keep costs down, no permitting is needed for materials upgrade of the same size pipe.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Lockes Hill Road, Lockes Brook	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget
#90-2018	Upgrade Chestnut Pond Road Culvert to Protect from Floods and Erosion	Long Term 4-5 Years		Highway Department	\$12,000	Chestnut Pond Road 18" concrete culvert has a crown, so will need to determine reason for it. Plan is to upgrade with new 18" concrete culvert and fix reason for the crown.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Chestnut Pond Road, Chestnut Pond & Little Bear Brook	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget
#91-2018	Upgrade Webster Park Culvert to Protect from Floods and Erosion	Long Term 4-5 Years		Highway Department	\$4,800	Existing 2 Webster Park culverts are deteriorating corrugated, galvanized 15" metal pipes, will be upgraded to 15" PVC smooth bore pipes that will enable more water to pass through unimpeded. This situation is common all over Town. In order to keep costs down, no permitting is needed for materials upgrade of the same size pipe.	Flood, Scouring & Erosion, Storms, Rapid Snow Pack Melt, Debris	Webster Park, Suncook River	Cost is for culvert materials and road patch materials, any equipment rentals. Staff labor in-kind.	Highway Maintenance Budget
#92-2018	Reconstruct Leighton Brook Road to Protect from Floods and Erosion	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	Culvert Upgrade									
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### NATURAL SYSTEMS PROTECTION ACTIONS

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#36-2012	Examine Options for Bank Stabilization of Suncook River Banks at the School Athletic Fields	Long Term 4-5 Years		Emergency Management / Board of Selectmen with Epsom School Admin	\$50,000 (study) + \$100,000 (stabilization)	The Suncook River is eroding away the athletic fields, and the building on site will soon be washed away if the bank is not stabilized. Options for bank stabilization should be considered in an engineering study before action is taken.	Flood, Ice Jam, Scouring & Erosion, Channel Movement, Wind, Storms, Debris	Epsom Central Elementary School and Suncook River	Cost would be for a consultant to prepare a stabilization study, then labor and materials for bank stabilization.	TBD
#68-2015	Continue Program to Monitor the Large Woody Material Damming the Suncook River (FGA) to Reduce the Impact of Floods and Erosion	Long Term then Ongoing		Fire Department	\$0	Town regularly needs to monitor the extensive trees inventoried in the Suncook River during high flows, storm events, and spring rains and snow melt. Calls come in to FD or PD from the public about migrating trees in the river.	Flood, Ice Jam, Scouring & Erosion, Channel Movement, Wind, Storms, Dam Failure or Release, Debris	Suncook River	Cost is for in-kind staff and volunteer labor.	N/A
#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 Board of Selectmen 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 Board of Selectmen 2017	Wind, Storms, Lightning, Wildfire, Winter, Drought	Sanborn Hill and Center Hill	Cost is for legal & titles, BearPaw management, development rights.	Conservation Commission Fund





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#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
#40-2012	Encourage Advance Tree Trimming of Hazardous Trees by Utility Companies to Reduce Storm Damage	Short Term then Ongoing		Highway Department	\$0	The Town will notify public utilities of trees and limbs too close to utility wires. The project will ensure maintenance of vital utility services to residents and businesses. Power outages and disruptions will become less common during a disaster event if regular tree trimming within the right-of-way occurs. Unutil every 5 years, Eversource every 6 years, try not to contact them unless necessary.	Wind, Storms, Lightning, Wildfire, Winter, Drought	Entire Town	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
#80-2018	Educate the Public on the See Something Say Something Campaign to Reduce Impacts of Human Hazards	Short Term then Ongoing		Police Department	\$0	Police Department's (PD) See Something Say Something program has posters at the School, call local PD, on PD Facebook and website to report suspicious activities.	Hazardous Materials, Public Health, Sabotage, Vandalism, Human	Entire Town	Cost is for in-kind staff and volunteer labor.	N/A
#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
#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

# Develop Mitigation Action Plan 2024

## EPSOM HAZARD MITIGATION

Prior (Deferred) Action

2024 New Action (from Problem Statements, Other Discussion)

New Action Begins With #93-2024

2023 PROBLEM STATEMENT ACTIONS ARE NOT YET ADDED TO THIS LIST. SOME OF THESE 2018 ACTIONS MAY HAVE BEEN COMPLETED SINCE 2018.

### 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  |

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Meeting 3

11/8/2023

### 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?	Where Location in Town	What Approximate Cost Will Pay For	How Funded
#83-2018	Collect GPS Mapping Data and Develop Maps of Town Trails in the Town Forest and Conservation Areas to Reduce Human Injury Potential from All Hazards	Medium Term 3-4 Years		Conservation Commission	\$1,000	Accurate maps of the Town Forest & other conservation area maps are needed. Although the Conservation Commission could ask the Town Forester for an updated map, GPSing trails is more flexible and easier to update and use. The public needs the maps to understand the location of trails and how to use the trails responsibly. Very large areas abut private land and there are no indications people are no longer on Town property when hiking through. Emergency response sometimes has difficulty locating and evacuating injured or lost people even in the Town Forest. GPSing the trails will result in updated, versatile trails maps and data available to all.	Wind, Storms, Lightning, Wildfire, Winter, Human	Town Forest and other conservation lands	Cost is for in-kind volunteer labor, borrowed equipment for GPSing, Town Forester assistance, and printing the maps.	Conservation Commission Budget, Donated Time
#xx-2024										
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