

	ANNUAL or SEASONAL Hazards? WHERE?	2018 (Month) Events	2019 (Month) Events	2020 (Month) Events	2021 (Month) Events	2022 (Month) Events	2023 (Month) Events	<u>NOTES</u>	<u>NOTES</u>
6-	NEARLY ANNUAL: Water restrictions annually, wells for the last 3 years 2020-2023.	2016-2020 Drought	May through October	10 Jul - Moderate drought conditions 1 Sep - severe drought conditions 27 Oct - Severe to extreme drought conditions 1 Dec - Moderate to severe drought conditions		Summer 2022:	2023- Wells may be going dry but are not reported to the Town. Fire suppression is a big issue. Trucks are now tankers going to FD response. Dry hydrants long gone as are the ramp access. CAP area	Fire Dept no longer delivers water to farms for livestock or crops - their products could be contaminated for human consumption. In EOP for private companies.	
6-	ANNUAL: Regional earthquakes impact the area, with no more than a large "boom" or shaking windows during a nearby earthquake.								
BEGIN HERE AT 06-28 meeting									
LANDSLIDE Soil, Rockslide, Excavation Areas, etc.	NONE								
Infectious Diseases, Air & Water Quality, Biological	ANNUAL: Emerald Ash Borer or cyanobacteria? Lyme disease (tick) or West Nile (mosquito)?	DAILY: Fire & Rescue assist addiction patients daily, exposed to contaminants. More Narcan used than in previous years. Town Report 2022 table has			March 2020 - June 2022- Coronavirus pandemic				
SPACE WEATHER Solar Winds, Geomagnetic Storms	PERIODIC: Communications equipment has been subject to geomagnetic radiation and solar storms in the past.					Apr 4 - Capital Area Fire & EMS Simulcast dispatch microwave system dropped connection from solar storms. Several towns offline until Lakes Region backup engaged. Multiple antennas			
Brushfire, Outdoor Fires, Accidental, etc.	ANNUAL: Numerous wildfires atState Forest, between xx-xx acres each event. Regular wildfires to respond to.						2023- Oak tree coverage was frozen in May 2023, and became extra dry with less vegetation. In mid-June 2023, finally rained and downgraded the risk (about 2 months		

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Discussed @M1 06- 20	COLD WAVE Wind Chill, Freezing	ANNUAL: Nearly every year, extreme heat event records are broken or the Town encounters very cold temperatures.			13 Feb - Extreme cold temperatures 15-25 degrees below zero			Sprinkler system, water pipes were broken. All plumbers were occupied	Health care on its own water system, may want to monitor water capacity (has 2 tanks). Trying to get municipal water across the street,	May 2023- Lots of crops damaged with freeze. May 16 frost - Apples, cherries, pears, peaches, oak trees, strawberries. Food crop was devastated locally, impacts economics.
Discussed @M1 06- 20	Excessive Heat	ANNUAL: Nearly every year, extreme heat event records are broken or the Town encounters very cold temperatures.		19 Jul - High heat and humidity 90-100 deg F		29 Jun - Extreme heat and humidity 90-100 degrees F		Jun 2023- Significant elderly population, high electric demands may cause brownout, a detrimental result for elderly. Holding brownout planning meeting with Unitil & Eversource planning to discuss multiple areas of Epsom to be concerned		
	FLOODING									
Discussed @M106- 20	Water Overtop, Breach, Beaver, etc.	ANNUAL- Regular beaver dam failures at: There is a list - not a specific time or season. Beaver dependent. Highway Dept. Relocations are attempted when possible.	Aug 6- Dam Break at Highway Department wetland. Jan 2018 - Snow and	19-22 Apr - Heavy rain,		1 Aug - Heavy rain and	Oct 23 - minor flooding		Since the floods of 2005- 2009, most of the infrastructure has been rebuilt to last.	Buck Street Dam removal has made a difference in flooding reduction. Northwood Lake's dam at Bixby Pond is the problem now. Homeless encampments are now in the area and may result in loss of life during a flood. Epsom does not have water rescue ability, but must rely on regional resources which only serve certain locations, not necessarily where the damage is.
	Rainstorms, Snow Melt, Flash Floods, Ditch Erosion, Washouts, Pond Overtop, etc	flooding from snow melt and rainstorms impacts roadways, brooks and ponds, and the Suncook River.	2-8 Mar - Severe storm rain, heavy wind and flooding many power outages	warmer weather, and snowmelt caused spring flooding 11-12 Jul - Repeated thunder storms caused flash flooding.		flooding 30 Jul - torrential rain 18 Jul - Severe rain storm and flooding.	12/22 4" rain, flooding			
	Ice Jams, Scouring, Erosion, Channel Movement, Debris, etc	banks. Tree debris						found at NH 28 bridge, where Buck Street dam had been formerly located.	Still concerned with ice jams in the Suncook River. Steve Landry of NHDES maintains watch, concerned with debris movement and ice jams. The state is keeping up with repair work. Much of the localized debris was removed with the US 4 bridge redo, now with freer flowing water. Will study as the result to see how the Suncook River has changed.	
	WARM WEATHER STORMS									

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HAIL							June 2023- Bad local hail storm, about a quarte- sized hail. Black Hall Rd and NH 28 windshields broke from hail. Tractor trailers off the road south of the traffic circle with lots of potential dangers. Three trees across wires. Many other hail events going back though to 2018.		
Wind Gusts, Storms (Causes Tree Debris, Electric Outage)	ANNUAL: Trees and tree limbs fall on powerlines, all of which can fall onto local and state roads during high wind events. All of Epsom is susceptible. MAIN TREEFALL	storm.	2/25/19- High winds. 7/23 T-storm/wind 10/17/19 - Wind/Rain storm. 2019 large tree blowdown in Webster Park. Later windstorms took out more trees.	25 Dec - Heavy rain 1.5- 2.5" and Strong wind 45- 55 mph. Extreme.	3/2/21- Windstorm. 3/29/21- Windstorm. 5/26 T-storm/wind 7/21 T-storm/wind 7/23 T-storm/wind	rainstorm and winds caused treefall. Nov 29- Heavy winds caused treefall on utility lines. Dec 26- Pembroke Plausawa tower came down in the last wind event, day after Christmas. CAMAFC equipment on the ground, diverted to another tower for simulcast and microwave system. Pembroke has rehabilitation cost on their	2023- The lack of the Plausawa emergency communications antenna, destroyed after Dec 2022 windstorm and not allowed to place new emergency antennas on tower, has resulted in a lawsuit (overcharged/priced out by tower owners). Need to put a new tower up for the benefit of Epsom. The town cannot receive some emergency calls. Still waiting for parts to fix the antenna, need a tower to place them on. Leaves failing impact the technology.		
DOWNBURSTS									
	ANNUAL: Lightning regularly strikes buildings in Epsom and rural areas like Mast Yard State Forest.	July 18- Town Library struck by lightning, caught fire. Burned out the computer and alarm systems. Otherwise, the building was mostly damaged from sprinklers and smoke, not the fire. \$700,000 to repair. Still may not have lightning rod now.				May 22- lighting storm.		Multiple strikes to people and property in Epsom over the last few years. Lots of ballfields where spectators and kids can be hit- children are not taught to leave the field during storms. FD gets the kids off the fields. Homes have been destroyed and damaged from lightning.	
THUNDERSTORMS	ANNUAL: Common culvert fail locations:								
TORNADOES	NONE							Three tornados have struck Epsom in Chief's lifetime, about 1 time every 10 years+ for 30 years. Short Falls Road, Lane Road 1970s, small straight line windshear later on. Tornado 2008 - loss of life, million dollar properties destroyed, clean up over five-10 years.	

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	SEASONAL Hazards? WHERE?	Events	Events	Events	Events	Events	Events		
TROPICAL AND POST-	PERIODIC: Trees and			Aug 3-6 - Tropical Storm	Aug 19-27 - Tropical			One egress roads?	Damage can include water,
TROPICAL CYCLONES				Isaias	Storm Henri				flooding, trees down,
Hurricanes, Tropical	powerlines, all of which								drinking water
Storms, Tree Debris	can fall onto local and								infrastructure.
Storins, free Debris	state roaus uuring								
	tropical and post- tropical cyclone events.								
COLD WEATHER STORMS									
WINTER STORMS,	ANNUAL: Snowstorms	Jan 4 "	20 Jan - snowstorm 4-	17 Dec - Snowstorm 5-	1-2 Feb - Severe	Feb 16- Snow	Jan 22 "?		
BLIZZARDS (winds >35	impact the entire Town.	Mar 13 - Severe	12" throughout the state	-	snowstorm 3-16" of		Dec 23-25- Rain, wind,		
mph, visibility <0.25 mile,		snowstorm "	12-13 Feb - Snow and	state.	snow throughout the state.		flood. Downed lines,		
>3 hours),			wintery mix storm 6-12" 2 Dec - Snowstorm 1-12"		state.		trees, schools closed. Power outages for days.		
NOR'EASTERS			throughout the state				rower outages for days.		
(tropical pattern, low			29 Dec - Snowstorm 6-						
pressure, follows East			10" throughout the state						
Coast)									
ICE STORM				7-8 Feb - Heavy snow,					
102 31 31 11				freezing rain, sleet, and					
				rain causing many power	·				
				outages.					
NOT APPLICABLE TO									
TOWN & REGION AVALANCHE									
COASTAL FLOODING									
TSUNAMI									
VOLCANIC ACTIVITY									
Technological and Human		2018 (Month)	2019 (Month)	2020 (Month)	2021 (Month)	2022 (Month)	2023 (Month)	<u>NOTES</u>	<u>NOTES</u>
Hazards, Impacts from	SEASONAL Hazards?		Events	Events	Events	Events	Events		
Natural Hazards	WHERE?								
AGING INFRASTRUCTURE	Public Works Dept check log - # of events/year or								
Bridges, Culverts, Roads,	note 1 significant event								
Pipes, Underground	per year								
Lines, Debris, etc									
LONG TERM UTILITY	Public Works Dept check					3/2/21- Windstorm		Electric Coverage:	Gas: Internet: Phone:
OUTAGE	log - # of events/year or								
Power, Water, Sewer,	note a significant event								
Gas, Internet,	per year								
Communications, Live									
Wire Danger, etc									
CONFLAGRATION (FIRE)	Fire Dept check log - # of							How many non-natural	
	events/year or note a							fires per year? Any	
	significant event per							pattern?	
	year, how many acres burned?								
HAZARDOUS MATERIALS	Fire Dept check log - # of								
Haz Mat Spills,	events/year or note 1								
Brownfields, Trucking,	significant event per year								
Known and Emerging	,								
Contaminants, etc									

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TRANSPORTATION CRASH Vehicle, Airplane, Helicopter, Rail, Interstate, Pedestrian,	ANNUAL: List State Routes, intersections with regular crashes								
MASS CASUALTY INCIDENT As a result of any hazard event	Fire Dept check log - # of events/year or note a significant event per year								
TERRORISM/ VIOLENCE Active Shooter, Hostage, Public Harm, Civil Disturbance/ Unrest, Politically Motivated Attacks, Incendiary	Police Dept check log - # of events/year or note a significant event per year								
CYBER EVENT Municipal Computer Systems Attack, Website Overtake, Cloud Data Breach, Telephone Rerouting, Identity Theft, Phishing, Ransomware, Virus, Phone Scams, etc.	Police Dept check log - # of events/year or note a significant event per year								