

**Identify 2018-2023 Past Hazard Events or Severe Weather and Local Epsom HAZARD MITIGATION**

HMC Members - add your hazard/severe weather experiences into this file and return to SA  
 Submit photos of hazard events or severe weather for the Photo Appendix!  
 PLEASE HIGHLIGHT YOUR CHANGED CELLS IN GREEN FOR EASY IDENTIFICATION OF REVISIONS

Meeting 1  
 6/14/2023  
 Email your file to Stephanie at  
[salexander@cnhrpc.org](mailto:salexander@cnhrpc.org)

**HAVE PHOTOS?**

The Plan needs your personal, Dept, or agency photos of the past severe weather events in the Town to illustrate their impact. Email Stephanie your .JPEGs or share a Dropbox or Google Drive link to the photos. Note who should receive the photo credit, ensure photo date is noted, and add event location (street, business, waterbody, etc) in file name or in separate



We need YOUR photos!



- WHERE? Note location of the event in the Year column.
- WHAT? Describe what happened during the event in the Town.
- WHEN? Add the Month (or Season) of the event, add Date if known.

| Natural Hazards                                                                                             | ANNUAL or SEASONAL Hazards? WHERE?                                                                                                                                    | 2018 (Month) Events                                                                                                                                                                                        | 2019 (Month) Events                                                      | 2020 (Month) Events                                                                                                                                                | 2021 (Month) Events                                                                                      | 2022 (Month) Events                                                                                                                                                                                                                                                                                                                                                                           | 2023 (Month) Events | NOTES | NOTES |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|-------|
| <b>DAM FAILURE</b><br>Water Overtop, Breach, Beaver, etc.                                                   | ANNUAL- Regular beaver dam failures at:                                                                                                                               |                                                                                                                                                                                                            |                                                                          |                                                                                                                                                                    |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                               |                     |       |       |
| <b>DROUGHT</b>                                                                                              | NEARLY ANNUAL:                                                                                                                                                        | 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 | 4 May - Moderate drought conditions                                                                      | Summer 2022:                                                                                                                                                                                                                                                                                                                                                                                  |                     |       |       |
| <b>EARTHQUAKE</b>                                                                                           | ANNUAL: Regional earthquakes impact the area, with no more than a large "boom" or shaking windows during a nearby earthquake.                                         |                                                                                                                                                                                                            |                                                                          |                                                                                                                                                                    |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                               |                     |       |       |
| <b>EXTREME TEMPERATURES</b><br>Excessive Heat, Heat Wave, or Cold, Wind Chill, etc.                         | 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                             | 13 Feb - Extreme cold temperatures 15-25 degrees below zero                                                                                                        | 29 Jun - Extreme heat and humidity 90-100 degrees F                                                      | Feb 3-4 Cold Snap: Most communities in Central NH including Epsom experienced negative temperatures (-10 to -19 degrees F) plus windchill, ranging as low as -45 degrees for a 36-hour period.                                                                                                                                                                                                |                     |       |       |
| <b>HIGH WIND EVENTS</b><br>Wind Gusts, Storms, Downbursts, Tornadoes, (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 | 4/16/18 - Rain/wind storm.<br>5/4 T-storm/wind<br>June 2018 - Windstorm<br>7/17 T-storm/wind<br>7/28 T-storm/wind<br>8/3 T-storm/wind<br>8/8 T-storm/wind<br>10/27/18 - Windstorm.<br>12/18/18- Windstorm. | 2/25/19- High winds.<br>7/23 T-storm/wind<br>10/17/19 - Wind/Rain storm. | 25 Dec - Heavy rain 1.5-2.5" and Strong wind 45-55 mph. Extreme.                                                                                                   | 3/2/21- Windstorm.<br>3/29/21- Windstorm.<br>5/26 T-storm/wind<br>7/21 T-storm/wind<br>7/23 T-storm/wind | Apr 18 & 19- Heavy rainstorm and winds caused treefall.<br>Nov 29- Heavy winds caused treefall on utility lines. Dec 26- Pembroke Plausawa tower came down in the last wind event, day after Christmas. CAMAFAC equipment on the ground, diverted to another tower for simulcast and microwave system. Pembroke has rehabilitation cost on their most recent FEMA claim.<br>7/12 T-storm/wind |                     |       |       |
| <b>SEVERE RAIN STORMS</b><br>Thunderstorms, Hail (causes Wind, Flood)                                       | ANNUAL: Common culvert fail locations:                                                                                                                                |                                                                                                                                                                                                            |                                                                          |                                                                                                                                                                    |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                               |                     |       |       |

| Natural Hazards                                                                                                                   | ANNUAL or SEASONAL Hazards? WHERE?                                                                                                                    | 2018 (Month) Events                                                                                                                                                                                                                               | 2019 (Month) Events                                                                                                                                                                            | 2020 (Month) Events                                                                                                                | 2021 (Month) Events                                                                               | 2022 (Month) Events                                                                                                                                                                  | 2023 (Month) Events              | NOTES             | NOTES |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------|-------|
| <b>INLAND FLOODING</b><br>Rainstorms, Snow Melt, Flash Floods, Ditch Erosion, Washouts, Pond Overtop, etc                         | SEASONAL: Minor flooding from snow melt and rainstorms impacts roadways, brooks and ponds, and the Contoocook River.                                  | Jan 2018 - Snow and melt events<br>2-8 Mar - Severe storm rain, heavy wind and flooding many power outages<br>8/8 Rain minor flooding<br>11/3 minor flooding                                                                                      | 19-22 Apr - Heavy rain, warmer weather, and snowmelt caused spring flooding 11-12 Jul - Repeated thunder storms caused flash flooding.                                                         |                                                                                                                                    | 1 Aug - Heavy rain and flooding 30 Jul - torrential rain 18 Jul - Severe rain storm and flooding. | Oct 23 - minor flooding 12/22 4" rain, flooding Branch Londonderry tpk., Boundtree closed for 1 day                                                                                  |                                  |                   |       |
| <b>LANDSLIDE</b><br>Soil, Rockslide, Excavation Areas, etc.                                                                       | NONE                                                                                                                                                  |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                |                                                                                                                                    |                                                                                                   |                                                                                                                                                                                      |                                  |                   |       |
| <b>LIGHTNING</b>                                                                                                                  | 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.                                                                                                                                                              |                                  |                   |       |
| <b>PUBLIC HEALTH</b><br>Infectious Diseases, Air & Water Quality, Biological, Addiction, Arboviral, Tick-borne, etc.              | ANNUAL: Emerald Ash Borer or cyanobacteria? Lyme disease (tick) or West Nile (mosquito)?                                                              |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                |                                                                                                                                    | March 2020 - June 2022- Coronavirus pandemic                                                      |                                                                                                                                                                                      |                                  |                   |       |
| <b>RIVER HAZARDS</b><br>Ice Jams, Scouring, Erosion, Channel Movement, Debris, etc                                                | ANNUAL: River can flood or erode banks.                                                                                                               |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                |                                                                                                                                    |                                                                                                   |                                                                                                                                                                                      |                                  |                   |       |
| <b>SEVERE WINTER WEATHER</b><br>Snow, Ice, Blizzard, etc.                                                                         | ANNUAL: Snowstorms impact the entire Town.                                                                                                            | Jan 4 " Mar 13 - Severe snowstorm "                                                                                                                                                                                                               | 20 Jan - snowstorm 4-12" throughout the state<br>12-13 Feb - Snow and wintery mix storm 6-12"<br>2 Dec - Snowstorm 1-12" throughout the state<br>29 Dec - Snowstorm 6-10" throughout the state | 7-8 Feb - Heavy snow, freezing rain, sleet, and rain causing many power outages.<br>17 Dec - Snowstorm 5-25" throughout the state. | 1-2 Feb - Severe snowstorm 3-16" of snow throughout the state.                                    | Feb 16- Snow                                                                                                                                                                         | Jan 22 " Dec 23-25 rain, flood " |                   |       |
| <b>SOLAR STORMS AND SPACE WEATHER</b><br>Solar Winds, Geomagnetic Storms (Aurora Borealis), Solar Radiation, Radio Blackout, etc. | 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 |                                  |                   |       |
| <b>TROPICAL AND POST-TROPICAL CYCLONES</b><br>Hurricanes, Tropical Storms, Tree Debris                                            | PERIODIC: Trees and tree limbs fall on powerlines, all of which can fall onto local and state roads during tropical and post-tropical cyclone events. |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                | Aug 3-6 - Tropical Storm Isaias                                                                                                    | Aug 19-27 - Tropical Storm Henri                                                                  |                                                                                                                                                                                      |                                  | One egress roads? |       |
| <b>WILDFIRE</b><br>Brushfire, Outdoor Fires, Accidental, etc.                                                                     | ANNUAL: Numerous wildfires at ___ State Forest, between xx-xx acres each event.                                                                       |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                |                                                                                                                                    |                                                                                                   |                                                                                                                                                                                      |                                  |                   |       |

| Natural Hazards                                                                                                                                                                   | ANNUAL or SEASONAL Hazards? WHERE?                                                                  | 2018 (Month) Events | 2019 (Month) Events | 2020 (Month) Events | 2021 (Month) Events | 2022 (Month) Events | 2023 (Month) Events | NOTES                                             | NOTES                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------------------------|-----------------------|
| <b>CLIMATE CHANGE EFFECTS</b><br>Warming in Winter, Variable Temps, Drought, More Rain Storms, High Winds Events                                                                  | ANNUAL: See Winter, Inland Flooding, Drought, Wind combined events to = cimate change effects       |                     |                     |                     |                     |                     |                     |                                                   |                       |
| Technological and Human Hazards, Impacts from Natural Hazards                                                                                                                     | ANNUAL or SEASONAL Hazards? WHERE?                                                                  | 2018 (Month) Events | 2019 (Month) Events | 2020 (Month) Events | 2021 (Month) Events | 2022 (Month) Events | 2023 (Month) Events | NOTES                                             | NOTES                 |
| <b>NATURAL HAZ IMPACTS: AGING INFRASTRUCTURE</b><br>Bridges, Culverts, Roads, Pipes, Underground Lines, Debris, etc                                                               | Public Works Dept check log - # of events/year or note 1 significant event per year                 |                     |                     |                     |                     |                     |                     |                                                   |                       |
| <b>NATURAL HAZ IMPACTS: LONG TERM UTILITY OUTAGE</b><br>Power, Water, Sewer, Gas, Internet, Communications, etc                                                                   | Public Works Dept check log - # of events/year or note a significant event per year                 |                     |                     |                     |                     | 3/2/21- Windstorm   |                     | Electric Coverage:                                | Gas: Internet: Phone: |
| <b>HAZARDOUS MATERIALS</b><br>Haz Mat Spills, Brownfields, Trucking, etc.                                                                                                         | Fire Dept check log - # of events/year or note 1 significant event per year                         |                     |                     |                     |                     |                     |                     |                                                   |                       |
| <b>FIRE</b><br>Vehicle, Structure, Arson, Conflagration, etc.                                                                                                                     | Fire Dept check log - # of events/year or note a significant event per year, how many acres burned? |                     |                     |                     |                     |                     |                     | How many non-natural fires per year? Any pattern? |                       |
| <b>TRANSPORTATION CRASH</b><br>Vehicle, Airplane, Helicopter, Rail, Interstate, Pedestrian, etc.                                                                                  | ANNUAL: List State Routes, intersections with regular crashes                                       |                     |                     |                     |                     |                     |                     |                                                   |                       |
| <b>MASS CASUALTY INCIDENT</b><br>As a result of any hazard event                                                                                                                  | Fire Dept check log - # of events/year or note a significant event per year                         |                     |                     |                     |                     |                     |                     |                                                   |                       |
| <b>TERRORISM/ VIOLENCE</b><br>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                       |                     |                     |                     |                     |                     |                     |                                                   |                       |
| <b>CYBER EVENT</b><br>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                       |                     |                     |                     |                     |                     |                     |                                                   |                       |