



## 11 East Windsor

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### Community Overview

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East Windsor has about 11,400 residents and a daytime population around 13,250 as people enter Town for work. The Town's land area is 26.3 square miles, giving it a population density of approximately 412 persons per square mile. Approximately 60% of residents are concentrated in Warehouse Point in the northwest section of Town and 40% are located in the Broad Brook area in the eastern-central section of town. Town officials report that the resident population is increasing, mostly with people employed in either Hartford or Springfield.

About 33% of the Town is developed, with most of the remaining area used for farming. In the last five years a new subdivision with 60 homes, called West River Farms, was constructed. Future developments may include the 122-unit Calamar elderly housing complex on Route 5 off Route 140, a possible 600-unit apartment complex on Phelps Road at Route 5, and two DOT roundabout projects in conjunction with construction of the train station. MMCT Venture, a collaboration between the Mohegan Tribe and the Mashantucket Pequot Tribal Nation, is expected to open a Casino in East Windsor within the next five years.

On the east side of the Connecticut River, the town lies at an elevation of about 160 feet. The eastern portion of town is within the Scantic River Watershed, while the western portion lies in the Connecticut Main Stem basin. Major waterways in East Windsor include the Connecticut and Scantic Rivers, along with tributaries including Broad, Chestnut, Ketch, Namerick and Spring Glen Brooks.

Interstate 91 crosses the northwest corner of East Windsor. State Route 5 is a major north-south thoroughfare, while State Routes 140 and 191 provide east-west access. Principal industries include: agriculture, support system facilities, and manufacture of small tools, paper boxes, electronics, aluminum by-products, farm implements and fertilizers. The largest employers in Town are Southern Auto Auction, Walmart, Kettlebrook Care and the companies at the Industrial Park.

### Critical Facilities

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Critical Facilities throughout the Capitol Region are listed in Appendix B. In East Windsor these include the High School, Middle School, Elementary School, Town Hall, three Fire Stations, Police Department, East Windsor Ambulance Association, Hunt Water Treatment Plant, 10 sewer pumping stations, Department of Public Works (DPW) Garage, the Senior Center, Kettle Brook care Center, Touchpoints at Chestnut, St. Johns Church, and Water Pollution Control Authority (WPCA). These are summarized in the table below.

**Table 11-1: Critical Facilities, East Windsor**

| Facility   | Shelter | Generator |
|--|---------|-----------|
| Town Hall  |         |           |
| Warehouse Point Fire Dept. Station 138           |         | X         |
| Warehouse Point Fire Dept. Station 238           |         | X         |
| Broad Brook Fire Department                      |         | X         |
| East Windsor Police Department                   |         | X         |
| - Emergency Operations Center                    |         |           |
| - Emergency Management                           |         |           |
| - Human Services                                 |         |           |
| - Ambulance                                      |         |           |
| East Windsor High School                         | X       |           |
| East Windsor Middle School                       |         |           |
| East Windsor Elementary School                   |         |           |
| DPW Garage                                       |         |           |
| Water Pollution Control Authority Facility       |         | X         |
| 10 Sewer Pumping Stations                        |         | X         |
| Hunt Water Treatment Plant                       |         |           |
| 2 DPS/DPW Communication Towers                   |         |           |
| Kettle Brook Care Center, LLC                    |         |           |
| Albert J. Solnit Psychiatric Center North Campus |         |           |
| Touchpoints at Chestnut                          |         |           |
| Senior Center (Broad Brook Fire Dept. Floor 2)   | Warming | X         |
| St John's Church                                 | Warming |           |

Law enforcement is provided by a full-time paid force of 26 regular officers and coordinated by six dispatchers. Fire service is provided by two volunteer fire departments; the Warehouse Point Volunteer Fire Department has two stations, and the Broad Brook Volunteer Fire Department has one. All vehicles are radio equipped and on the fire frequency and all fire stations have auxiliary generating equipment for emergency power.

East Windsor contracts the East Windsor Ambulance Association for emergency medical response. The Association operates five ambulances and three paramedic intercept vehicles.

The Emergency Management Agency has a part-time director and 30 volunteer staff members, six of whom also serve as the Advisory Council. The Agency has substantial equipment for use in disaster situations.

In addition to the critical facilities listed above, East Windsor has a number of historic sites and areas that contribute to community character and the local economy, and may be particularly vulnerable to the effects of natural disaster. These include:

- Windsorville historic district
- Old Box Company (a locally-designated historic site)
- Broadbrook Opera House
- East Windsor Academy



- Melrose School

## Capabilities

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East Windsor's hazard mitigation capabilities include its emergency response capabilities, regulation of flood risk areas, debris clearing, and snow management. Hazard mitigation is incorporated into the community's Plan of Conservation and Development (POCD). POCD actions specifically address natural hazards.

Since 2008, no new structures have been approved in the special flood hazard zone and a residential structure in the floodplain on North Water Street was recently removed through a demolition order.

Trees near powerlines are managed by the local energy provider (Eversource). The Town clears roads of debris but does not have the equipment to remove large trees.

East Windsor uses snow fencing to manage snow drifting. The Town feels they do an excellent job of snow management.

Two dry hydrants are located at Broadbrook Pond, one at Windsorville, and one at the Boat Dock.

## New Capabilities

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Four of the Town's ten sewer pumping stations were upgraded during 2016 and 2017; work included upgrading the station emergency generators. Upgrades were completed at the following stations:

- Mill Pond Pump Station (Originally installed in 1977)
- Route 5 (South Main Street) Pump Station (Originally installed in 1981)
- Industrial Park Pump Station (Originally installed in 1976)
- Scout Hall Pump Station (Built in 2000, no generator until this upgrade)

East Windsor is working toward making the High School the Town's primary shelter, with the Middle School transitioning to a secondary shelter. A 100KW portable generator has been purchased, but neither the Middle nor the High School have had hookups installed at this point.

## Challenges

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### Challenges Overview

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In addition to the hazards posed by natural disasters, East Windsor feels that motor transportation accidents involving dangerous materials, as well as possible aircraft accidents, are important hazards to consider because Interstate 91, U.S. Route 5 and State Route 140 pass through the town, and Bradley International Airport is in close proximity to the community.



Flooding is a concern for East Windsor. The following areas have been identified as particularly prone to flooding:

- Areas near the Connecticut River
- Bridge over Broad Brook on East Road between Melrose Road and Aspen Drive: this is a beaver-prone area; the river makes two sharp turns and then flows through an undersized culvert
- South Water Street and Bridge Street: homes here have flooded in the past; storm drains back up
- Mill Street and Church Street
- “Blue Ditch”: a drainage feature that allows water to flood near the WPCA if the Connecticut River is high

Dam failure is also a concern. The Broadbrook Pond Dam is Town-owned and in need of repair or replacement. The funding has not yet been secured to do this work; it is believed a bond will be necessary.

Shelter capacity is a concern for the Town. Risk Assessment flood model data suggests that in the event of a 10-Year flood the Town of East Windsor will need to provide emergency shelter for approximately 230 people. In the event of a 100-Year flood the Town will need to shelter approximately 350 people. In the event of a 500-Year flood the Town will need to shelter approximately 450 people.

### Hazard Losses

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The economic losses faced by East Windsor from natural hazards can be estimated by reviewing historic, and modeling future, loss figures. Loss estimates are summarized below.

### Historic FEMA Payments

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FEMA reimburses communities for hazard losses through programs including Public Assistance (PA) and the National Flood Insurance Program (NFIP). Combining PA and private flood insurance payments can give an estimate for total losses to a community.

The National Flood Insurance Program paid 23 property damage claims in East Windsor totaling \$281,502 to-date. East Windsor has not had any Repetitive Loss (RL) Property claims filed to-date.

Total PA reimbursements to the community were as follows:

- Flood Events: \$10,088 (\$531 annually)
- Hurricane Events: \$88,467 (\$4,656 annually)
- Winter Storm Events: \$565,525 (\$29,764 annually)

These are summarized in the tables below.



**Table 11-2: Flood Event PA Reimbursements, East Windsor**

|                     |                              |                |
|---------------------|------------------------------|----------------|
| <b>Incident</b>     | Sep 1999                     | Oct 2005       |
| <b>Declaration</b>  | 9/23/1999                    | 12/16/2005     |
| <b>Disaster No.</b> | 1302                         | 1619           |
| <b>Entity</b>       | <b>FEMA PA Reimbursement</b> |                |
| <b>State</b>        | \$518                        | \$642          |
| <b>Municipal</b>    | \$0                          | \$8,928        |
| <b>Nonprofit</b>    | \$0                          | \$0            |
| <b>Total</b>        | <b>\$518</b>                 | <b>\$9,570</b> |
| <b>Annualized</b>   | <b>\$27</b>                  | <b>\$504</b>   |

**Table 11-3: Hurricane Wind Event PA Reimbursements, East Windsor**

|                    |                                |
|--------------------|--------------------------------|
| <b>Incident</b>    | Aug - Sep 2011<br>(T.S. Irene) |
| <b>Declaration</b> | 9/2/2011                       |
| <b>Disaster #</b>  | 4023                           |
| <b>Entity</b>      | <b>FEMA PA Reimbursement</b>   |
| <b>State</b>       | \$491                          |
| <b>Municipal</b>   | \$87,977                       |
| <b>Nonprofit</b>   | \$0                            |
| <b>Total</b>       | <b>\$88,467</b>                |
| <b>Annualized</b>  | <b>\$4,656</b>                 |

**Table 11-4: Winter Storm PA Reimbursements, East Windsor**

|                    |                              |                 |                 |                 |                 |                  |                 |
|--------------------|------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|
| <b>Incident</b>    | Mar 2003                     | Dec 2003        | Jan 2005        | Feb 2006        | Jan 2011        | Oct 2011         | Feb 2013        |
| <b>Declaration</b> | 3/11/03                      | 1/15/04         | 2/17/05         | 5/2/06          | 3/3/11          | 11/17/11         | 3/21/13         |
| <b>Disaster #</b>  | 3176                         | 3192            | 3200            | 3266            | 1958            | 4046             | 4106            |
| <b>Entity</b>      | <b>FEMA PA Reimbursement</b> |                 |                 |                 |                 |                  |                 |
| <b>State</b>       | \$9,678                      | \$8,676         | \$11,446        | \$13,893        | \$12,105        | \$4,992          | \$23,524        |
| <b>Municipal</b>   | \$14,177                     | \$28,273        | \$25,518        | \$22,622        | \$38,610        | \$291,560        | \$60,451        |
| <b>Nonprofit</b>   | \$0                          | \$0             | \$0             | \$0             | \$0             | \$0              | \$0             |
| <b>Total</b>       | <b>\$23,855</b>              | <b>\$36,949</b> | <b>\$36,964</b> | <b>\$36,515</b> | <b>\$50,715</b> | <b>\$296,552</b> | <b>\$83,975</b> |
| <b>Annualized</b>  | <b>\$1,256</b>               | <b>\$1,945</b>  | <b>\$1,945</b>  | <b>\$1,922</b>  | <b>\$2,669</b>  | <b>\$15,608</b>  | <b>\$4,420</b>  |

*National Centers for Environmental Information Losses*

The table below summarizes events in the National Centers for Environmental Information (NCEI) severe storm database that were specifically noted as having impacted East Windsor since 2012.



**Table 11-5: NCEI Database Losses since 2012, East Windsor**

| Date         | Event             | Property Damage      |
|--------------|-------------------|----------------------|
| 7/1/2013     | Tornado           | *\$1,700,000         |
| 2/25/2016    | Thunderstorm Wind | \$10,000             |
| <b>Total</b> |                   | <b>**\$1,700,000</b> |

\* Damages from storm divided between multiple communities

\*\* "Total" figure does not equal the sum of the previous two figures due to rounding

NCEI losses under other event categories (such as drought, high wind, flooding, and winter storms) were not specifically noted as impacting East Windsor, though they did impact Hartford County and nearby towns. NCEI losses are reported in Section II of this Plan.

*HAZUS-MH Losses*

CRCOG used FEMA’s Hazus-MH model to analyze the risks that the community might face from flooding, hurricanes, and earthquakes. The model estimates economic losses to the town due to damage to buildings and building contents, as well as other economic disruptions. Both residential and commercial structures are addressed. Losses from different hazards are summarized below. Where available, estimates from the previous and current versions of the HMP are provided side-by-side; differences between the two may have been caused by a combination of the following:

- Changes in methodology: such as hazard zone mapping
- Changes in data: such as population and property values
- Changes in the model: this HMP utilized Hazus-MH version 4.0 rather than 2.1
- Other factors: inherent in a complex software like Hazus-MH

More details are available in the Multi-Jurisdictional HMP. Ultimately, changes in the loss estimates reflect the reality that small differences in hazard event features can have a significant impact on losses incurred.

**Table 11-6: Estimated Damages to East Windsor from a 1% Annual-Chance Flood**

| Loss Type                                 | 2014 Results        | 2018 Results        |
|---|---------------------|---------------------|
| Households Displaced                      | 164                 | 212                 |
| People Needing Shelter                    | 346                 | 383                 |
| Buildings at Least Moderately Damaged     | 26                  | 10                  |
| <b>Economic Losses</b>                    |                     |                     |
| Residential Building & Content Losses     | \$13,370,000        | \$18,105,73         |
| Other Building & Content Losses           | \$4,590,000         | \$17,435,197        |
| <b>Total Building &amp; Content Loss</b>  | <b>\$17,960,000</b> | <b>\$35,540,929</b> |
| <b>Total Business Interruption Losses</b> | <b>\$10,000</b>     | <b>\$655,803</b>    |
| <b>TOTAL</b>                              | <b>\$17,970,000</b> | <b>\$36,196,732</b> |



**Table 11-7: Estimated Damages to East Windsor from a 1% Annual-Chance Hurricane**

| Loss Type  | 2014 Results<br>(1938 event) | 2018 Results<br>(1% track) |
|--|------------------------------|----------------------------|
| Buildings at Least Moderately Damaged            | 22                           | 1                          |
| Buildings Completely Damaged                     | 4                            | 1                          |
| Total Debris Generated (tons)                    | 36,294                       | 9567                       |
| Truckloads (at 25 tons/truck) of building debris | 218                          | 383                        |
| <b>Economic Losses</b>                           |                              |                            |
| Residential Building & Content Losses            | \$35,830,000                 | \$9,052,607                |
| Other Building & Content Losses                  | \$10,250,000                 | \$442,697                  |
| <b>Total Building &amp; Content Loss</b>         | <b>\$46,060,000</b>          | <b>\$9,495,304</b>         |
| <b>Total Business Interruption Losses</b>        | <b>\$6,380,000</b>           | <b>\$423,244</b>           |
| <b>TOTAL LOSSES</b>                              | <b>\$52,460,000</b>          | <b>\$9,918,548</b>         |

**Table 11-8: Estimated Damages to East Windsor from a Probabilistic Earthquake**

| Loss Type                        | 2018 Results    |
|----------------------------------|-----------------|
| Wage Loss                        | \$2,035         |
| Rent Loss                        | \$1,776         |
| Relocation Loss                  | \$2,740         |
| Income Loss                      | \$1,594         |
| Inventory Loss                   | \$264           |
| <b>Total Business Disruption</b> | <b>\$8,409</b>  |
| Structural Loss                  | \$5,736         |
| Non-Structural Loss              | \$16,105        |
| <b>Total Building Loss</b>       | <b>\$21,841</b> |
| <b>Total Content Loss</b>        | <b>\$6,253</b>  |
| <b>TOTAL LOSSES</b>              | <b>\$36,503</b> |

**Table 11-9: Estimated Damages to East Windsor from Modeled Earthquake Scenarios**

| Epicenter Location | Magnitude | Estimated Total Losses |
|--------------------|-----------|------------------------|
| East Haddam        | 6.4       | \$130,749.85           |
| Haddam             | 5.7       | \$25,494.79            |
| Portland           | 5.7       | \$54,897.50            |
| Stamford           | 5.7       | \$3,380.74             |

### *Average Annualized Losses*

Average Annualized Loss (AAL) figures are useful tools for comparison of the risks faced from different hazards with different likelihoods of occurring in a given time period. AAL estimates were prepared for East Windsor based on the methodologies discussed in Section II of the Multi-Jurisdictional HMP. Dam failure, drought, tornado, and wildfire losses were sourced from the 2014 Connecticut Natural Hazard Mitigation Plan Update, with dam failure data supplemented by the National Performance of Dams Program and the Connecticut Department of Energy & Environmental Protection. Earthquake and hurricane losses were calculated in HAZUS-MH. Losses for flooding came from NFIP claims, for winter storms from Public Assistance Reimbursements, and for thunderstorms from the NCEI database. These are



presented in the table below in dollars per year. Note that Hurricanes and Tropical Storms represent the largest share of total annualized losses.

**Table 11-10: Average Annualized Losses, East Windsor**

| Dam Failure | Drought | Earthquakes | Flooding | Hurricanes and Tropical Storms | Severe Winter Storms | Thunderstorms | Tornadoes | Wildfires | Total     |
|-------------|---------|-------------|----------|--------------------------------|----------------------|---------------|-----------|-----------|-----------|
| \$20        | \$0     | \$36,503    | \$7,939  | \$699,730                      | \$29,764             | \$1,482       | \$163,767 | \$4,879   | \$944,085 |

### Losses Summary

A review of the above loss estimates demonstrates that the Town of East Windsor has experienced significant expenses as a result of natural hazards, and is at risk for additional losses if some of the less-frequent events were to occur. These actual and potential losses justify hazard mitigation actions to reduce losses in the future.

### Mitigation Strategies and Actions

#### Status of Previous Mitigation Strategies and Actions

The Town of East Windsor reviewed the mitigation actions proposed in the 2014-2019 Capitol Region Natural Hazards Mitigation Plan Update and determined the status of each. That information is included in the table below.

**Table 11-11: Status of Previous Mitigation Strategies and Actions, East Windsor**

| Action #   | Action   | Notes   | Status                       |
|--|--|---|------------------------------|
| <b>GOAL: ENSURE SAFETY OF RESIDENTS AND PROPERTIES DURING PROLONGED POWER OUTAGES CAUSED BY WINTER STORMS, HURRICANES (HIGH WINDS), OTHER NATURAL DISASTERS, AND MANMADE DISASTERS SUCH AS TERRORISM OR ACCIDENTS.</b> |  |   |                              |
| <b>Objective 1: Ensure reliable alternative power sources at key government buildings.</b>   |  |   |                              |
| 1.1  | Obtain funding through grant opportunities and Town appropriation to place new gen-sets in High School, Town Garage (replace), Scout Hall and Broad Brook Middle School. | Town Garage generator replaced, portable generator for HS and middle school. Need hookups and electrical engineer to wire the HS for generator. | Carry Forward with Revisions |
| <b>Objective 2: Identify special needs individuals and establish means of communicating with the public.</b>   |  |   |                              |
| 2.1  | Continue to maintain special needs population lists.   | Town has a list but it has not been updated recently due to changes in administrative responsibilities.   | Carry Forward with Revisions |
| 2.2  | Familiarize town staff with Reverse-911 as system implementation begins.   | Action complete. Town now has functional Everbridge system.   | Complete                     |
| 2.3  | Use town media, including newsletter, website and other means to educate residents on personal planning for emergencies.   | This is part of the Town's standard operating procedures. This is a capability  | Capability                   |





| Action #  | Action  | Notes   | Status                       |
|---|---|---|------------------------------|
| <b>Objective 3: Maintain existing generator equipment.</b>  |   |   |                              |
| 3.1   | Obtain service contracts and maintain gen-sets at Police Department, Town Garage, Town Hall, Broad Book Fire, and the Prospect Hill Antenna site. | Public works holds service contracts. This is a capability.   | Capability                   |
| <b>Objective 4: Establish the East Windsor High School as a fully functional emergency shelter.</b> |   |   |                              |
| 4.1   | Maintain commitment from electrical contractor to supply 60 kW generator in times of mass power outage.   | This action will be phased-out: Town has acquired a portable generator for high school and middle school, now needs hookups and to rewire the high school for this generator. Once that is complete the 60W generator commitment will no longer be necessary. | Drop                         |
| 4.2   | Continue to train shelter staff associated with Emergency Management.   | Training is a capability, but Town has noted that it is difficult to attract volunteers.  | Capability.                  |
| 4.3   | Recruit more volunteers for shelter staff.  | Town has not succeeded in recruiting may volunteers and feels it is lacking in shelter staff.   | Carry Forward with Revisions |

### Active Mitigation Strategies and Actions

The Town proposed to initiate several new mitigation actions for the upcoming five years. Additionally, a number of actions from the previous planning period are being carried forward or replaced with revised actions. These are listed below.

Each of the following actions has been prioritized based on FEMA guidelines, listed from highest to lowest priority, and numbered.

| <b>Action #1</b>   |  |
|--|--|
| <b>Enter the Sustainable CT program through Registration and review actions that can be undertaken to pursue Certification. Make progress with the actions related to hazard mitigation.</b> |  |
| <b>Goal</b>  | 4. Increase the use of natural, "green," or "soft" hazard mitigation measures, such as open space preservation and green infrastructure. |
| <b>Category</b>  | Natural Resources Protection   |
| <b>Lead</b>  | Planning   |
| <b>Cost</b>  | \$0 - \$10,000   |
| <b>Funding</b>   | Town Operating Budget  |
| <b>Timeframe</b>   | 01/2019 - 12/2019  |
| <b>Priority</b>  | High   |



**Action #2**

**Assign maintenance of special needs population list to specific department to ensure annual updates.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 8. Ensure community character and social equity are addressed in mitigation activities |
| <b>Category</b>  | Preparedness & Emergency Response  |
| <b>Lead</b>      | Emergency Management   |
| <b>Cost</b>      | \$0 - \$10,000   |
| <b>Funding</b>   | Town Operating Budget  |
| <b>Timeframe</b> | 07/2019 - 06/2024  |
| <b>Priority</b>  | High   |

**Action #3**

**Hire an electrical engineer to wire the High School for a permanent generator.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 7. Improve the emergency response capabilities of the region and its communities |
| <b>Category</b>  | Preparedness & Emergency Response  |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | \$25,000 - \$50,000  |
| <b>Funding</b>   | Town Operating Budget / Grants / DEMHS   |
| <b>Timeframe</b> | 01/2020 - 12/2020  |
| <b>Priority</b>  | High   |

**Action #4**

**Conduct outreach to local small businesses with the aim of preventing the accidental release and pollution from chemicals stored and used at their facilities during or following natural hazard events.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 6. Improve public outreach, education, and warning systems |
| <b>Category</b>  | Education & Awareness                                      |
| <b>Lead</b>      | Planning, in coordination with DEEP                        |
| <b>Cost</b>      | \$0 - \$10,000   |
| <b>Funding</b>   | Materials & Resources Provided by CT DEEP                  |
| <b>Timeframe</b> | 01/2019 - 12/2019  |
| <b>Priority</b>  | Medium   |



**Action #5**

**Coordinate with NEMO and CROG to share resources and gain technical support for hazard mitigation actions involving stormwater management and public outreach, which have parallel benefits related to MS4 stormwater permit compliance.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 1. Minimize the impact of natural hazards on physical buildings and infrastructure |
| <b>Category</b>  | Prevention   |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | \$0 - \$10,000   |
| <b>Funding</b>   | Town Operating Budget  |
| <b>Timeframe</b> | 01/2020 - 12/2020  |
| <b>Priority</b>  | Medium   |

**Action #6**

**Increase use of social media to communicate with the community on planning for emergencies.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 6. Improve public outreach, education, and warning systems |
| <b>Category</b>  | Education & Awareness                                      |
| <b>Lead</b>      | Emergency Management                                       |
| <b>Cost</b>      | \$0 - \$10,000   |
| <b>Funding</b>   | Town Operating Budget                                      |
| <b>Timeframe</b> | 07/2020 - 06/2021  |
| <b>Priority</b>  | Medium   |

**Action #7**

**Participate in EMI courses or the seminars and annual conference held by the Connecticut Association of Flood Managers.**

|                  |   |
|------------------|---|
| <b>Goal</b>      | 3. Improve institutional awareness and understanding of natural hazard impacts and mitigation within municipal governments and other decision-making bodies |
| <b>Category</b>  | Education & Awareness   |
| <b>Lead</b>      | Planning  |
| <b>Cost</b>      | \$0 - \$10,000  |
| <b>Funding</b>   | Town Operating Budget   |
| <b>Timeframe</b> | 07/2019 - 06/2024   |
| <b>Priority</b>  | Medium  |



**Action #8**

**Improve ability of emergency responders to prepare & respond to wind events through training drills.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 7. Improve the emergency response capabilities of the region and its communities |
| <b>Category</b>  | Preparedness & Emergency Response  |
| <b>Lead</b>      | Emergency Management   |
| <b>Cost</b>      | \$10,000 - \$25,000  |
| <b>Funding</b>   | Town Operating Budget / DEMHS  |
| <b>Timeframe</b> | 07/2020 - 06/2022  |
| <b>Priority</b>  | Medium   |

**Action #9**

**Conduct an outreach program to recruit volunteers to staff emergency shelters.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 7. Improve the emergency response capabilities of the region and its communities |
| <b>Category</b>  | Education & Awareness  |
| <b>Lead</b>      | Emergency Management   |
| <b>Cost</b>      | \$10,000 - \$25,000  |
| <b>Funding</b>   | Town Operating Budget  |
| <b>Timeframe</b> | 01/2020 - 12/2022  |
| <b>Priority</b>  | Medium   |

**Action #10**

**Replace the emergency generator at the WPCA**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 7. Improve the emergency response capabilities of the region and its communities |
| <b>Category</b>  | Preparedness & Emergency Response  |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | \$10,000 - \$25,000  |
| <b>Funding</b>   | Town Operating Budget  |
| <b>Timeframe</b> | 07/2020 - 06/2022  |
| <b>Priority</b>  | Medium   |

**Action #11**

**Develop Open Space Plan to guide acquisition, preservation, & efforts to incentivize redevelopment and infill over development of new land. Consider hazard mitigation is in plan development.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 4. Increase the use of natural, "green," or "soft" hazard mitigation measures, such as open space preservation and green infrastructure. |
| <b>Category</b>  | Natural Resources Protection   |
| <b>Lead</b>      | Planning   |
| <b>Cost</b>      | \$50,000 - \$100,000   |
| <b>Funding</b>   | Grants   |
| <b>Timeframe</b> | 07/2023 - 06/2024  |
| <b>Priority</b>  | Medium   |



**Action #12**

**Implement recommendations of the study of the dam on Main Street near Depot Street intersection.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 1. Minimize the impact of natural hazards on physical buildings and infrastructure |
| <b>Category</b>  | Structural Projects  |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | \$50,000 - \$100,000   |
| <b>Funding</b>   | Grants   |
| <b>Timeframe</b> | 07/2023 - 06/2024  |
| <b>Priority</b>  | Medium   |

**Action #13**

**Implement recommendations of NRCS, including installation of a detention basin in Rockville Road/East Road area to reduce road closures and washouts.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 4. Increase the use of natural, "green," or "soft" hazard mitigation measures, such as open space preservation and green infrastructure. |
| <b>Category</b>  | Structural Projects  |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | \$50,000 - \$100,000   |
| <b>Funding</b>   | Grants   |
| <b>Timeframe</b> | 07/2023 - 06/2024  |
| <b>Priority</b>  | Medium   |

**Action #14**

**Increase the public works staff and equipment availability.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 7. Improve the emergency response capabilities of the region and its communities |
| <b>Category</b>  | Prevention   |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | More than \$100,000  |
| <b>Funding</b>   | Town Operating Budget  |
| <b>Timeframe</b> | 01/2022 - 12/2024  |
| <b>Priority</b>  | Medium   |



**Action #15**

**Coordinate with CT SHPO to conduct historic resource surveys, focusing on areas within natural hazard risk zones (such as flood or wildfire hazard zones and areas near steep slopes), to support identification of vulnerable historic properties and preparation of resiliency plans across the state. This action leverages existing resources and best practices for protection of historic and cultural resources through an ongoing statewide initiative by CT SHPO.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 8. Ensure community character and social equity are addressed in mitigation activities |
| <b>Category</b>  | Property Protection  |
| <b>Lead</b>      | Planning, in coordination with SHPO  |
| <b>Cost</b>      | \$10,000 - \$25,000  |
| <b>Funding</b>   | SHPO   |
| <b>Timeframe</b> | 07/2021 - 06/2023  |
| <b>Priority</b>  | Low  |

**Action #16**

**Install a hookup at the Middle School to allow a portable emergency generator to be connected.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 7. Improve the emergency response capabilities of the region and its communities |
| <b>Category</b>  | Preparedness & Emergency Response  |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | \$10,000 - \$25,000  |
| <b>Funding</b>   | Town Operating Budget  |
| <b>Timeframe</b> | 07/2021 - 06/2023  |
| <b>Priority</b>  | Low  |

**Action #17**

**Conduct a study to identify appropriate flood control measures and monitoring regimes for the WPCA and surrounding area, including Blue Ditch.**

|                  |   |
|------------------|---|
| <b>Goal</b>      | 3. Improve institutional awareness and understanding of natural hazard impacts and mitigation within municipal governments and other decision-making bodies |
| <b>Category</b>  | Structural Projects   |
| <b>Lead</b>      | Public Works  |
| <b>Cost</b>      | \$25,000 - \$50,000   |
| <b>Funding</b>   | Grants  |
| <b>Timeframe</b> | 07/2023 - 06/2024   |
| <b>Priority</b>  | Low   |



**Action #18**

**Work with property owners, contractors and the DEEP to regularly remove beaver dams causing flooding on East Road and elsewhere.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 1. Minimize the impact of natural hazards on physical buildings and infrastructure |
| <b>Category</b>  | Prevention   |
| <b>Lead</b>      | Public Works   |
| <b>Cost</b>      | \$25,000 - \$50,000  |
| <b>Funding</b>   | Town Operating Budget / Grants / CT DEEP   |
| <b>Timeframe</b> | 01/2023 - 12/2024  |
| <b>Priority</b>  | Low  |

**Action #19**

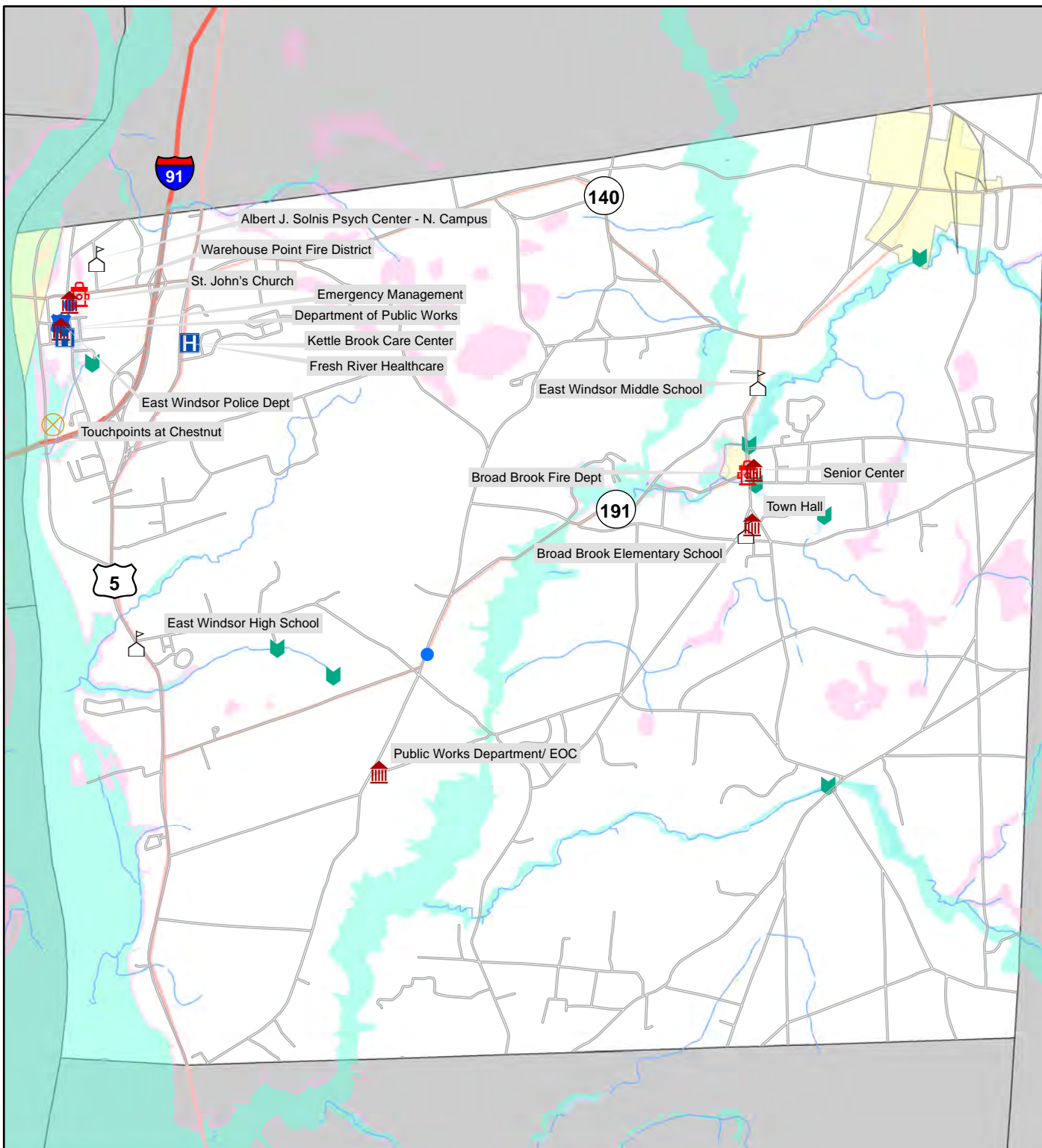
**Buyout property on the west side of South Water Street to avoid repetitive flooding in the area.**

|                  |  |
|------------------|--|
| <b>Goal</b>      | 1. Minimize the impact of natural hazards on physical buildings and infrastructure |
| <b>Category</b>  | Property Protection  |
| <b>Lead</b>      | Planning   |
| <b>Cost</b>      | More than \$100,000  |
| <b>Funding</b>   | Town Operating Budget / CT DEEP / DEMHS  |
| <b>Timeframe</b> | 07/2023 - 06/2024  |
| <b>Priority</b>  | Low  |














# Capitol Region Natural Hazards Mitigation Plan Update


## East Windsor, Connecticut Flood Plains, Dams & Critical Facilities





### Critical Facilities

-  Emergency Center
-  Fire Station
-  Healthcare Facility
-  Police Station
-  Public Infrastructure
-  School
-  State Facility
-  Town Facility
-  Waste Water Facility
-  NRHP Buildings/Sites
-  NRHP Districts/Areas

### Dam Hazard Class

-  A, AA, BB or Unclassified

### FEMA Flood Hazard Area

-  100 Year Flood Zone
-  500 Year Flood Zone

Data Sources: FEMA, National Register of Historic Places, CT DEEP, CRCOG, ESRI

