



38 Windsor Locks

Community Overview

Windsor Locks is a fully suburban community that encompasses only nine square miles but has a population of approximately 12,400. The land area of Windsor Locks ranges from about 75 to 150 feet above sea level and contributes to three watersheds: primarily the Connecticut River Mainstem, but also Stony Brook in the northwest and Farmington River in the southwest. The Connecticut River forms the eastern Town boundary. Other watercourses include Adds, Dibble Hollow, Kettle and Waterworks Brooks. Principal industries include food servicing and distribution, manufacture of aerospace products, paper products, electronics and machines. Hamilton Sundstrand is the Town's largest employer.

Major transportation routes through Windsor Locks include Interstate 91 and state routes 75, 140 and 159. In addition, highway 20, the connector between Interstate 91 and Bradley International Airport forms the southern town boundary. An Amtrak commuter rail line and the Hartford Line commuter rail each stop in the Town. The majority of Bradley International Airport, the second largest commercial airport in New England, is located within Windsor Locks, as well as significant numbers of hotels and related travel services. The Town reports that it has 1,600 hotel rooms, and 7 million people a year pass through Bradley International Airport.

Windsor Locks has very little undeveloped land, but continued development and redevelopment is expected. Several new neighborhoods, mostly single-story homes, have been developed in recent years. Montgomery Mill was being converted to apartments as this plan was being developed, and Windsor Locks is expecting a new train station and train stop. Many attempts have been made to develop a 70-acre parcel along Route 20, so far unsuccessfully. An area of open space at South Center Street and Old Common Road has been preserved by the water company.

Critical Facilities

Critical Facilities throughout the Capitol Region are listed in Appendix B. In Windsor Locks these include the Town Hall, Safety Complex (including police and fire), Senior Center, Public Works building, Water Pollution Control Facility (WPCF), six pump stations, the Eversource Substation on South Main Street, Bradley International Airport, a communication tower behind the Safety Complex, a High School, a Middle School, two Elementary Schools, two Senior Housing Complexes, Bickford Health Center, and Stonebrook Village assisted living. The Emergency Operations Center operates out of the Town Hall. The Windsor Locks High School is the primary shelter, and is used by Eversource as a staging area for storm response. The Town Hall and the Senior Center can function as a temporary shelter. The Town is interested in making South Street Elementary School, adjacent to the High School, into a backup shelter.

Table 38-1: Critical Facilities, Windsor Locks

Facility	Shelter	Generator
Town Hall (EOC)	Heating/Cooling Center	Yes
Safety Complex		Yes
Senior Center	Heating/Cooling Center	Yes
Water Pollution Control Facility		Yes
6 Pump Stations		Yes
Bradley International Airport		Yes
Communication Tower at Safety Complex		Yes
High School	Primary	80%
Middle School		
2 Elementary Schools		
2 Senior Housing Complexes		
Bickford Health Center		Yes
Stonebrook Village		Yes

Capabilities

Hazard mitigation is incorporated, to some degree, into the Windsor Locks Plan of Conservation and Development (POCD). POCD actions specifically address natural hazards. No construction has been permitted in flood prone areas since 2008.

Windsor Locks has a local CERT team.

The Town maintains a list of nuisance and high hazard flooding areas.

The Town has commissioned various efforts for the planning and revitalization of Main Street, including relocating the existing train station from the southern part of town to a downtown location, implementing traffic mitigation, and redeveloping Montgomery Mill. Opportunities for mitigation will be considered as planning efforts continue. The Town has also been working with property owners along the Connecticut River to encourage open space preservation, community gardens and other creative low impact uses on their lands.

Eversource maintains and trims trees along powerlines and provides the Town with other tree maintenance assistance. The Town does not trim trees but has the capacity to remove debris from roads.

Windsor Locks has two water tanks for firefighting water; one at the Safety Complex and one on Suffield Street. The Town does not have any dry hydrants, but two will be installed as part of the Montgomery Mill conversion project.

New Capabilities

Windsor Locks has acquired a new generator for the communication tower behind the Safety Complex.

Remediation of contaminants at the Montgomery Mills site has been completed. The building is currently being converted to apartments. Retaining walls have been repaired at the river,



and two areas of ongoing erosion have been stabilized with riprap, as per DEEP recommendations; other areas are stabilized with vegetative cover. A long linear bioswale has been constructed parallel to the river to better manage stormwater and mitigate runoff prior to water entering the river. The lower level of the mill is being used for storage and parking, and additional parking is available north of the property in the event of flooding of the lower parking area. The canal side of the property has been converted to a pedestrian promenade with emergency vehicle access possible. Land adjacent to the redeveloped Montgomery Mill will continue to be passive recreation, and a trailhead has been expanded to provide simple amenities such as benches and bike racks (which are properly anchored against flooding). An emergency management plan for the site has been filed with the Town to be carried out by the developer or property manager along with future residents.

Challenges

Challenges Overview

Flooding, high winds, and severe winter storms are the primary hazard of concern for Windsor Locks. Localized flooding and downed trees resulting in impassable roads continue to be a major worry for emergency response staff in terms of their ability to reach people in need. Several existing commercial and industrial buildings are located in identified hazard areas.

Contaminants have been recorded on the Ahlstrom Nonwovens LLC property; this is located on the Connecticut River and so is considered vulnerable. Other locations where hazardous materials are a concern include the United Technologies building, the train that traverses town with hazardous cargo, Interstate 91 and Route 20, a dedicated aviation fuel pipeline, a matrix of natural gas pipelines, the Co-Generation Plant on the bank of the Connecticut River, and the Fed-Ex and UPS trucking facilities.

Water Pollution Control staff are concerned with access to and shut-down of three locations: Dexter Pump Station, South Main Street Pump Station and the WPCF. Estimates of potential dollar losses to such structures range from \$750,000 to \$1.5-million for the Dexter Pump Station's contents and \$175,000 to \$250,000 for the South Main Street Pump Station's contents. The Public Works building, adjacent to the WPCF, is also located within a floodplain and is at risk of flooding and loss of access. Other areas of flood risk include:

- Center Street in front of the Middle School (this is identified as the biggest flood issue in Town)
- Main Street and Chestnut Street in front of the commons
- Main Street and Elm Street
- South Main Street near Interstate 91
- Reed Avenue and Saddler Street
- Spring Street and West Street
- Bristol Road
- Smalley Road at Spring Street and at North Street



Windsor Locks has experienced three tornadoes, historically. One was an F4. The Town has also experienced microbursts.

The Town has experienced brush fires in wetlands on South Center Streets near Waterworks Brook. The Town does not have any dry hydrants.

Hazard Losses

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

Historic FEMA Payments

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 NFIP has paid 12 property damage claims in Windsor Locks totaling \$174,036 to-date. Windsor Locks has one repetitive loss (RL) property with two claims totaling \$11,878.

Total PA reimbursements to the community were as follows:

- Flood Events: \$90,721 (\$4,775 annually)
- Hurricane Events: \$111,919 (\$5,890 annually)
- Winter Storm Events: \$6,078,189 (\$319,905 annually)

These are summarized in the tables below.

Table 38-2: Flood Event PA Reimbursements, Windsor Locks

Incident	Sep 1999	Oct 2005
Declaration	9/23/1999	12/16/2005
Disaster No.	1302	1619
Entity	FEMA PA Reimbursement	
State	\$580	\$11,906
Municipal	\$31,837	\$46,398
Nonprofit	\$0	\$0
Total	\$32,417	\$58,304
Annualized	\$1,706	\$3,069



Table 38-3: Hurricane Wind Event PA Reimbursements, Windsor Locks

Incident	Aug - Sep 2011 (T.S. Irene)
Declaration	9/2/2011
Disaster #	4023
Entity	FEMA PA Reimbursement
State	\$90,872
Municipal	\$21,047
Nonprofit	\$0
Total	\$111,919
Annualized	\$5,890

Table 38-4: Winter Storm PA Reimbursements, Windsor Locks

Incident	Mar 2003	Dec 2003	Jan 2005	Feb 2006	Jan 2011	Oct 2011	Feb 2013
Declaration	3/11/03	1/15/04	2/17/05	5/2/06	3/3/11	11/17/11	3/21/13
Disaster #	3176	3192	3200	3266	1958	4046	4106
Entity	FEMA PA Reimbursement						
State	\$10,837	\$14,873	\$27,663	\$32,344	\$396,615	\$3,471,375	\$189,467
Municipal	\$29,350	\$37,670	\$42,123	\$39,129	\$58,134	\$1,624,829	\$103,779
Nonprofit	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$40,187	\$52,543	\$69,786	\$71,473	\$454,749	\$5,096,205	\$293,246
Annualized	\$2,115	\$2,765	\$3,673	\$3,762	\$23,934	\$268,221	\$15,434

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 the community since 2012.

Table 38-5: NCEI Database Losses since 2012, Windsor Locks

Date	Event	Property Damage
7/18/2012	Lightning	\$1,000
8/9/2013	Flash Flood	\$0
9/11/2016	Thunderstorm Wind	\$5,000
7/12/2017	Hail	\$0
Total Thunderstorm		\$6,000
Total Flood		\$0

NCEI losses under other event categories (such as drought, high wind, flooding, and winter storms) were not specifically noted as impacting this community, 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 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 38-6: Estimated Damages to Windsor Locks from a 1% Annual-Chance Flood

Loss Type	2014 Results	2018 Results
Households Displaced	9	16
People Needing Shelter	10	7
Buildings at Least Moderately Damaged	0	0
Economic Losses		
Residential Building & Content Losses	\$630,000	\$1,797,152
Other Building & Content Losses	\$1,780,000	\$6,463,464
Total Building & Content Loss	\$2,410,000	\$8,260,616
Total Business Interruption Losses	\$10,000	\$485,244
TOTAL	\$2,420,000	\$8,745,860

Table 38-7: Estimated Damages to Windsor Locks from a 1% Annual-Chance Hurricane

Loss Type	2014 Results (1938 event)	2018 Results (1% track)
Buildings at Least Moderately Damaged	479	1
Buildings Completely Damaged	27	0
Total Debris Generated	14,968 tons	2247
Truckloads (at 25 tons/truck) of building debris	227	90
Economic Losses		
Residential Building & Content Losses	\$35,760,000	\$5,812,088
Other Building & Content Losses	\$11,300,000	\$443,015
Total Building & Content Loss	\$47,060,000	\$6,255,103
Total Business Interruption Losses	\$7,210,000	\$382,901
TOTAL LOSSES	\$54,270,000	\$6,638,004



Losses were calculated from a modeled probabilistic earthquake (1% annual-chance of occurrence), as well as for four specific scenarios with epicenters around Connecticut.

Table 38-8: Estimated Damages to Windsor Locks from a Probabilistic Earthquake

Loss Type	2018 Results
Wage Loss	\$2,628
Rent Loss	\$2,189
Relocation Loss	\$3,347
Income Loss	\$2,351
Inventory Loss	\$192
Total Business Disruption	\$10,707
Structural Loss	\$6,303
Non-Structural Loss	\$21,507
Total Building Loss	\$24,943
Total Content Loss	\$7,456
TOTAL LOSSES	\$43,015

Table 38-9: Estimated Damages to Windsor Locks from Modeled Earthquake Scenarios

Epicenter Location	Magnitude	Estimated Total Losses
East Haddam	6.4	\$110,601.56
Haddam	5.7	\$23,972.76
Portland	5.7	\$56,737.58
Stamford	5.7	\$4,107.48

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 each natural hazard which may impact the community 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 38-10: Average Annualized Losses, Windsor Locks

Dam Failure	Drought	Earthquakes	Flooding	Hurricanes and Tropical Storms	Severe Winter Storms	Thunderstorms	Tornadoes	Wildfires	Total
\$22	\$0	\$43,015	\$9,335	\$783,482	\$319,905	\$1,660	\$183,369	\$1,667	\$1,342,484



Losses Summary

A review of the above loss estimates demonstrates that the Town of Windsor Locks 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 Windsor Locks 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 38-11: Status of Previous Mitigation Strategies and Actions, Windsor Locks

Action #	Action	Notes	Status
GOAL: REDUCE THE LOSS OF LIFE AND PROPERTY AND THE ECONOMIC CONSEQUENCES THAT RESULT FROM FLOODING, HIGH WINDS, SEVERE WINTER STORMS AND OTHER NATURAL DISASTERS. REDUCE LOSS OF ACCESS AND POWER TO SIGNIFICANT BUILDINGS SUCH AS WATER POLLUTION CONTROL FACILITY, DEXTER PUMP STATION, SOUTH MAIN PUMP STATION, SCHOOLS, SENIOR CENTER, REHAB CENTER, TOWN BUILDINGS USE FOR EMERGENCY PURPOSES. INCREASE RESIDENT AND BUSINESS EMPLOYEE KNOWLEDGE OF WARNING SYSTEMS.			
Objective 1: Reduce future flooding by improving, modifying and/or replacing existing man-made and natural drainage systems.			
1.1	Address drainage issues on Papermill Brook at Center Street/ Whitton Street.	Some work has been done but this is still an issue. A new homeowner was removed from the area.	Carry Forward with Revisions
1.2	Address drainage issues at Chestnut and Main Streets.	Drainage system was cleaned and a trash rack installed. Property owner is not maintaining it.	Carry Forward with Revisions
1.3	Address drainage issues on Kettle Brook at Middle School on Center Street.	Town has performed cleanings of system but needs homeowner to help with maintenance. Future cleanouts will be undertaken on an as needed basis	Carry Forward with Revisions
1.4	Address drainage issues on Industrial Road.	Action not yet completed due to limited resources.	Carry Forward
1.5	Address drainage issues at West and Spring Streets.	Action not yet completed due to limited resources.	Carry Forward
1.6	Address drainage issues in the Smally Road area.	Action not yet completed due to limited resources.	Carry Forward
1.7	Address drainage issues on Bristol Road.	Action not yet completed due to limited resources.	Carry Forward
1.8	Address drainage issues at Dibble Hollow and Bel Air Circle.	Action not yet completed due to limited resources.	Carry Forward
1.9	Address drainage issues at Gaylord and Lowndes Drive.	Action not yet completed due to limited resources.	Carry Forward



Action #	Action	Notes	Status
Objective 2: Educate the property owners and business owners about updated horns and public address system, Everbridge alerts and tones.			
2.1	Work with school system to reach out to students/families to educate public.	Produced brochure for students, need to use Everbridge and Parent Link.	Completed
2.2	Use local advertising opportunities to educate public.	Outreach will be conducted periodically and prior to anticipated major storm events.	Capability
Objective 3: Ensure that new development will not increase flooding threats to existing properties.			
3.1	Review, amend as necessary, and enforce land use regulations.	Flood regulations have become more restrictive. No low impact development regulations.	Carry Forward with Revisions
Objective 4: Ensure continuity of public services during power outages.			
4.1	Provide generators for critical town facilities.	Complete except for South Elementary. Need to add natural gas to public safety complex.	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.

Action #1	
Maintain trash rack at Chestnut and Main Streets.	
Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Prevention
Lead	Public Works
Cost	\$0 - \$10,000
Funding	Town Operating Budget
Timeframe	01/2019 - 12/2019
Priority	High



Action #2

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.

Goal	4. Increase the use of natural, "green," or "soft" hazard mitigation measures, such as open space preservation and green infrastructure.
Category	Natural Resources Protection
Lead	Planning
Cost	\$0 - \$10,000
Funding	Town Operating Budget
Timeframe	01/2019 - 12/2019
Priority	High

Action #3

Address plumbing issues at Waterworks Property, particularly exposed and eroded pipe.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	\$10,000 - \$25,000
Funding	Town Operating Budget
Timeframe	07/2019 - 06/2021
Priority	High

Action #4

Develop designs and a cost-estimate for elevation of the fueling tank at the 1 Stanton Road DPW site; tank is currently underground and at-risk of being impacted by flooding.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	\$10,000 - \$25,000
Funding	Town Operating Budget / Grants
Timeframe	07/2019 - 06/2021
Priority	High



Action #5

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.

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

Action #6

Coordinate with NEMO and CRCOG 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.

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

Action #7

Review land use regulations (other than the recently updated flood regulations) to determine their effectiveness at minimizing natural hazard exposure, and amend as necessary.

Goal	2. Ensure Municipal Codes and Regulations support hazard mitigation
Category	Prevention
Lead	Planning
Cost	\$0 - \$10,000
Funding	Town Operating Budget
Timeframe	07/2020 - 06/2021
Priority	Medium



Action #8

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

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

Action #9

Work with MDC to identify potential hazard mitigation actions for MDC facilities, and list those actions in the next HMP Update.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Property Protection
Lead	Public Works
Cost	\$10,000 - \$25,000
Funding	Town Operating Budget / DEMHS
Timeframe	07/2020 - 06/2022
Priority	Medium

Action #10

Develop a list of local resources, including non-profits, volunteers, and gas-stations and grocery stores with emergency generators, to distribute to residents prior to forecast hazard events.

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



Action #11

Add generator to South Elementary and add natural gas to Public Safety Complex.

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

Action #12

Conduct annual outreach campaign to educate residents on signing up for emergency alerts, building and maintaining disaster plans and kits, and improving their disaster readiness.

Goal	7. Improve the emergency response capabilities of the region and its communities
Category	Education & Awareness
Lead	Emergency Management
Cost	\$10,000 - \$25,000
Funding	Town Operating Budget
Timeframe	07/2019 - 06/2024
Priority	Medium

Action #13

Identify emergency response needs and possible solutions with regards to space, generators, and equipment. Consider ADA compliance, equipment storage, and availability of portable generators.

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



Action #14

Address drainage issues on Papermill Brook at Center Street/ Whitton Street.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium

Action #15

Address drainage issues on Kettle Brook at Middle School on Center Street in conjunction with homeowner.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium

Action #16

Address drainage issues on Industrial Road.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium



Action #17

Address drainage issues at West and Spring Streets.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium

Action #18

Address drainage issues in the Smally Road area.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium

Action #19

Address drainage issues on Bristol Rd.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium



Action #20

Address drainage issues at Dibble Hollow & Bel Air Circle.

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium

Action #21

Address drainage issues at Gaylord and Lowndes Drive

Goal	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
Category	Structural Projects
Lead	Public Works
Cost	More than \$100,000
Funding	Town Operating Budget / Grants / DEMHS
Timeframe	07/2022 - 06/2024
Priority	Medium

Action #22

Contact the owners of Repetitive Loss Properties and nearby properties at risk to inquire about mitigation undertaken and suggest options for mitigating flooding in those areas. This should be accomplished with a letter directly mailed to each property owner.

Goal	1. Minimize the impact of natural hazards on physical buildings and infrastructure
Category	Property Protection
Lead	Planning
Cost	\$0 - \$10,000
Funding	Town Operating Budget / DEMHS
Timeframe	07/2021 - 06/2022
Priority	Low



Action #23

Work with school systems to conduct outreach using Everbridge and Parent Link.

Goal	6. Improve public outreach, education, and warning systems
Category	Education & Awareness
Lead	Emergency Management
Cost	\$0 - \$10,000
Funding	Town Operating Budget
Timeframe	01/2021 - 12/2022
Priority	Low

Action #24

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.

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

Action #25

Conduct natural hazard education outreach at least once annually using social media, occasional mailings, and town events.

Goal	6. Improve public outreach, education, and warning systems
Category	Education & Awareness
Lead	Emergency Management
Cost	\$10,000 - \$25,000
Funding	Town Operating Budget
Timeframe	07/2019 - 06/2024
Priority	Low














Capitol Region Natural Hazards Mitigation Plan Update




Windsor Locks, Connecticut

Flood Plains, Dams & Critical Facilities




Critical Facilities

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

Dam Hazard Class

-  BB, A, AA OR Unclassified
-  Class B - Significant Hazard
-  Class C - High Hazard

FEMA Flood Hazard Area

-  100 Year Flood Zone
-  500 Year Flood Zone
-  NRHP Districts/Areas

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



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