



## 35 Wethersfield

### Community Overview

Wethersfield encompasses a land area of 12.4 square miles and has a population around 26,668 (2010 Census). Wethersfield's land area falls primarily in the Connecticut River mainstem Watershed, although the northeast corner lies in the Park River Watershed. The Connecticut River flows along the eastern boundary. Other watercourses include Beaver, Folly, Two Stone, Collier and Goff Brooks. Major transportation routes in Town include Interstate 91 and State routes 3, 5/15, 99, 175, 287, and 314. Principal industries include professional offices, retail, restaurants, Kell-Strom, printing, medical offices, and State offices including the Departments of Corrections, Labor, and Motor Vehicles, and the Connecticut Judicial Branch. A Capitol Region Education Council (CREC) School has recently been constructed on what was previously the Northeast Utilities Headquarters.

### Critical Facilities

Critical Facilities throughout the Capitol Region are listed in Appendix B. In Wethersfield these include the Town Hall, High School, Community Center, three Fire Stations, a volunteer ambulance facility, the Nature Center, the Public Works building, a fueling station, and the new CREC School. The Emergency Operations Center (EOC) is housed in the Town Hall.

**Table 35-1: Critical Facilities, Wethersfield**

Facility	Shelter	Generator
Town Hall (EOC)		X
Community Center	Primary	X
High School	Secondary	X
CREC School		
3 Fire Stations		X
Nature Center	Animal	X
Volunteer Ambulance		X
Public Works		X
Fueling Station		X

Since adoption of the 2014-2019 Capitol Region Natural Hazards Mitigation Plan Update ("2014 HMP"), a generator has been installed at the High School, which has been designated as the Town's secondary shelter. The Community Center is the primary shelter, and the Nature Center houses an emergency animal shelter.

### Capabilities

Hazard mitigation is incorporated, to some degree, into Wethersfield's Plan of Conservation and Development (POCD). POCD actions specifically address natural hazards.

Since the 2014 HMP, the High School has been designated as a secondary shelter and the Nature Center has been fitted with an emergency animal shelter. The Town's shelters are

considered to be adequate. FEMA mitigation grant funds were used to acquire eight generators for critical facilities, including the three fire stations and the volunteer ambulance facility. The generator at the Public Works is elevated above the BFE, and the fueling station was upgraded in 2017.

Much of the area of Wethersfield at risk of flooding is within the Connecticut River floodplain and is zoned for agricultural use (Zone AG). The AG Zone limits uses to those associated with farming, open space, and municipal recreation; a limited number of other uses are allowed by special permit only. The Town has completed several drainage improvements to address localized flooding and continues to address problems, primarily through the annually-reviewed capital improvements program. Since 2008, the Town has not permitted any new homes within the 1-percent annual-chance floodplain. Applications for construction of minor improvements have been permitted contingent on no loss of flood storage. The Town Engineer is the Town's Floodplain Manager.

Wethersfield works closely with the energy provider Eversource to mitigate power outages caused by natural hazards. The Town's Tree Warden is responsible for tree maintenance and trimming, and reports to the Physical Services department. Wethersfield shares a tree truck with two other towns.

Wethersfield uses salt, not sand, for winter road maintenance. The Town watches buildings carefully during heavy snow events to ensure their roofs do not collapse. Tremco roofing is used on Town Buildings to mitigate snow and wind damage.

### New Capabilities

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In 2016 the Town provided FEMA with comments about areas that appear to be inaccurate on flood maps; the Town is waiting for FEMA to determine whether a Letter of Map Revision (LOMR) is warranted.

Wethersfield is in the process of implementing new MS4 stormwater management guidelines; the Town believes this will result in increased green infrastructure, reduced flood risks, and increased outreach and education about flood risks, particularly online. The MDC water company is conducting projects to reduce Combined Sewer Overflow (CSO) to Goff Brook; this work is expected to have secondary flood mitigation impacts.

The Cloverdale Pond dam was recently rehabilitated, with the spillway capacity improved. This may limit flooding of the Town's property and has lowered the risk of dam failure. The consultant GZA has completed inspections of the eight other Town-owned dams and the Town will use that information to guide future dam-hazard mitigation actions. State Bond funds have been requested to address maintenance and repair needs at Bell Pond Dam.

CT DOT has recently installed standpipes along I-91 for fire protection, at the Town's request.



## Challenges

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### Challenges Overview

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Flooding and winter storms are thought to be the most significant hazards facing Wethersfield. Thirty percent of the Town lies within 1-percent annual-chance floodplains associated with watercourses such as Folly, Beaver, Cemetery and Goff Brooks, and the Connecticut River.

The Public Works facility is located within the Connecticut River SFHA and much of it is below the BFE. The facility is somewhat constricted by I-91 and other developed areas and its hazard-event response capabilities are hindered by limited space. Additionally, the salt shed is in need of an upgrade and is vulnerable to flooding.

The Bell Pond Dam needs maintenance and repair. State Bond funds have been requested to address this.

Thunderstorms and associated high winds are a concern for the Town. A tornado in 2009 continues to be a notable storm in the Town. The Town's shared Tree-Truck allows the Town to remove trees and debris, but because of its shared nature is not always available when needed.

Ice storms continue to be a concern for the Town, though they have not experienced one in a number of years. The Town does not have sufficient space for storage of cleared snow after major storms. The greatest costs to the Town from winter storms tend to be personnel and salt/deicing material.

### Hazard Losses

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The economic losses faced by the community 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 NFIP has paid 69 property damage claims in Wethersfield totaling \$350,144 to-date. Also, 11 Repetitive Loss (RL) Property claims on five properties in Wethersfield have been paid to-date totaling \$32,531.

Total PA reimbursements to the community were as follows:

- Flood Events: \$37,374 (\$1,967 annually)
- Hurricane Events: \$225,979 (\$11,894 annually)
- Winter Storm Events: \$2,510,561 (\$132,135 annually)



These are summarized in the tables below.

**Table 35-2: Flood Event PA Reimbursements, Wethersfield**

<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>	\$1,237	\$1,534
<b>Municipal</b>	\$0	\$34,603
<b>Nonprofit</b>	\$0	\$0
<b>Total</b>	<b>\$1,237</b>	<b>\$36,137</b>
<b>Annualized</b>	<b>\$65</b>	<b>\$1,902</b>

**Table 35-3: Hurricane Wind Event PA Reimbursements, Wethersfield**

<b>Incident</b>	Aug - Sep 2011 (T.S. Irene)	Oct - Nov 2012 (Storm Sandy)
<b>Declaration</b>	9/2/2011	10/30/2012
<b>Disaster #</b>	4023	4087
<b>Entity</b>	<b>FEMA PA Reimbursement</b>	
<b>State</b>	\$62,779	\$7,702
<b>Municipal</b>	\$154,643	\$0
<b>Nonprofit</b>	\$0	\$854
<b>Total</b>	<b>\$217,423</b>	<b>\$8,556</b>
<b>Annualized</b>	<b>\$11,443</b>	<b>\$450</b>

**Table 35-4: Winter Storm PA Reimbursements, Wethersfield**

<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>	\$23,123	\$20,729	\$32,653	\$38,058	\$46,615	\$197,341	\$181,476
<b>Municipal</b>	\$58,486	\$86,299	\$96,720	\$108,843	\$118,492	\$1,208,687	\$269,383
<b>Nonprofit</b>	\$0	\$0	\$0	\$0	\$10,866	\$11,097	\$1,696
<b>Total</b>	<b>\$81,609</b>	<b>\$107,028</b>	<b>\$129,373</b>	<b>\$146,901</b>	<b>\$175,972</b>	<b>\$1,417,125</b>	<b>\$452,554</b>
<b>Annualized</b>	<b>\$4,295</b>	<b>\$5,633</b>	<b>\$6,809</b>	<b>\$7,732</b>	<b>\$9,262</b>	<b>\$74,586</b>	<b>\$23,819</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 the community since 2012.



**Table 35-5: NCEI Database Losses since 2012, Wethersfield**

Date	Event	Property Damage
7/18/2016	Thunderstorm Wind	\$15,000
10/24/2017	Strong Wind	\$1,500
<b>Total</b>		<b>\$16,500</b>

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 to the City 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 35-6: Estimated Damages to Wethersfield from a 1% Annual-Chance Flood**

Loss Type	2014 Results	2018 Results
Households Displaced	238	670
People Needing Shelter	518	1242
Buildings at Least Moderately Damaged	7	10
<b>Economic Losses</b>		
Residential Building & Content Losses	\$7,280,000	\$42,064,909
Other Building & Content Losses	\$13,560,000	\$50,094,666
<b>Total Building &amp; Content Loss</b>	<b>\$20,840,000</b>	<b>\$92,159,575</b>
<b>Total Business Interruption Losses</b>	<b>\$120,000</b>	<b>\$1,654,263</b>
<b>TOTAL</b>	<b>\$20,960,000</b>	<b>\$93,813,838</b>



**Table 35-7: Estimated Damages to Wethersfield from a 1% Annual-Chance Hurricane**

Loss Type	2014 Results (1938 event)	2018 Results (1% track)
Buildings at Least Moderately Damaged	1,280	1
Buildings Completely Damaged	95	0
Total Debris Generated	30,500 tons	4047
Truckloads (at 25 tons/truck) of building debris	582	162
<b>Economic Losses</b>		
Residential Building & Content Losses	\$121,653,000	\$15,874,088
Other Building & Content Losses	\$15,500,000	\$444,831
<b>Total Building &amp; Content Loss</b>	<b>\$137,153,000</b>	<b>\$16,318,919</b>
<b>Total Business Interruption Losses</b>	<b>\$16,680,000</b>	<b>\$561,478</b>
<b>TOTAL LOSSES</b>	<b>\$154,000,000</b>	<b>\$16,880,397</b>

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 35-8: Estimated Damages to Wethersfield from a Probabilistic Earthquake**

Loss Type	2018 Results
Wage Loss	\$3,791
Rent Loss	\$3,151
Relocation Loss	\$5,580
Income Loss	\$2,806
Inventory Loss	\$176
<b>Total Business Disruption</b>	<b>\$15,504</b>
Structural Loss	\$10,237
Non-Structural Loss	\$35,338
<b>Total Building Loss</b>	<b>\$45,575</b>
<b>Total Content Loss</b>	<b>\$13,923</b>
<b>TOTAL LOSSES</b>	<b>\$75,002</b>

**Table 35-9: Estimated Damages to Wethersfield from Modeled Earthquake Scenarios**

Epicenter Location	Magnitude	Estimated Total Losses
East Haddam	6.4	\$616,803.35
Haddam	5.7	\$231,536.63
Portland	5.7	\$1,392,290.60
Stamford	5.7	\$8,038.82

### *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 New Britain 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 35-10: Average Annualized Losses, Wethersfield**

Dam Failure	Drought	Earthquakes	Flooding	Hurricanes and Tropical Storms	Severe Winter Storms	Thunderstorms	Tornadoes	Wildfires	Total
\$48	\$0	\$75,002	\$11,181	\$1,671,778	\$132,135	\$3,542	\$391,269	\$2,288	\$2,287,243

### Losses Summary

A review of the above loss estimates demonstrates that the Town of Wethersfield 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

#### Noted Hazard Mitigation Needs

During development of this plan, specific hazard mitigation needs of Wethersfield were noted.

- The Town would like to expand its public works facility to improve response capabilities, to replace the existing salt shed with an upgraded and flood-proofed structure, and ultimately to relocate the entire facility.
- The Town wishes to identify an area for snow storage.

#### Status of Previous Mitigation Strategies and Actions

The Town of Wethersfield reviewed the mitigation actions proposed in the 2014 HMP and determined the status of each. That information is included in the table below.

**Table 35-11: Status of Previous Mitigation Strategies and Actions, Wethersfield**

Action #	Action	Notes	Status
<b>GOAL: REDUCE LOSS OF LIFE, PROPERTY DAMAGE AND ECONOMIC CONSEQUENCES AS A RESULT OF WINTER STORMS</b>			
<b>Objective 1: Improve the ability of public works to prepare and respond to severe weather.</b>			
1.1	Replace/enlarge sand/salt storage facility.	Limited progress; town has been pursuing FEMA funds. Last contact with DEMHS was fall 2017. Facility is in the CT River flood zone. A lack of damage figures has impeded ability to do BCA and apply to FEMA.	Carry Forward with Revisions



Action #	Action	Notes	Status
1.2	Expand capacity for public works trucks and equipment storage. Because this is expected to be a long term, multi-year project, for the 2014-2019 Plan period, the action to be taken is to develop a scope of work for this project.	A scope of work has been developed; however the facility is landlocked and space is limited, so the town hasn't been able to make additional progress.	Carry Forward with Revisions
1.3	Consider relocation of public works facility out of flood hazard area. Because this is expected to be a long term, multi-year project, for the 2014-2019 Plan period, the action to be taken is to develop a scope of work for this project.	No progress has been made due to limited resources.	Carry Forward
<b>GOAL: MINIMIZE DAMAGE CAUSED BY HIGH WINDS</b>			
<b>Objective 1: Improve preventive tree maintenance in local right-of-way and on town properties.</b>			
1.1	Conduct a tree inventory. (This is expected to be a long term multi-year project).	Eversource worked with the town over a few years to complete this. This is now a capability.	Capability
1.2	Formulate maintenance plan based on inventory and integrate it into Public Works operating budget.	The tree warden is responsible for developing tree maintenance plan, and is within Public Works	Completed
<b>Objective 2: Minimize power outages and related impacts.</b>			
2.1	Determine areas in Town with frequent outages.	Eversource worked with the town over a few years to complete this.	Completed
2.2	Work with Connecticut Light & Power for aggressive tree pruning program	Eversource worked with the town over a few years to complete this. This is now a capability.	Capability
2.3	Work with Connecticut Light & Power to relocate distribution underground in repetitive outage areas, or harden facilities remaining overhead. This is expected to be a long term multi-year project.	There is limited interest in this now. Prevention and maintenance has been preferred.	Drop
2.4	Consider full time emergency power generators at all MDC sewage pump stations.	MDC can deploy generators to pumping stations and use quick-connects. Permanent generators are not needed.	Drop
2.5	Consider full time emergency power generators at fuel tank distribution terminals. This is expected to be a long term multi-year project.	The generator at physical services is capable of sustaining fuel distribution during an outage.	Completed
2.6	Consider full time emergency power generators at all private cell service providers and at all shelters and back up shelters.	The Town has received 8 generators with FEMA funds that are installed at shelters. Mobile Phone Towers are not under Town jurisdiction.	Completed





Action #	Action	Notes	Status
<b>GOAL: REDUCE LOSS OF LIFE, PROPERTY DAMAGE AND ECONOMIC CONSEQUENCES AS A RESULT OF FLOODING</b>			
<b>Objective 1: Implement remaining recommended measures from 1995 town-wide watershed management study and other priority drainage and infrastructure projects.</b>			
1.1	Pursue opportunities to implement further dredging and drainage projects through the capital improvement program and any other available funding sources.	Dredging and drainage projects are listed in the CIP as needed. One such project is the Cloverdale Pond dam rehabilitation, which has been completed. This is a capability. Specific actions to be included in the CIP will be listed in this update.	Capability
1.2	Improve natural and artificial drainage areas that affect road flooding.	Additional progress is desired. This general action is dropped and replaced with specific actions.	Drop
1.3	Investigate making improvements to channel and underground conduit of Folly Brook with Army Corps of Engineers. Because this is expected to be a long term, multi-year project, for the 2014-2019 Plan period, the action to be taken is to develop a scope of work for the project.	No progress from the Town due to limited resources. MDC has conducted projects that affect Folly Brook in the vicinity of Hartford Avenue & Silas Dean, where the spillway from Hartford is located. Town no longer feels this action is necessary.	Drop
1.4	Develop plan for relocating public works equipment in the event of flooding of Town Garage. Because this is expected to be a long term, multi-year project, for the 2014-2019 Plan period, the action to be taken is to develop a scope of work for the project.	No available land has been identified. Combine with other Public Works capacity expansion and relocation actions listed above.	Drop
<b>Objective 2: Ensure safety of residents and businesses in all areas of Wethersfield during flood events.</b>			
2.1	Educate residents on new flood zone maps via website, public access portals.	Outreach related to new flood maps is done. Some additional progress has been made. New MS4 requirements will result in additional information posted to the web site	Completed
2.2	Explore participation in FEMA's Community Rating System program to reduce flood insurance premiums for residents.	Limited progress has been made on this action. Carry forward revised action.	Carry Forward with Revisions
2.3	Ensure that any future development within town Agricultural (AG) zone will not increase the risk of flooding and is built to withstand flooding.	The Town's regulations accomplish this goal. This is a capability	Capability
2.4	Actively participate in and monitor planning and implementation of MDC's Clean Water Project.	This is an established practice. This is a capability	Capability
2.5	Evaluate impact of flooding on Historic District significant buildings and provide protective measures.	Progress has not been made due to lack of resources and expertise. Town will incorporate specific actions from the CT SHPO historic resources resiliency planning project.	Carry Forward with Revisions



Action #	Action	Notes	Status
2.6	Investigate and train with City Hartford on operation of levee flood gates.	Wethersfield does not have a role in this process.	Drop

### 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.

<i>Action #1</i>	
<b>Identify strategies for making expansion of capacity for public works trucks and equipment storage more achievable.</b>	
<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>	\$0 - \$10,000
<b>Funding</b>	Town Operating Budget
<b>Timeframe</b>	01/2019 - 12/2019
<b>Priority</b>	High

<i>Action #2</i>	
<b>Identify strategies for making replacement or enlargement of sand/salt storage facility more achievable. Track damages to sand/salt storage facility so that a BCA can be completed.</b>	
<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>	\$0 - \$10,000
<b>Funding</b>	Town Operating Budget
<b>Timeframe</b>	01/2019 - 12/2019
<b>Priority</b>	High



**Action #3**

**Develop a long-range plan for expansion of the Public Works building capacity and relocation outside of flood zone.**

<b>Goal</b>	1. Minimize the impact of natural hazards on physical buildings and infrastructure
<b>Category</b>	Property Protection
<b>Lead</b>	Public Works
<b>Cost</b>	\$10,000 - \$25,000
<b>Funding</b>	Town Operating Budget / Grants
<b>Timeframe</b>	07/2019 - 06/2021
<b>Priority</b>	High

**Action #4**

**Repair washout around the east abutment for Jenson Dam at 45 Highland Street.**

<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>	07/2021 - 06/2022
<b>Priority</b>	High

**Action #5**

**Add a double catch basin at 222 Ridge Road to address road flooding, which overflows and floods downstream homes in Ridge Crest Place (requires CCTV inspection first).**

<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>	More than \$100,000
<b>Funding</b>	Grants
<b>Timeframe</b>	07/2022 - 06/2023
<b>Priority</b>	High



**Action #6**

**Perform the necessary repairs to the spillway at Wintergreen Woods.**

<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>	More than \$100,000
<b>Funding</b>	Grants
<b>Timeframe</b>	07/2022 - 06/2023
<b>Priority</b>	High

**Action #7**

**Reconstruct the earthen berm at Spring Street Skate Pond Dam, perform emergency spillway and outlet improvements (compare to Dam Inspection Report).**

<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>	More than \$100,000
<b>Funding</b>	Grants
<b>Timeframe</b>	07/2022 - 06/2023
<b>Priority</b>	High

**Action #8**

**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 #9**

**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.**

<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 #10**

**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 #11**

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

<b>Goal</b>	5. Improve the resilience of local and regional utilities and infrastructure using strategies including adaptation, hardening, and creating redundancies.
<b>Category</b>	Property Protection
<b>Lead</b>	Public Works
<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 #12**

**Complete an analysis of costs and benefits of joining the FEMA Community Rating System. If benefits outweigh the costs, perform outreach to gain public and stakeholder support for joining FEMA CRS.**

<b>Goal</b>	9. Minimize the economic impact of hazard damages
<b>Category</b>	Prevention
<b>Lead</b>	Planning
<b>Cost</b>	\$10,000 - \$25,000
<b>Funding</b>	Town Operating Budget / Grants
<b>Timeframe</b>	07/2020 - 06/2022
<b>Priority</b>	Medium

**Action #13**

**Dredge sediment from Griswold Pond to improve the water quality.**

<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>	Grants
<b>Timeframe</b>	01/2021 - 12/2023
<b>Priority</b>	Medium

**Action #14**

**Olsen House Ditch improvements: design and construct a 24" RCP to replace an open rip rap ditch and backfill the area to eliminate the need for guiderail.**

<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 #15**

**Perform design and permitting for Bell Pond dredging and reconstruction of Bell Pond Dam spillway with miscellaneous improvements to improve water quality and protect downstream properties (Moderate Hazard Class Dam per DEEP).**

<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 #16**

**Complete Culvert Replacements listed in the CIP: Carriage Hill Drive, Coppermill Road, Fox Hill Road, Highland Street, and Lantern Lane.**

<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>	More than \$100,000
<b>Funding</b>	Grants
<b>Timeframe</b>	07/2022 - 06/2024
<b>Priority</b>	Medium

**Action #17**

**Complete extension of storm drainage (piping & CBs) in Nott St and reconstructing a portion of Heather Drive with new underdrains to address persistent icing problem.**

<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>	More than \$100,000
<b>Funding</b>	Grants
<b>Timeframe</b>	07/2022 - 06/2024
<b>Priority</b>	Medium



**Action #18**

**Install 2 CBs and piping at intersection of Timber Trail with Cornish Rd to address issues with flooding homes on Timber Trail.**

<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>	More than \$100,000
<b>Funding</b>	Grants
<b>Timeframe</b>	07/2022 - 06/2024
<b>Priority</b>	Medium

**Action #19**

**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.**

<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>	\$0 - \$10,000
<b>Funding</b>	Town Operating Budget / DEMHS
<b>Timeframe</b>	07/2021 - 06/2022
<b>Priority</b>	Low

**Action #20**

**Identify additional space for snow storage and disposal.**

<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>	\$0 - \$10,000
<b>Funding</b>	Town Operating Budget
<b>Timeframe</b>	01/2021 - 12/2022
<b>Priority</b>	Low





**Action #21**

**Seek Certification within the Sustainable CT program and make progress with the hazard mitigation goals associated with SustainableCT certified actions.**

<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>	07/2021 - 06/2022
<b>Priority</b>	Low

**Action #22**

**Work with CT DEEP to complete a formal validation of the Repetitive Loss Property list and update the mitigation status of each listed property.**

<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>	\$10,000 - \$25,000
<b>Funding</b>	Town Operating Budget / CT DEEP / DEMHS
<b>Timeframe</b>	07/2021 - 06/2023
<b>Priority</b>	Low

**Action #23**

**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 #24**

**Install an underdrain on Olney Road behind eastern curb line to protect road base and alleviate flooding.**

<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>	Low

**Action #25**

**Perform actions listed in the 1995 Town Wide Drainage Study as listed in the CIP: Goff Road Detention Pond Construction, Sunset Boulevard, Surrey Drive Swale, Tanglewood construction.**

<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>	More than \$100,000
<b>Funding</b>	Grants
<b>Timeframe</b>	07/2023 - 06/2024
<b>Priority</b>	Low












# Capitol Region Natural Hazards Mitigation Plan Update




## Wethersfield, 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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