



9.2 TOWN OF AVON

This section presents the jurisdictional annex for the Town of Avon. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the Town of Avon and who in the Town participated in the planning process; an assessment of the Town of Avon’s risk and vulnerability; the different capabilities utilized in the Town; and an action plan that will be implemented to achieve a more resilient community.

9.2.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Town of Avon’s hazard mitigation plan primary and alternate points of contact. The Town of Avon followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Town departments, including: Town Board, Highway Department, and Code Office. The Town Supervisor represented the community on the Livingston County Hazard Mitigation Plan Planning Partnership, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the Town of Avon’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.2-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Sharon Knight, Town Clerk Address: 23 Genesee Street, Avon, NY 14414 Phone Number: (585) 226-2425 Email: sknight@avon-ny.org	Name/Title: David LeFeber, Town Supervisor Address: 23 Genesee Street, Avon, NY 14414 Phone Number: (585)-226-2425 Email: dlefeber@avon-ny.org
NFIP Floodplain Administrator	
Name/Title: Brian Glise, Code Enforcement Officer Address: 23 Genesee Street, Avon, NY 14414 Phone Number: (585) 226-2425 Email: bglise@avon-ny.org	

9.2.2 Municipal Profile

According to the U.S. Census Bureau, the Town has a total land area of 41.2 square miles, of which 41.2 square miles is land, and 0.1 square mile is water. It is bordered on the east by the Towns of Caledonia, on the north by the Town of Rush, on the west by the Town of Lima, and on the south by the Town of Genesee and Livonia. The Town of Avon is located in the northern area of Livingston County and is only 20 miles from downtown Rochester.

According to the U.S. Census, the 2020 population for the Town of Avon was 3,540, a 6.1 percent decrease from the 2010 Census. Data from the 2019 U.S. Census American Community Survey indicate that 5.2 percent of the population is 5 years of age or younger and 21 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.





9.2.3 Jurisdictional Capability Assessment and Integration

The Town of Avon performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of planning, legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration and how risk reduction is supported. Areas with current mitigation integration are summarized in this jurisdictional Capability Assessment (Section 9.2.3). The Town of Avon’s identified opportunities for integration of mitigation concepts to be incorporated into municipal procedures are included in the updated mitigation strategy.

Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Town of Avon. Section 5 (Capability Assessment) provides an overview of the planning, legal and regulatory capabilities. The following table summarizes what is present in the jurisdiction and discusses if the mechanisms have been or could be leveraged to reduce risk.

Table 9.2-2. Planning, Legal, and Regulatory Capability

	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Codes, Ordinances, & Regulations					
Building Code	Yes	Yes	-	State and Local	Code Enforcement
How does this reduce risk? Prevents questions regarding regulations in the municipality					
Zoning/Land Use Code	Yes	No	Chapter 130	Local	Code Enforcement
How does this reduce risk? The zoning ordinance discourages development within floodplains, as depicted on the official zoning map with the Flood Hazard (FH) zoning district.					
Subdivision Ordinance	Yes	No	Chapter 113	Local	Planning & Zoning Board
How does this reduce risk?					
Site Plan Ordinance	Yes	No	Chapter 99-14	Local & County Planning	Planning & Zoning Board
How does this reduce risk?					
Stormwater Management Ordinance	Yes	Yes	99-46	Local	Planning & Zoning Board
How does this reduce risk?					



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Post-Disaster Recovery/ Reconstruction Ordinance	No	No			
<i>How does this reduce risk?</i>					
Real Estate Disclosure	Yes	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How does this reduce risk?</i> In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.					
Growth Management	Yes	No	Comprehensive Plan	Local	Town Board
<i>How does this reduce risk?</i> Prevents unpermitted building					
Environmental Protection Ordinance	Yes	Yes	113-22	State	NYSDEC
<i>How does this reduce risk?</i>					
Flood Damage Prevention Ordinance	Yes	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Chapter 61	Federal, State, County and Local	Code
<i>How does this reduce risk?</i> Attempts to lower the risk of flooding from development.					
Wellhead Protection	No	No	-	-	-
<i>How does this reduce risk?</i>					
Emergency Management Ordinance	Yes	No	61-46	Federal	Code
<i>How does this reduce risk?</i> Prepares for emergencies.					
Climate Change Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Other		-			
Planning Documents					
Master Plan	Yes	No	2016 Comprehensive Plan	Local	Town Board
<i>How does this reduce risk?</i>					
Capital Improvement Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Disaster Debris Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Floodplain Management or Watershed Plan	Yes	No	61-46	Local	Code
<i>How does this reduce risk?</i>					
Stormwater Management Plan	Yes	No	99-46	State	Code
<i>How does this reduce risk?</i> Site Plan Review Prevents flooding.					
Open Space Plan	Yes	Yes	99-64	Local	Code
<i>How does this reduce risk?</i> Prevents homes being too close together.					
Urban Water Management Plan	No	No	-	-	-



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i>					
Habitat Conservation Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Economic Development Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Shoreline Management Plan	No	Yes, in jurisdictions with CEHA areas	Article 34, Environmental Conservation Law, Coastal Erosion Hazard Areas	Yes, in jurisdictions with CEHA areas	
<i>How does this reduce risk?</i>					
Community Wildfire Protection Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Community Forest Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Transportation Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Agriculture Plan	Yes	No	2019	Local	Planning Board
<i>How does this reduce risk?</i>					
Farmland Protection					
Climate Action/Resiliency/Sustainability Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Tourism Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Business/Development Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Other					
Response/Recovery Planning					
Emergency Operations Plan	-	Yes			
<i>How does this reduce risk?</i>					
Strategic Recovery Planning Report	No	No	-	-	-
<i>How does this reduce risk?</i>					
Threat & Hazard Identification & Risk Assessment (THIRA)	No	No	-	-	-
<i>How does this reduce risk?</i>					
Post-Disaster Recovery Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Continuity of Operations Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Public Health Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Other	No	No	-	-	-

Development and Permitting Capability

The table below summarizes the capabilities of the Town of Avon to oversee and track development.

Table 9.2-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment
Do you issue development permits? <ul style="list-style-type: none"> If yes, what department is responsible? If no, what is your process for development? 	Yes	Code Enforcement Officer
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	-
Do you have a buildable land inventory? <ul style="list-style-type: none"> If yes, describe. If no, quantitatively describe the level of buildout in the jurisdiction. 	No	-

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Avon and their current responsibilities which contribute to hazard mitigation.

Table 9.2-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Administrative Capability		
Planning Board	Yes	Town Planning Board
Zoning Board of Adjustments	Yes	Zoning Board of Appeals
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	Town Highway Department
Construction/Building/Code Enforcement Department	Yes	Building and Zoning Department
Emergency Management/Public Safety Department	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Maintain roads, clear debris from storm drains as needed
Mutual aid agreements	No	-
Human Resources Manual	No	-
Other	No	-
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Planning and Zoning Boards



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Engineers or professionals trained in building or infrastructure construction practices	Yes	Planning and Zoning Boards
Planners or engineers with an understanding of natural hazards	Yes	Planning and Zoning Boards
Staff with expertise or training in benefit/cost analysis	Yes	Planning and Zoning Boards
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

The table below summarizes financial resources available to the Town of Avon.

Table 9.2-5. Fiscal Capabilities

Financial Resources	Are these accessible or eligible to use for mitigation? (Yes/No) If yes, please describe. If no, can this be used to support in the future?
Community development Block Grants (CDBG, CDBG-DR)	-
Capital improvements project funding	-
Authority to levy taxes for specific purposes	-
User fees for water, sewer, gas or electric service	-
Impact fees for homebuyers or developers of new development/homes	-
Stormwater utility fee	-
Incur debt through general obligation bonds	-
Incur debt through special tax bonds	-
Incur debt through private activity bonds	-
Withhold public expenditures in hazard-prone areas	-
Other federal or state Funding Programs	-
Open Space Acquisition funding programs	-
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Avon.



Table 9.2-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? If yes, please describe.
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Is hazard mitigation information available on your website?	Yes	The Town maintains a website that contains information on the different departments, upcoming meetings, town updates, and emergency alerts.
Social media for hazard mitigation education and outreach	Yes	The Town has a Facebook page where they provide information on the town and upcoming meetings.
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Other programs already in place that could be used to communicate hazard-related information	Yes	Information can be posted on the website and Facebook page; include information in tax bills and other municipal mailings
Warning Systems / Services (mass notification system, outdoor warning signals)	Yes	Municipal website and Facebook page
Natural disaster/safety programs in place for schools	No	-
Other	No	-

Community Classifications

The table below summarizes classifications for community programs available to the Town of Avon.

Table 9.2-7. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	NP	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	NP	N/A	N/A
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	-	-
NYSDEC Climate Smart Community	NP	N/A	N/A
StormReady Certification	NP	N/A	N/A
Firewise Communities classification	NP	N/A	N/A
Other	NP	N/A	N/A

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current capabilities to adjust to, protect from, or withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each hazard of concern and the jurisdiction’s rating.





Table 9.2-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak*
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Hazardous Materials	Moderate
Invasive Species	Moderate
Landslide	Moderate
Mine Subsidence	Moderate
Pandemic	Moderate
Severe Storm	Strong
Severe Winter Storm	Strong
Terrorism	Moderate
Utility Failure	Moderate
Wildfire	Moderate

**Strong Capacity exists and is in use*

Moderate Capacity may exist; but is not used or could use some improvement

Weak Capacity does not exist or could use substantial improvement

9.2.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP.

Table 9.2-9. NFIP Summary

Town of Avon	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Avon	2	2	\$58,963.91	N/A	N/A	0
NFIP Topic			Comments			
Flood Vulnerability Summary						
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> Do you maintain a list of properties that have been damaged by flooding? 			East Side of Village Town Boundary / Pole Bridge Road			
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)? 			Several interested, a list is not maintained			
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what projects are underway. 			-			
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? 			Assistance from Livingston County Office of Emergency Management			
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> If there are mitigation properties, how were the projects funded? 			-			



Town of Avon	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Avon	2	2	\$58,963.91	N/A	N/A	0
NFIP Topic			Comments			
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If not, state why. 			-			
NFIP Compliance						
What local department is responsible for floodplain management?			Code			
Are any certified floodplain managers on staff in your jurisdiction?			No			
Do you have access to resources to determine possible future flooding conditions from climate change?			No			
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 			No			
Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability)			-			
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?			-			
What are the barriers to running an effective NFIP program in the community, if any?			-			
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state the violations. 			-			
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?			-			
What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended?			-			
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 			-			
Are there other local ordinances, plans or programs (e.g. site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?			-			
Does your jurisdiction participate in CRS? <ul style="list-style-type: none"> If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program? 			-			

Source: NYS DHSES 2021; Livingston County HMP 2014

Notes:

RL Repetitive Loss; SRL Severe Repetitive Loss

9.2.5 Evacuation, Sheltering, Temporary Housing, and Permanent Housing





Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes

The Town uses the major roads, in in and out of the municipality for evacuations if needed.

Sheltering

The Town of Avon has not identified sheltering locations for their residents. In the event sheltering is needed, the Town will work with the County to find suitable locations.

Temporary Housing

The Town of Avon has not identified sites for the placement of temporary housing for residents displaced by a disaster or potential sites suitable for relocating structures out of the floodplain and/or building new homes once properties in the floodplain are acquired. In the event temporary housing is needed, the Town will work with the County to find suitable locations.

Permanent Housing

While the Town of Avon did not identify potential locations for permanent housing, as part of the planning process, a countywide buildable land analysis was conducted and presented in Section 4 (County Profile). The Town can utilize this analysis to identify potential locations.

9.2.6 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.2-10 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. New development has not changed the Town’s vulnerability, nor is the proposed development expected to.

Table 9.2-10. Recent and Expected Future Development

Type of Development	2015		2016		2017		2018		2019		2020		2021	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)														
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	4	0	4	0	2	0	2	0	0	0	26	0	2	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	91	0	85	0	84	0	81	0	88	0	103	0	142	0
Total Permits Issued	95	0	89	0	86	0	83	0	88	0	126	0	144	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development						
Recent Major Development and Infrastructure from 2015 to Present														



Twin Cedars of Avon	Residential	40	35.-1-22.111	None	Upgrading older mobile homes
Solar Field	Commercial	N/A	Pole Bridge Road and East Avon Road	None	Solar panel field
Solar Field	Commercial	N/A	500 Rochester Street	None	Solar panel field
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
Royal Springs Development	Residential	200	45.-1-23.141	None	Would like to start Phase 2
Solar Field	Commercial	N/A	5406 Lake Road	None	Proposed solar panel field
Solar Field	Commercial	N/A	5530 Wolcott Drive	None	Proposed solar panel field

SFHA Special Flood Hazard Area (1% flood event)

*Only location-specific hazard zones or vulnerabilities identified.

9.2.7 Jurisdictional Risk Assessment

The hazard profiles in Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Refer to Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) for a detailed summary for the Town of Avon’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps were generated to illustrate the probable areas impacted within the jurisdiction. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps have been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the Town of Avon has significant exposure. The maps also show the location of potential new development, where available. These maps are illustrated below.



Figure 9.2-1. Town of Avon Flood and Mine Subsidence Hazard Areas

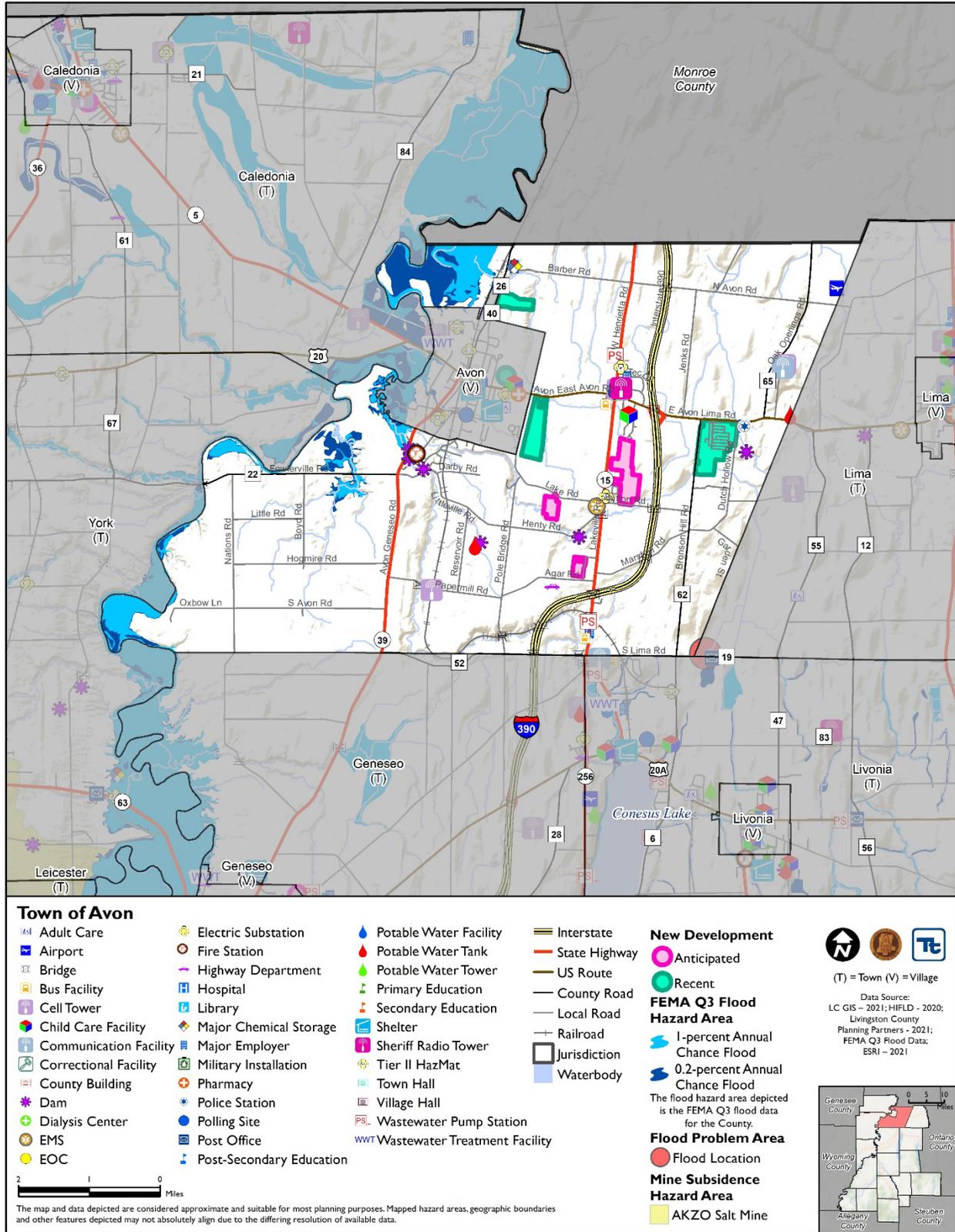




Figure 9.2-2. Town of Avon Hazmat and Wildfire Hazard Areas

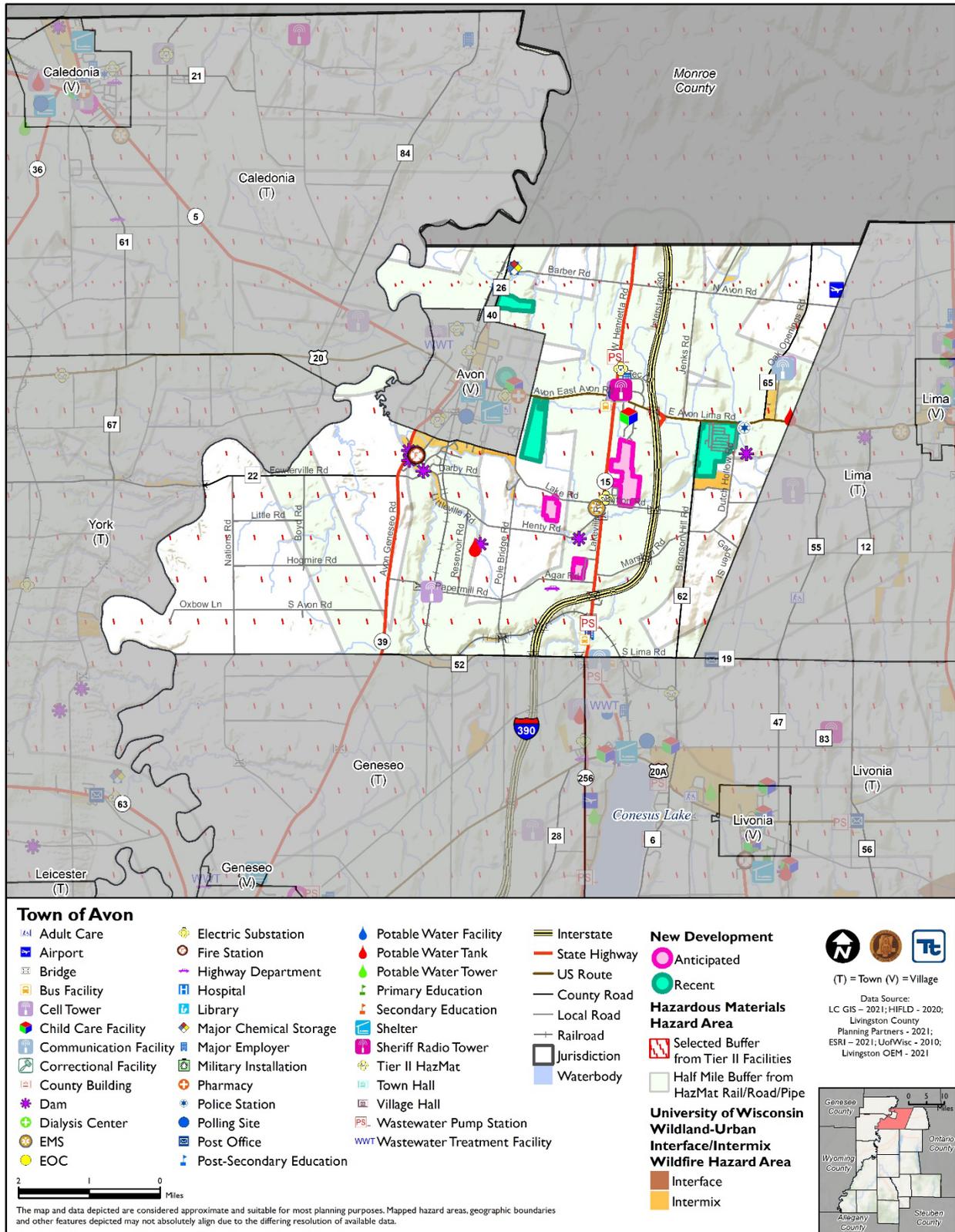
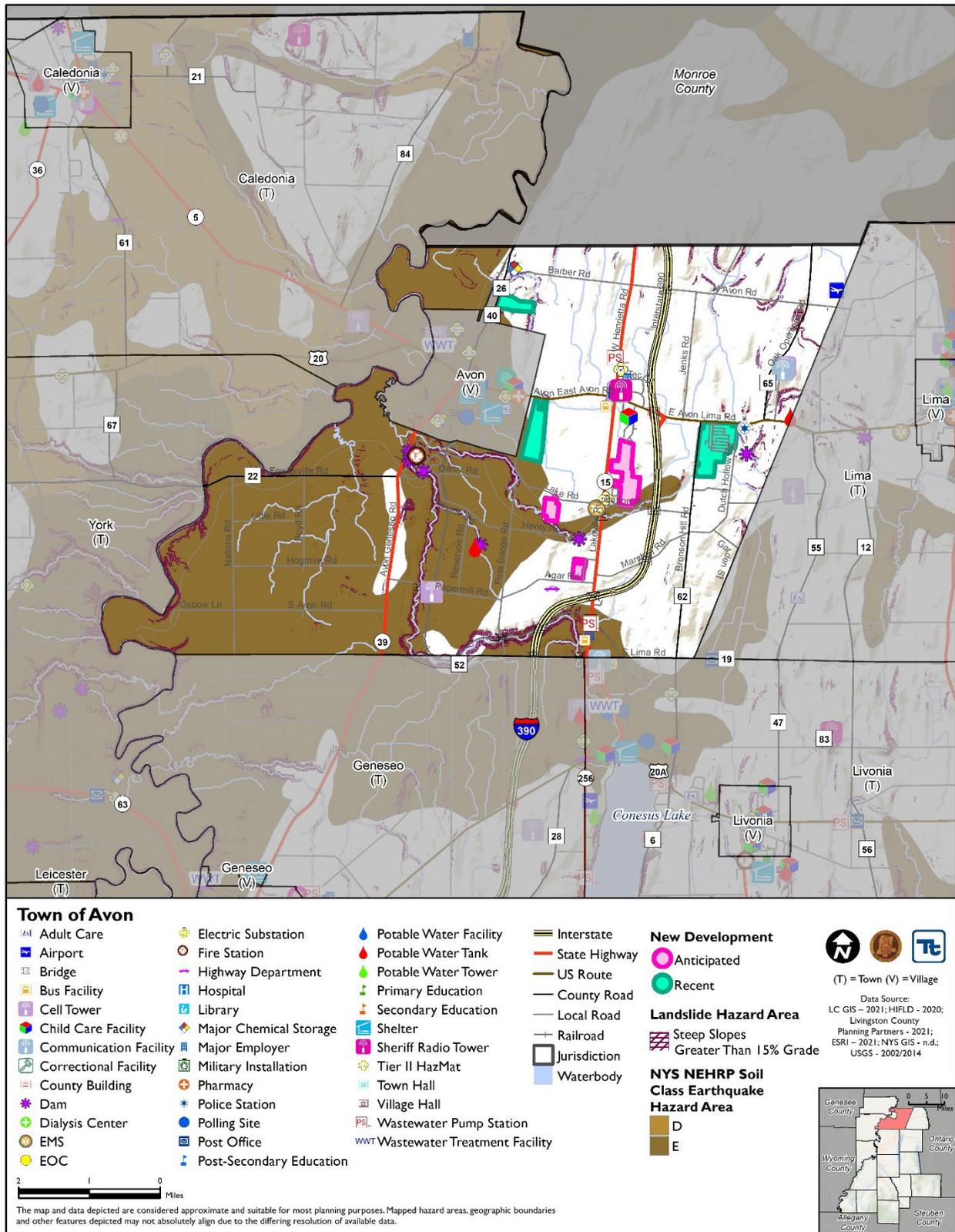




Figure 9.2-3. Town of Avon Earthquake and Landslide Hazard Areas





Hazard Event History

Livingston County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the county and its municipalities.

The Town of Avon’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Livingston County. Table 9.2-11 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.2-11. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Emergency Declaration?	Municipal Summary of Damages and Losses
2020 & 2021	COVID 19 Pandemic	DR 3434 and 4480	Negative social, health, and economic impacts such as population loss, resident infections, resident deaths, mandatory business closures, school closings, decreases in the local labor market, and household supply shortages.
9/9/2015	Thunderstorm Wind	-	Trees Down

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Avon’s risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Livingston County as a whole. Therefore, each Town of Avon ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Avon. The Town of Avon has reviewed the county hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village agreed with the calculated rankings.



Table 9.2-12. Hazard Ranking Input

Drought	Earthquake	Flood	Hazardous Materials	Invasive Species	Landslide	Mine Subsidence
Low	High	Low	High	Medium	Low	Low
Pandemic	Severe Storm	Severe Winter Storm	Wildfire	Terrorism	Utility Failure	
Medium	High	Medium	Low	Low	High	

Note: The scale is based on the hazard rankings established in Section 5.3 and modified as appropriate during review by the jurisdiction

Critical Facilities

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.2-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Complies with NYS Standards	Addressed by Proposed Action
		1% Event	0.2% Event		
No critical facilities located in the floodplain					

Source: Livingston County Planning Partners 2021; HIFLD 2020

Identified Issues

After review of the Town of Avon’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Avon has identified the following vulnerabilities within their community:

- Stormwater flooding
- Lack of backup power at highway garage and town hall

9.2.8 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2015 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.2-14. Status of Previous Mitigation Actions

Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
TA-1	Develop a coordinated watershed inspection program for the entire County. Currently, only Conesus Lake has one. A Countywide program would study all watersheds and municipal water supplies and create a fair, uniform, and systematic set of standards.	All	None provided in the 2015 HMP	County Health Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-2	Secure funds to help with the All-Hazard Mitigation Plan updates and to conduct emergency response drills.	All	None provided in the 2015 HMP	County EMS	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-3	Regularly update County and municipal Emergency Response Plans.	All	None provided in the 2015 HMP	County EMS	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-4	Each municipality should prepare a list of experienced HAM radio operators, mechanics, technicians, cooks, nurses, etc. so that in an emergency these people can take charge of rescue/recovery operations.	All	None provided in the 2015 HMP	Municipality	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-5	Encourage and lobby New York State (NYS) departments and agencies to discount or reduce fees for license registrations for emergency response personnel such as volunteer firefighters, ambulance workers, etc.	All	None provided in the 2015 HMP	County EMS	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-6	Establish pipeline links to Monroe County (especially in the northern part of the County) and City of Rochester water supply systems. This would create redundancy and connection for emergency use.	All	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-7	Develop Countywide strategy to address utility failures during severe weather events	Severe Storms, Winter Storms	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town;



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
							therefore, it will not be included in the Town's annex
TA-8	Enhance the emergency notification system by providing National Oceanic and Atmospheric Administration (NOAA) Weather Radio Receivers to critical facilities.	Severe Storm	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-9	Develop a Countywide strategy to protect vulnerable utilities during severe weather events.	Severe Storms, Winter Storms	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-10	Encourage and support the development of tornado shelters.	Severe Weather	None provided in the 2015 HMP	County EMS	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-11	Regulate building design and construction standards in municipal Flood Prevention Ordinances and/or Zoning Ordinances to reduce the impact of flooding on the built environment.	Flood	None provided in the 2015 HMP	County Planning Department	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-12	Improve drainage capabilities of developed areas. Specifically, study at run-off problems from parking lots, large buildings, and other impermeable surfaces that cause flooding.	Flood	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -
TA-13	Prepare a coordinated sandbagging plan between the County emergency medical services (EMS) and flood-prone communities in the southern half of the County.	Flood	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-14	Institute an annual survey of hazardous materials (HAZMAT) truck traffic on major routes.	Transportation Accidents	None provided in the 2015 HMP	County Highway Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
TA-15	Analyze traffic patterns at major intersections along State and County routes to determine ways to reduce the number of HAZMAT accidents at those intersections.	Transportation Accidents	None provided in the 2015 HMP	County Highway Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-16	Conduct general infrastructure, signage, traffic control, and lighting upgrades to Route 63. These improvements should be aimed specifically at reducing the number of accidents involving HAZMAT trucks.	Transportation Accidents, HAZMAT	None provided in the 2015 HMP	County Highway Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-17	Carry out a pre-event inspection of key buildings, bridges, and dams for seismic vulnerability. Based on this inspection, develop a seismic protection plan for these facilities.	Earthquake	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-18	Inform the public of the earthquake hazard in Livingston County through a public outreach program. This program could take the form of a website, press release, public information session, and/or distribution of information through local newspapers.	Earthquake	None provided in the 2015 HMP	County EMO	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-19	Provide backup power generators for Town Hall.	All	None provided in the 2015 HMP	Town Highway Department	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -
TA-20	Provide backup power generators for public buildings – libraries, community centers, historical societies/museums, etc.	All	None provided in the 2015 HMP	Town Highway Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. Not a concern for the Town at this time
TA-21	Provide backup power generators for highway department/Department of Public Works garages and related installations.	All	None provided in the 2015 HMP	Town Highway Department	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -
TA-22	Set design standards for communication facilities in the Zoning Ordinance or	All	None provided in the 2015 HMP	County Planning Department	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	Telecommunication Ordinance such that they are less prone to disaster.						
TA-23	Set up a Countywide tornado warning system.	Severe Storms, Tornadoes	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-24	Establish mutual aid agreements with neighboring counties for their assistance in addressing Countywide disasters.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-25	Prepare a list of private contractors to assist with recovery efforts in case public services are overwhelmed/disabled. Create a mutual aid agreement with outside contractors to provide recovery services in case local resources are overwhelmed. Set up a call list between County and municipal officials and contractors to facilitate rapid response.	All	None provided in the 2015 HMP	Town Building and Zoning	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -
TA-26	Set up a reverse emergency management call system to contact residents (Reverse 9-1-1).	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. The Town will research the different mass notification systems and select a program that works best for the community. 3. -
TA-27	Develop a standardized door tag that can be left on residents' doors when door-to-door notifications are necessary.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-28	Set up a special promotional campaign that will award a \$100 Wegmans gift card to citizens who prepare detailed family plans for	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town;



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	evacuation and meeting after a disaster event.						therefore, it will not be included in the Town's annex
TA-29	Ensure designated shelters are stocked with supplies and equipment, especially in regards to special-needs populations (elderly, ill, disabled).	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-30	Regulate special provision for backup supplies in the Emergency Management Plan.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-31	Provide security provisions for telephone lines and power lines.	All	None provided in the 2015 HMP	County Sheriff	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-32	Secure funding to alleviate staffing issues for fire departments and emergency medical technicians.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-33	Set up a "Welcome Wagon" program (based on former Conesus Lake program) to distribute information about disasters for new residents.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-34	Involve community groups and local nonprofit organizations (Boy/Girl Scouts, etc.) with information distribution programs.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-35	Develop public education programs that follow the "education without panicking" concept.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town;



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
							therefore, it will not be included in the Town's annex
TA-36	Develop and disseminate routine public mailings and booklets to every home. Mailings should contain maps and information on shelters and disaster response.	All	None provided in the 2015 HMP	County EMS	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-37	Replace and upgrade North Littleville Road culvert to appropriate stormwater and flooding capacity.	Flood	None provided in the 2015 HMP	Town Highway Department	Complete	1. 2. 3.	1. Discontinue 2. - 3. Project Complete
TA-38	Develop and implement a stormwater management program for all roads, stream bank, and stream channel clearing.	Flood, Severe Storm	None provided in the 2015 HMP	Town Building Department	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -
TA-39	Develop materials and conduct education and outreach to work with farmers to implement best management practices (BMP) to address stormwater runoff from fields.	Flood, Severe Storm	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -
TA-40	Conduct a hydrilla management analysis to determine whether chemical treatments or the introduction of grass carp would be a more effective control measure.	Invasive Species	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-41	Implement hydrilla control measures to prevent the further spread of the invasive species and to eventually reduce its impact on the County's water systems.	Invasive Species	None provided in the 2015 HMP	County Planning Department	No Progress	1. 2. 3.	1. Discontinue 2. - 3. This is a county action and not applicable to just the Town; therefore, it will not be included in the Town's annex
TA-42	Assess and prioritize feasible non-structural flood hazard mitigation alternatives for at-risk properties within the floodplain (including those that have been identified as repetitive loss) such as acquisition/relocation, or elevation. The parameters for feasibility for this initiative would include the following: funding,	Flood, Severe Storm, Wildfire, Winter Storm	None provided in the 2015 HMP	Town Engineering Department	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	benefits versus costs, and willing participation of property owners. Implement as funding becomes available.						
TA-43	Develop and implement an enhanced all-hazards, public outreach / education / mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance.	All Hazards	None provided in the 2015 HMP	Town Supervisor's Office	No Progress	1. 2. 3.	1. Include in the 2022 HMP 2. - 3. -
TA-44	Maintain compliance with and good standing in the National Flood Insurance Program (NFIP) including adoption and enforcement of floodplain management requirements (e.g., regulating all new and substantially improved construction in special-hazard flood areas), floodplain identification and mapping, and flood insurance outreach to the community. Further meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified in subsequent initiatives	Flood	None provided in the 2015 HMP	NFIP FPA	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-45	Support and participate in County-led initiatives intended to build local and regional mitigation and risk-reduction capabilities (Section 9.1), specifically to ensure alignment of mitigation initiatives through all levels of government (effort to build state and federal-level recognition and support of the County and local hazard mitigation planning strategies identified in this plan).	All Hazards	None provided in the 2015 HMP	County Departments	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-46	Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the County. Join the CRS program if	Flood	None provided in the 2015 HMP	NFIP FPA	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town



Project #	Project	Hazard(s) Addressed	Brief Summary of the Original Problem	Responsible Party	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success 1. Cost 2. Level of Protection 3. Damages Avoided; Evidence of Success	Next Steps 1. Project to be included in 2022 HMP or Discontinue 2. If including action in the 2022 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	adequate resources to support long-term participation can be dedicated. See following related Community Assistance Visit (CAV) initiative.						
TA-47	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. This is a part of the process of joining CRS (above initiative).	Flood	None provided in the 2015 HMP	NFIP FPA	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-48	Designate a NFIP Floodplain Administrator (FPA), and other local officials who would benefit, become a Certified Floodplain Manager (CFM) through the Association of State Floodplain Managers (ASFPM) and NYS Stormwater and Floodplain Managers Association (NYSSFMA), and pursue relevant continuing education training such as Federal Emergency Management Agency (FEMA) Benefit-Cost Analysis (BCA) and Substantial Damage Estimation (SDE).	Flood	None provided in the 2015 HMP	NFIP FPA	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-49	Develop and maintain mapping of all natural hazard risk areas in the Town, FEMA-delineated or otherwise, to support land use decision making (e.g., Planning Board, site plan review process).	Flood, Wildfire	None provided in the 2015 HMP	Engineering Department	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-50	Work with County and power companies to identify roads within the Town considered “critical” would be the first priority for clearing after an event involving downed power lines.	Severe Storm; Severe Winter Storm	None provided in the 2015 HMP	Engineering Department	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town
TA-51	Enhance or expand tree maintenance program and coordinate with utility companies.	Severe Storm; Severe Winter Storm	None provided in the 2015 HMP	Engineering Department	Ongoing Capability	1. 2. 3.	1. Discontinue 2. - 3. This is an ongoing capability for the Town



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

Other than what is presented in Table 9.2-14, the Town of Avon did not complete any additional mitigation projects/activities since the 2015 HMP.

Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Avon participated in a mitigation action workshop in September 2021 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories.

Table 9.2-15. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Drought	X	X					X		X	X
Earthquake	X	X					X		X	X
Flood	X	X			X	X	X		X	X
Hazardous Materials	X	X					X		X	X
Invasive Species	X	X					X		X	X
Landslide	X	X					X		X	X
Mine Subsidence	X	X					X		X	X
Pandemic	X	X					X		X	X
Severe Storm	X	X			X	X	X		X	X
Severe Winter Storm	X	X			X	X	X		X	X
Wildfire	X	X					X		X	X
Terrorism	X	X					X		X	X
Utility Failure	X	X					X		X	X

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

Table 9.2-16 summarizes the comprehensive range of specific mitigation initiatives the Town of Avon would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.



Table 9.2-16. Proposed Hazard Mitigation Initiatives

Project Number	Mitigation Initiative Name	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Hazard(s) to be Mitigated	Goals Met	Estimated Timeline	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Priority	Mitigation Category	CFS Category
2022-Town of Avon-001	Pole Ridge Road Drainage	<p>Problem: During periods of heavy rain, parts of Pole Bridge Road in the town become inundated and impacts properties along the road. The Town has to close portions of the road which prohibits emergency vehicle access from getting through.</p> <p>Solution: The Town will construct a retention pond that will catch and store water runoff along the road to help limit flooding and help remove pollutants from the surrounding environment.</p>	No	Yes	Flood, Severe Storm, Severe Winter Storm	1, 2	Within 3 years	Town Highway with support from County Engineering	Water Quality Improvement Project (WQIP) Program, Community Development Block Grant, Town Budget	Captures water runoff and reduces flooding in the area	\$10,000+	High	SIP	PP, ES
2022-Town of Avon-002	Backup Power for Town Hall	<p>Problem: Town Hall, located at 23 Genesee Street, does not have a source of backup power. The building provides essential services to the municipality. Without power, it cannot properly function.</p> <p>Solution: Purchase and install a permanent generator and proper utility switches at town hall. This will provide continuity of operations and allow the facility to remain open during emergencies. The facility can then serve as a heating/cooling/charging center for residents without power.</p>	Yes	No	All	1, 2	Within 3 years	Town Board	FEMA HMGP, Town Budget	Continuity of operations; provide essential services to the community	\$20,000+	High	SIP	SP, ES
2022-Town of Avon-003	Backup Power for Highway Department	<p>Problem: The Town's highway department building, located at 5390 Agar Road, does not have backup power. In the event of a power</p>	Yes	No	All	1, 2	Within 3 years	Town Highway Department	FEMA HMGP	Continuity of operations; provide essential	\$45,000	High	SIP	SP, ES





Project Number	Mitigation Initiative Name	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Hazard(s) to be Mitigated	Goals Met	Estimated Timeline	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Priority	Mitigation Category	CRS Category
		<p>outage, the facility cannot operate properly and cannot provide essential services to the community.</p> <p>Solution: Purchase and install a permanent generator and proper utility switches at the highway department building. This will provide continuity of operations and allow the facility to remain open during emergencies.</p>								services to the community				
2022-Town of Avon-004	Recovery Efforts Contractors	<p>Problem: The Town does not have a list of contractors that can assist with recovery efforts after an emergency.</p> <p>Solution: Prepare a list of private contractors to assist with recovery efforts in case public services are overwhelmed/disabled. Create a mutual aid agreement with outside contractors to provide recovery services in case local resources are overwhelmed. Set up a call list between County and municipal officials and contractors to facilitate rapid response.</p>	No	No	All	1, 2, 3	Within 1 year	Town Board	Town Budget	Identifies help before an incident; increases capabilities; helps with disaster response	Staff Time	Medium	LPR	ES
2022-Town of Avon-005	Emergency Notification System	<p>Problem: The Town does not have a mass notification system to relay emergency alerts to its residents.</p> <p>Solution: The Town will research the different mass notification systems and select a program that works best for the community.</p>	No	No	All	1, 2, 3	Within 1 year	Town Emergency Management, Town Board	Town Budget	Notification system for residents; increases awareness	\$15,000+	High	LPR	PI, ES



Project Number	Mitigation Initiative Name	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Hazard(s) to be Mitigated	Goals Met	Estimated Timeline	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Priority	Mitigation Category	CRS Category
2022-Town of Avon-006	Stormwater Management Program	Problem: The Town lacks a stormwater management program and experiences the impacts of stormwater flooding during periods of heavy rain. Solution: Develop and implement a stormwater management program for all roads, stream bank, and stream channel clearing in the Town.	No	No	Flood, Severe Storm, Severe Winter Storm	1, 2, 3	Within 2 years	Town Highway Department, Town Planning and Zoning Boards	Town Budget	Controls excess water runoff; increases water quality; provides guidance to controlling stormwater	\$30,000+	High	LPR	PR, ES
2022-Town of Avon-007	Expand Education and Outreach Program	Problem: The current outreach program run by the town does not have information regarding best management practices to address stormwater runoff from farmland. Solution: Develop materials and conduct education and outreach to work with farmers to implement best management practices (BMP) to address stormwater runoff from fields.	No	No	Flood, Severe Storm, Severe Winter Storm	1, 2, 3	Within 3 years	County Planning Department, County Office of Emergency Management, Municipality	Town Budget, FEMA HMGP	High	\$20,000	High	LPR	PI
2022-Town of Avon-008	Update Flood Damage Prevention Ordinance	Problem: The town lacks an updated flood damage prevention ordinance. Solution: The town will adopt an updated flood damage prevention ordinance to meet state and federal NFIP standards.	No	No	Flood	1, 2	Within 6 months	NFIP Floodplain Administrator, Town Board	Town Budget	Meeting state and federal standards	Staff time	High	LPR	PR
2022-Town of Avon-009	NFIP Administrator Training	Problem: The floodplain administrator for the town is in need of training and resources to understand the NFIP program and flooding in the village.	No	No	Flood	1, 2, 3	Within 1 year	NFIP Floodplain Administrator, NYSDEC	Town Budget	Increase education and training on floods in the town	Staff time	High	LPR	PR





Project Number	Mitigation Initiative Name	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Hazard(s) to be Mitigated	Goals Met	Estimated Timeline	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Priority	Mitigation Category	CRS Category
		<p>Solution: The floodplain administrator will review the list of upcoming trainings on the NYSDEC website and sign up to attend. This will allow the administrator to understand their role in administering the program and learning about the NFIP.</p>												

Notes:

Not all acronyms and abbreviations defined below are included in the table.

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:





- *Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.*
- *Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.*
- *Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities*



Table 9.2-17. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2022-Town of Avon-001	Pole Ridge Road Drainage	1	1	1	1	1	0	0	1	0	1	1	1	1	0	10	High
2022-Town of Avon-002	Backup Power for Town Hall	1	1	1	1	1	0	0	0	0	1	1	1	1	0	9	High
2022-Town of Avon-003	Backup Power for Highway Department	1	1	1	1	1	0	0	0	0	1	1	1	1	0	9	High
2022-Town of Avon-004	Recovery Efforts Contractors	1	1	1	1	1	0	1	0	0	0	1	1	0	0	8	Medium
2022-Town of Avon-005	Emergency Notification System	1	1	1	1	1	1	1	0	1	1	1	1	1	0	12	High
2022-Town of Avon-006	Stormwater Management Program	1	1	1	1	1	1	1	1	0	1	1	1	1	0	12	High
2022-Town of Avon-007	Expand Education and Outreach Program	1	1	1	1	1	1	0	1	0	1	1	1	0	0	10	High
2022-Town of Avon-008	Update Flood Damage Prevention Ordinance	1	1	1	1	1	0	1	0	0	1	0	1	0	1	9	High
2022-Town of Avon-009	NFIP Administrator Training	1	1	1	1	1	0	1	0	0	1	0	1	0	1	9	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



9.2.9 Action Worksheets

The following action worksheets have been developed by the Town of Avon to aid in the submittal of grant applications to support the funding of high priority proposed actions.

Action Worksheet			
Project Name:	Pole Ridge Road Drainage		
Project Number:	2022-Town of Avon-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm, Severe Winter Storm		
Description of the Problem:	During periods of heavy rain, parts of Pole Bridge Road in the town become inundated and impacts properties along the road. The Town has to close portions of the road which prohibits emergency vehicle access from getting through.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will construct a retention pond that will catch and store water runoff along the road to help limit flooding and help remove pollutants from the surrounding environment.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	20-year	Estimated Benefits (losses avoided):	High
Useful Life:	15 years	Goals Met:	1, 2
Estimated Cost:	\$10,000+	Mitigation Action Type:	SIP
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 6 months of funding award
Estimated Time Required for Project Implementation:	Within 3 years	Potential Funding Sources:	Water Quality Improvement Project (WQIP) Program, Community Development Block Grant, Town Budget
Responsible Organization:	Town Highway with support from County Engineering	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Capital Improvement
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Acquire all properties in area	\$1 million+	Costly; not necessary; loss tax base
	Drainage work	\$100,000+	Selected project
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Pole Ridge Road Drainage	
Project Number:	2022-Town of Avon-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect residents in the floodprone areas
Property Protection	1	Reduce or eliminate flood damage to buildings in this area
Cost-Effectiveness	1	Benefits outweigh the costs
Technical	1	
Political	1	
Legal	0	
Fiscal	0	Need funding to complete project
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm, Severe Winter Storm
Timeline	1	To be completed within 3 years
Agency Champion	1	
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Backup Power for Town Hall		
Project Number:	2022-Town of Avon-002		
Risk / Vulnerability			
Hazard(s) of Concern:	All		
Description of the Problem:	Town Hall, located at 23 Genesee Street, does not have a source of backup power. The building provides essential services to the municipality. Without power, it cannot properly function.		
Action or Project Intended for Implementation			
Description of the Solution:	Purchase and install a permanent generator and proper utility switches at town hall. This will provide continuity of operations and allow the facility to remain open during emergencies. The facility can then serve as a heating/cooling/charging center for residents without power.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Continuity of operations; provide essential services to the community
Useful Life:	25 years	Goals Met:	1, 2
Estimated Cost:	\$20,000+	Mitigation Action Type:	SIP
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 6 months of funding award
Estimated Time Required for Project Implementation:	Within 3 years	Potential Funding Sources:	Town Budget, FEMA HMGP
Responsible Organization:	Town Board	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$10,000+	Weather dependent, may not be best solution for long-term outages
	Install generator	\$20,000+	Selected project
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Backup Power for Town Hall	
Project Number:	2022-Town of Avon-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	Benefits outweigh the costs
Technical	1	
Political	1	There is political support for this projects
Legal	0	
Fiscal	0	Need funding to purchase and install generator
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	To be completed within 3 years
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Backup Power for Highway Department		
Project Number:	2022-Town of Avon-003		
Risk / Vulnerability			
Hazard(s) of Concern:	All		
Description of the Problem:	The Town's highway department building, located at 5390 Agar Road, does not have backup power. In the event of a power outage, the facility cannot operate properly and cannot provide essential services to the community.		
Action or Project Intended for Implementation			
Description of the Solution:	Purchase and install a permanent generator and proper utility switches at the highway department building. This will provide continuity of operations and allow the facility to remain open during emergencies.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Continuity of operations; provide essential services to the community
Useful Life:	25 years	Goals Met:	1, 2
Estimated Cost:	\$45,000	Mitigation Action Type:	SIP
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 6 months of funding award
Estimated Time Required for Project Implementation:	Within 3 years	Potential Funding Sources:	Town Budget, FEMA HMGP
Responsible Organization:	Town Highway Department	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$10,000+	Weather dependent, may not be best solution for long-term outages
	Install generator	\$45,000	Selected project
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Backup Power for Highway Department	
Project Number:	2022-Town of Avon-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	Benefits outweigh the costs
Technical	1	
Political	1	There is political support for this projects
Legal	0	
Fiscal	0	Need funding to purchase and install generator
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	To be completed within 3 years
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Stormwater Management Program		
Project Number:	2022-Town of Avon-006		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm, Severe Winter Storm		
Description of the Problem:	The Town lacks a stormwater management program and experiences the impacts of stormwater flooding during periods of heavy rain.		
Action or Project Intended for Implementation			
Description of the Solution:	Develop and implement a stormwater management program for all roads, stream bank, and stream channel clearing in the Town.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	20-year	Estimated Benefits (losses avoided):	Controls excess water runoff; increases water quality; provides guidance to controlling stormwater
Useful Life:	15 years	Goals Met:	1, 2
Estimated Cost:	\$30,000+	Mitigation Action Type:	LPR
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 6 months of funding received
Estimated Time Required for Project Implementation:	Within 2 years	Potential Funding Sources:	Town Budget
Responsible Organization:	Town Highway Department, Town Planning and Zoning Boards	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Elevate roadways to reduce flood damage	\$1 million+	Not feasible; costly
	Implement project	\$30,000+	Selected project
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Stormwater Management Program	
Project Number:	2022-Town of Avon-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect residents in the floodprone areas
Property Protection	1	Reduce or eliminate flood damage to buildings in this area
Cost-Effectiveness	1	Benefits outweigh the costs
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Town budget
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm, Severe Winter Storm
Timeline	1	To be completed within 2 years
Agency Champion	1	
Other Community Objectives	0	
Total	12	
Priority (High/Med/Low)	High	