

### 3.0 MITIGATION STRATEGIES

As Seneca County’s mitigation planning team developed mitigation goals and strategies, their intention was to address the identified risks and vulnerabilities for the county and each jurisdiction. This process resulted in strategies that are individualized to jurisdictions. While there are between jurisdictions, each community included actions designed to address local risks and vulnerabilities.

#### 3.1 STATUS OF PAST MITIGATION EFFORTS

The 2014 Seneca County Multi-Jurisdictional Natural Hazard Mitigation Plan identified mitigation goals, objectives, and strategies by jurisdiction. As part of the planning process, the mitigation planning team reviewed the 2014 strategies for each jurisdiction. The list below updates the status of each strategy and if the strategy was completed, was deleted, or will continue in the strategies identified in this section.

**Table 3-1: Status of Past Mitigation Strategies**

Strategy	Status	Explanation
<b>SENECA COUNTY</b>		
1.1.1 Seneca County will support disaster mitigation efforts through buy-out and relocation programs for properties that are repetitive or severe repetitive loss properties	Continued	
1.1.2 Seneca County will adopt and maintain floodplain management standards that support NFIP and require flood prone landowners to carry flood insurance	Continued	
1.1.3 Seneca County will support zoning and building codes that prevent construction in flood zones, and that support construction practices that mitigate damage due to floods for structures built in vulnerable areas	Continued	
1.1.4 Seneca County will work to identify funding and apply for funding to support removal of blighted structures from flood prone areas	Continued	
1.2.1 Seneca County will provide information to contractors and builders regarding flood risk and floodplain properties	Continued	
1.2.2 Seneca County will investigate land use planning standards that prevent the construction or renovation of structures in flood prone areas, and that designate construction standards for disaster resistant buildings when built or renovated in flood vulnerable areas	Continued	
1.2.3 Seneca County will study the concept of residential and commercial building codes whereby implementation may reduce flood loss by improving the quality of construction and decreasing the number of buildings constructed in flood prone areas	Completed	

Strategy	Status	Explanation
1.2.4 Seneca County will implement residential building codes to protect landowners from construction of buildings that fail to meet reasonable construction standards that include disaster-resistant building techniques and use of building materials that resist damage during disasters common to Seneca County	Deleted	Not supported by stakeholders
2.1.1 Seneca County will work with utility companies to advocate for buried and otherwise hardened utility service delivery	Continued	Ongoing activity
2.1.2 Seneca County will advocate for full availability of all utilities to all parts of the county, and for enhancement of utility service to all areas	Completed	
2.1.3 Seneca County will work with utility companies to discover and identify funding that supports the hardening of utility services	Deleted	Not supported by a majority of officials
2.1.4 Seneca County will work to obtain fiber-optic communication lines from all telephone service providers in the county	Deleted	County has no control over this.
2.2.1 Seneca County will work to identify and make available financial assistance programs or resources for homeowners and renters to obtain generators and sump pumps to decrease property damage during severe storms and power outages	Completed	Infrequently needed; retail services have made this available
2.2.2 Seneca County will work to develop a list of sources of generators and sump pumps to be used to assist residents and businesses during a disaster, preventing escalating prices and outlandish charges for these items during a time of need	Deleted	Not needed
3.1.1 The Seneca County Engineer will work with the Ohio Department of Transportation to complete elevation and other engineered improvements on sections of state highway in Seneca County to prevent roadway flooding	Deleted	County has no control over this work
3.1.2 The Seneca County Engineer will complete elevations and other engineered improvements to county and township roadways that suffer repeated severe flooding during periods of heavy rain and runoff	Continued	Elevations not completed due to lack of funding
3.2.1 Seneca County Engineer will assess the condition of bridges and culverts in Seneca County, and will determine which ones need reinforcement and/or repair to remain functional and safe during floods and flash floods.	Continued	Ongoing need
3.2.2 The Seneca County Engineer will conduct an infrastructure improvement project to repair/reinforce these structures, using mitigation funding identified for this purpose.	Deleted	Did not utilize mitigation funding; used other sources of funding to complete
4.1.1 Seneca County will identify residential areas where large numbers of homes exist that do not have basements or existing safe rooms for residents to use as shelter during tornadoes and severe wind incidents	Continued	Ongoing need

Strategy	Status	Explanation
4.1.2 Seneca County will identify grant funding and other sources of funding to pay for the construction of safe rooms to house populations at risk due to lack of basements and/or existing safe rooms.	Continued	Ongoing program
4.1.3 Seneca County will utilize identified funding to construct safe rooms in areas where significant numbers of residents and others are at risk during tornadoes and severe windstorms due to a lack of basements and /or existing safe rooms	Deleted	Projects should be completed by individual landowners; no county role
4.1.4 Seneca County will continue to evaluate the need for and the use of safe rooms constructed under this project, and will determine the need for changes to the program based upon cost and benefit of the construction.	Deleted	Program has developed and is between OEMA and private landowners
4.2.1 Seneca County will identify the shelters in the county that are available and equipped to serve as a 24-hour shelter, including for sleeping overnight, for evacuees and others displaced due to disaster	Continued	Need has increased; still necessary
4.2.2 Seneca County will identify community gathering rooms that can be used for gathering of community members during disasters for the purpose of information exchange, socialization, and comfort for periods of less than 24 hours without sleeping purposes	Deleted	Merged into shelter strategy
4.2.3 Seneca County will develop signage and post it, either through shelter operators, other jurisdictions, or the EMA, to identify shelters and community gathering rooms so residents and visitors can easily identify the shelters or safe rooms	Deleted	Not necessary
4.2.4 Seneca County will develop a listing of safe rooms, shelters, and other areas that are pre-identified for occupancy during severe wind storms and tornadoes	Deleted	Alternate system developed through ARC
4.2.5 Seneca County will identify funding to purchase generators for as many shelters and community gathering rooms as possible, with shelters a priority, and will then purchase and install those generators at the sites	Continued	Some purchased by jurisdictions; some still needed
5.1 Seneca County will maintain its 9-1-1 system of communication.	Deleted	Operational responsibility of county
5.2 Seneca County will maintain its Emergency Operations Center.	Deleted	Ongoing responsibility of county
5.3.1 Seneca County will continue to advocate for and provide information to enhance family and individual preparedness in the county	Completed	
5.3.2 Seneca County will work to educate the public on evacuation and shelter-in-place procedures, and will provide opportunities for the public to practice what to do when an order is issued.	Continued	Ongoing need

Strategy	Status	Explanation
5.3.3 Seneca County will maintain its website (EMA) to disseminate information to the public in times of disaster and on normal days	Completed	Ongoing county responsibility
5.4 Seneca County will maintain its response resources such as EMS, fire departments, and police departments, and will support them with education and training to respond effectively and efficiently.	Completed	Ongoing responsibility of the county
5.5 Seneca County will maintain its communication system with emergency responders to continue to be able to respond effectively and efficiently.	Completed	Ongoing responsibility of the county
5.6.1 Seneca County will continue to advocate and support use of NOAA weather radios in homes, businesses, and institutions through a public education program of disaster warnings and notification and protective action.	Deleted	Alternate opt-in notification system selected and implemented
5.6.2 Seneca County will work to identify funding for and to construct/install additional outdoor warning sirens to warn residents of impending dangers.	Continued	Need still exists
5.6.3 Seneca County will place additional outdoor warning sirens in locations that lack adequate coverage by sirens, including but not limited to Flat Rock, Kromers, Tiffin, and Fostoria	Continued	Need still exists; not done
6.1.1 Seneca County will support ASCS, Farm Bureau, OSU Extension Service, and SWCD and other efforts to work with landowners in cleaning ditches by supporting grant applications and other means of obtaining funds to support this project	Continued	County ditch maintenance program
6.2.1 Seneca County will maintain storm sewers by establishing a plan of maintenance and replacement.	Continued	Continued in new plan with more detail
6.2.2 Seneca County will plan and construct retention ponds and wetlands where floodwaters repeatedly collect with the purpose of reducing flooding at the same time an ecologically friendly environment is created	Continued	Need still exists
6.2.3 Seneca County will investigate and plan for water diversion programs where such a program can diminish flooding and decrease damages to structures and property.	Deleted	Other strategies determined to be better
6.2.1 Seneca County will support ditch cleaning as a part of maintaining county owned property.	Continued	Ongoing need
7.1.1: Seneca County will release information encouraging landowners to trim trees on their property so they do not come down during storms	Continued	Ongoing need
7.1 2: Seneca County will sponsor educational efforts to help teach landowners how to care for trees and shrubs on their property so that damages are minimized in wind storms	Deleted	Completed by OSU Extension service and commercial providers

Strategy	Status	Explanation
7.1.3 Seneca County will search for funds to assist landowners in covering the cost of tree maintenance, and will assist them in obtaining funding when feasible, and will incorporate information about what should be planted on ditch banks and wastelands to facilitate proper runoff of storm waters	Deleted	Not needed; provided by another agency
7.1.4 Seneca County will advocate for and encourage landowners to properly maintain the rights-of-way on their properties and will properly maintain rights-of-way on public property to facilitate the proper runoff of storms waters	Deleted	Not needed; provided by another agency
7.2.1 Seneca County will trim trees and shrubs on county-owned property	Completed	
7.2.2 Seneca County will encourage other public property owners, including business and industry, organizations, and other jurisdictions to trim trees and shrubs on their property	Completed	
7.2.3 Seneca County will search for funds to assist in the maintenance of public property for the purpose of maintaining trees and shrubs as a mitigation effort, and will assist in obtaining and administering the funds whenever feasible	Deleted	Absorbed by operating budgets
7.2.4 Seneca County will increase the public awareness of the Ottawa-Sandusky-Seneca Solid Waste District plan, services, and programs for the purposes of solid waste disposal before, during, and after storms as it applies to property maintenance.	Continued	Ongoing operations of OSS Solid Waste District staff
7.3.1 Seneca County will work with volunteer groups to remove debris and loose limbs from trees and shrubs in public areas not maintained by regular crews	Completed	CERT established and operating.
7.3.2 Seneca County will support safety training for tree and limb removal volunteers to create a safe, effective volunteer workforce	Completed	CERT training program established.
8.1 Seneca County will work to identify needs, gap areas, and resources available to respond to emergencies and disasters.	Completed	
8.2 Seneca County will work to identify sources of funding to support the necessary disaster and emergency services in Seneca County to the extent that they reasonably fulfill the need for response to anticipated threats.	Completed	EMA Operational Budget
9.1 Seneca County will work with utility companies to advocate for cost assistance programs for families and individuals in need during extreme heat and cold snaps	Deleted	Completed by another agency
9.2.1 Seneca County will develop volunteers who can assist with community gathering places that are used on a temporary basis during times of disaster	Completed	CERT established and operating
9.2.2 Seneca County will work with cities, villages, and unincorporated towns and townships to develop and identify community gathering places for neighborhood gathering during disaster	Continued	Ongoing need

Strategy	Status	Explanation
9.2.3 Seneca County will work with American Red Cross and other sheltering providers to assure and harden the availability of 24-hour shelters for housing during evacuations and other more long-term disasters.	Continued	Modified to fit new ARC guidelines
9.2.4 Seneca County will work with the hospitals, public health, and other healthcare providers to ensure the availability of functional needs shelters and resources to be used during evacuations and shelter-in-place incidents.	Continued	Ongoing need
9.3.1 Seneca County will support transportation services to help with evacuation of individuals and families who do not have a vehicle to the nearest available shelter.	Completed	County agency will assume duty
9.3.2 Seneca County will work with schools and other providers with the capacity to transport special needs and disabled individuals to shelters, community gathering places, and hospitals or alternate health care centers during disaster.	Completed	EOP includes provisions
9.3.3 Seneca County will work to develop an enhanced volunteer workforce to assist families and individuals during times of disaster with activities such as evacuation, mass care, and family assistance	Completed	CERT established
<b>ATTICA</b>		
1.1.1 The Village of Attica will work with these facilities to find generators and sump pumps when needed so they can provide the highest amount of comfort for residents as possible during disasters	Completed	Sump pumps deleted
1.1.2 The Village of Attica will identify and train a group of volunteers or workers to manage the community gathering place as needed and when offered or occupied by residents	deleted	County developed CERT
1.1.3 The Village of Attica will work with the Seneca County EMA to establish the operating procedures for the community gathering places, and to determine how and when they will be activated	Not Completed	
2.1.1 The Village of Attica will place information in letters and other pieces of written information sent to residents about right-of-way responsibilities of landowners	Deleted	
2.1.2 The Village of Attica will use the media to convey information to residents and landowners about right of way responsibilities and maintenance	Deleted	
2.2.1 The Village of Attica will provide written information to property owners about the proper way to trim trees and shrubs to be disaster resistant	Deleted	
2.2.2 The Village of Attica will work with landowners to facilitate cleaning of ditches to remove debris and vegetation that impedes the flow of runoff water	Deleted	
2.3.1 The Village of Attica will provide information to property owners about the best species of trees and shrubs to plant to be disaster resistant	Deleted	
3.1.1 The Village of Attica will encourage utility companies to bury existing overhead utility supply lines to make them resistant to disaster	Completed	

Strategy	Status	Explanation
3.1.2 The Village of Attica will consider zoning rules and requirements that mandate utility lines to be underground for new construction and new subdivisions.	Deleted	
<b>BETTSVILLE</b>		
1.1.1 The Village of Bettsville will utilize mitigation program funding to acquire, demolish, and relocate three residences that flood repeatedly via Wolfe Creek	Continued	No landowners took advantage of program
1.1.2 The Village of Bettsville will acquire, demolish, and relocate three homes and families that occupy them and suffer repeated flooding of Wolfe Creek.	Continued	No landowners took advantage of program
2.1.1 The Village of Bettsville will use engineering assistance to develop a diversion plan for Wolfe Creek in the village to avoid riverine flooding as the creek flows through town during and after heavy rainfall	Continued	Ongoing effort
2.1.2 The Village of Bettsville will identify means to finance a creek diversion program to mitigate flooding in the village through Wolfe Creek	Continued	
2.1.3 The Village of Bettsville will engage in conducting a project to divert Wolfe Creek away from residences as it flows through the village	Continued	
3.1.1 The Village of Bettsville will encourage utility companies to bury existing overhead utility supply lines to make them resistant to disaster	Continued	
3.1.2 The Village of Bettsville will consider zoning rules and requirements that mandate utility lines to be underground for new construction and new subdivisions	Deleted	Insufficient stakeholder support
4.1.1 The Village of Bettsville will place information in letters and other pieces of written information sent to residents about right-of-way responsibilities of landowners	Deleted	
4.1.2 The Village of Bettsville will use the media to convey information to residents and landowners about right of way responsibilities and maintenance	Deleted	
4.2.1 The Village of Bettsville will provide written information to property owners about the proper way to trim trees and shrubs to be disaster resistant	Deleted	
4.2.2 The Village of Bettsville will work with landowners to facilitate cleaning of ditches to remove debris and vegetation that impedes the flow of runoff water	Deleted	
4.3.1 The Village of Bettsville will provide information to property owners about the best species of trees and shrubs to plant to be disaster resistant	Deleted	
5.1.1 The Village of Bettsville will work with these facilities to find generators and sump pumps when needed so they can provide the highest amount of comfort for residents as possible during disasters.	Continuing	Sump pumps not acquired

Strategy	Status	Explanation
5.1.2 The Village of Bettsville will identify and train a group of volunteers or workers to manage the community gathering place as needed and when offered or occupied by residents	Deleted	County developed CERT
5.1.3 The Village of Bettsville will work with the Seneca County EMA to establish the operating procedures for the community gathering places, and to determine how and when they will be activated	Deleted	New ARC procedures
5.1.4 The Village of Bettsville will search for and identify funding sources to support the development and equipping of community gathering places for disaster relief purposes with at least sump pumps (as appropriate) and generators	Deleted	CERT assigned
1.1.1 The Village of Bloomville will work with these facilities to find generators and sump pumps when needed so they can provide the highest amount of comfort for residents as possible during disasters	Completed	Sump pumps not included
1.1.2 The Village of Bloomville will identify and train a group of volunteers or workers to manage the community gathering place as needed and when offered or occupied by residents	Deleted	County developed CERT
1.1.3 The Village of Bloomville will work with the Seneca County EMA to establish the operating procedures for the community gathering places, and to determine how and when they will be activated	Deleted	CERT assumed duty as part of EMA
2.1.1 The Village of Bloomville will encourage utility companies to bury existing overhead utility supply lines to make them resistant to disaster	Completed	
2.1.2 The Village of Bloomville will consider zoning rules and requirements that mandate utility lines to be underground for new construction and new subdivisions	Deleted	Village does not have responsibility
3.1.1 The Village of Bloomville will place information in letters and other pieces of written information sent to residents about right-of-way responsibilities of landowners	Deleted	
3.1.2 The Village of Bloomville will use the media to convey information to residents and landowners about right of way responsibilities and maintenance	Deleted	
3.2.1 The Village of Bloomville will provide written information to property owners about the proper way to trim trees and shrubs to be disaster resistant	Deleted	
3.2.2 The Village of Bloomville will work with landowners to facilitate cleaning of ditches to remove debris and vegetation that impedes the flow of runoff water	Completed	
3.2.2 The Village of Bloomville will work with landowners to facilitate cleaning of ditches to remove debris and vegetation that impedes the flow of runoff water.	Completed	
<b>FOSTORIA</b>		
1.1 The City of Fostoria will work with property owners to identify funding sources for landowners to be used to construct safe rooms for residences without basements or other underground protection areas.	Continued	Ongoing need

Strategy	Status	Explanation
1.2 The City of Fostoria will work with employers and other private businesses to identify funding sources for the construction of public safe rooms to be used by local guests and workers during tornadoes and severe windstorms.	Completed	
2.1 The City of Fostoria will monitor and maintain the structural components of the reservoir in an effort to prevent the failure of the structure that would result in significant flooding and damage to near-lying properties	Continued	Grant application in process to achieve this
2.2 The City of Fostoria will monitor and update the quantities of water flowing into and out of the reservoir on a regular basis so overflow and overload circumstances can be anticipated and breaches be prevented on a regular basis, preventing property damage from such an event if inflow or outflow rates become abnormal and /or excessive.	Continued	Project in process as a result of this
3.1.1 The City of Fostoria will examine the HMGP, CDBG, and other funding sources to identify funds that can be used to eliminate disaster repetitive loss properties and relocate inhabitants of those structures.	Continued	Ongoing need
4.1 The City of Fostoria will work to monitor and maintain the working condition of bridges, underpasses, and culverts so they withstand the stress of inclement and excessive precipitation, wind, and other natural stresses	Continued	Ongoing activity
5.1 The City of Fostoria will research examples of residential building code programs in communities similar to Fostoria, and will establish a plan to develop and implement a local residential building code	Continued	Ongoing need until adopted
5.2 The City of Fostoria will develop a residential building code for the new construction and significant renovation projects that will lessen the effects of the most frequent and destructive natural hazard incidents on the properties	Continued	Ongoing need until adopted
5.3 The City of Fostoria will involve residents, contractors, elected and appointed officials, and other appropriate parties in the process of establishing a local residential building code.	Continued	Ongoing need until adopted
6.1.1 The City of Fostoria will work with these facilities to find or purchase with identified funding generators and sump pumps when needed so they can provide the highest amount of comfort for residents as possible during disasters.	Completed	Sump pumps not funded
6.1.2 The City of Fostoria will identify and train a group of volunteers or workers to manage the community gathering place as needed and when offered or occupied by residents	Deleted	County developed CERT instead
6.1.3 The City of Fostoria will work with the Seneca County EMA to establish the operating procedures for the community gathering places, and to determine how and when they will be activated	Deleted	Transferred to County EMA

Strategy	Status	Explanation
6.1.4 The City of Fostoria will search for and identify funding sources to support the development and equipping of community gathering places for disaster relief purposes with at least sump pumps (as appropriate) and generators	Continued	Need still exists
7.1 The City of Fostoria will install additional outdoor warning sirens within the city to increase penetration of warning delivery to city residents, workers, and guests	Continued	Modified to include opt-in cellular and phone alerts
8.1.1 The City of Fostoria will work with its first responders to provide high quality training in response to rail accidents including and not including hazardous and extremely hazardous substances	Completed	
8.1.2 The City of Fostoria will work with its first responders to provide high quality training in response to fires and explosions involving fuels and hazardous or extremely hazardous substances that are being hauled as cargo on trains and trucks travelling through the city	Completed	
8.1.3 The City of Fostoria will work with first responders to identify funding for the purchase of specialty equipment needed to respond to and/or mitigate incidents involving transportation accidents.	Completed	
8.2.1 The City of Fostoria will work with the railroad to decrease crash likelihood through the city through enforcement of rail speed limits, warning sounds, and notification of extremely hazardous cargo	Continued	Ongoing need
8.2.2 The City of Fostoria will work to educate its citizens and workers about rail safety, and crossing safety to diminish the incidence of car-train accidents in city limits	Continued	Ongoing need
8.2.3 The City of Fostoria will work with the railroads to find methods of risk management and reduction for damages to homes that are located close to railroad tracks or are located near high-risk derailment zones where track turns and curves present additional derailment risk.	Continued	Ongoing need
<b>NEW RIEGEL</b>		
1.1.1 The Village of New Riegel will work with these facilities to find generators and sump pumps when needed so they can provide the highest amount of comfort for residents as possible during disasters.	Completed	Sump pumps not included
1.1.2 The Village of New Riegel will identify and train a group of volunteers or workers to manage the community gathering place as needed and when offered or occupied by residents.	Deleted	County developed CERT
1.1.3 The Village of New Riegel will work with the Seneca County EMA to establish the operating procedures for the community gathering places, and to determine how and when they will be activated	Deleted	County EMA assumed under CERT
1.1.4 The Village of New Riegel will search for and identify funding sources to support the development and equipping of community gathering places for disaster relief purposes with at least sump pumps (as appropriate) and generators	Deleted	Community will use school

Strategy	Status	Explanation
2.1.1 The Village of New Riegel will encourage utility companies to bury existing overhead utility supply lines to make them resistant to disaster	Deleted	Insufficient stakeholder support
2.1.2 The Village of New Riegel will consider zoning rules and requirements that mandate utility lines to be underground for new construction and new subdivisions	Deleted	Insufficient development to support need
3.1.1 The Village of New Riegel will place information in letters and other pieces of written information sent to residents about right-of-way responsibilities of landowners	Deleted	
3.1.2 The Village of New Riegel will use the media to convey information to residents and landowners about right of way responsibilities and maintenance	Deleted	
3.2.1 The Village of New Riegel will provide written information to property owners about the proper way to trim trees and shrubs to be disaster resistant	Deleted	
3.2.2 The Village of New Riegel will work with landowners to facilitate cleaning of ditches to remove debris and vegetation that impedes the flow of runoff water	Completed	
3.3.1 The Village of New Riegel will provide information to property owners about the best species of trees and shrubs to plant to be disaster resistant	Deleted	
1.1.1 The Village of Republic will work with these facilities to find generators and sump pumps when needed so they can provide the highest amount of comfort for residents as possible during disasters	Completed	Sump pumps not included
1.1.2 The Village of Republic will identify and train a group of volunteers or workers to manage the community gathering place as needed and when offered or occupied by residents	Deleted	County developed CERT instead
1.1.4 The Village of Republic will search for and identify funding sources to support the development and equipping of community gathering places for disaster relief purposes with at least sump pumps (as appropriate) and generators	Completed	
2.1.1 The Village of Republic will place information in letters and other pieces of written information sent to residents about right-of-way responsibilities of landowners	Deleted	
2.1.2 The Village of Republic will use the media to convey information to residents and landowners about right of way responsibilities and maintenance.	Deleted	
2.2.1 The Village of Republic will provide written information to property owners about the proper way to trim trees and shrubs to be disaster resistant	Deleted	
2.2.2 The Village of Republic will work with landowners to facilitate cleaning of ditches to remove debris and vegetation that impedes the flow of runoff water	Completed	
2.3.1 The Village of Republic will provide information to property owners about the best species of trees and shrubs to plant to be disaster resistant	Deleted	

Strategy	Status	Explanation
3.1.1 The Village of Republic will encourage utility companies to bury existing overhead utility supply lines to make them resistant to disaster	Completed	
3.1.2 The Village of Republic will consider zoning rules and requirements that mandate utility lines to be underground for new construction and new subdivisions.	Deleted	Insufficient stakeholder support
<b>TIFFIN</b>		
1.1.1 The City of Tiffin will rebuild the floodwalls that are deteriorated and unable to withstand the stress of heavy rainwaters	Continued	No funding source obtained
1.1.2 The City of Tiffin will repair the floodwalls that show signs of wear and tear, but are structurally sound and effective.	Continued	Maintenance is ongoing
1.2.1 The City of Tiffin will increase the size of storm sewers in the downtown area to more adequately handle heavy rain and runoff	Continued	No funding identified
1.2.2 The City of Tiffin will install check valves in storm sewer in low-lying areas to prevent backflow into the system during heavy rains and runoff in those areas	Continued	No funding identified
2.1.1 The City of Tiffin will work to identify funding and to develop applications to demolish repetitive loss and severe repetitive loss structures, and will work to identify local match funding as needed to apply for and utilize the mitigation programs identified.	Continued	No property owners took advantage of the program
2.1.2 The City of Tiffin will work with landowners to engage in a relocation project for inhabitants of identified repetitive loss and severe repetitive loss and blighted structures to be demolished as part of mitigation projects.	Continued	No property owners took advantage of the program
2.1.3 The City of Tiffin will demolish structures that are identified as repetitive loss, severe repetitive loss, and/or blighted/abandoned as a mitigation project	Continued	No property owners took advantage of the program
3.1 The City of Tiffin will create the process by which full residential building codes will be developed to include construction, electrical, and plumbing codes	Continued	Insufficient stakeholder support
3.2 The City of Tiffin will write and adopt residential building codes as a means to achieve mitigation goals of reducing damages due to disasters	Continued	Insufficient stakeholder support
3.3 The City of Tiffin will educate the construction industry and the general public about newly adopted residential building codes	Deleted	Codes not adopted
4.1.1 The City of Tiffin will work with these facilities to find generators and sump pumps when needed so they can provide the highest amount of comfort for residents as possible during disasters	Continued	Sump pumps not obtained at all; not enough generators obtained
4.1.2 The City of Tiffin will identify and train a group of volunteers or workers to manage the community gathering place as needed and when offered or occupied by residents	Deleted	County developed CERT

Strategy	Status	Explanation
4.1.3 The City of Tiffin will work with the Seneca County EMA to establish the operating procedures for the community gathering places, and to determine how and when they will be activated	Continued	Deferred to county for CERT
4.1.4 The City of Tiffin will search for and identify funding sources to support the development and equipping of community gathering places for disaster relief purposes with at least sump pumps (as appropriate) and generators	Deleted	Transferred to county and CERT
5.1 The City of Tiffin will continue to support and operate a fire department, police department, public health initiatives, and other safety forces to protect and preserve the city's resources and residents in a safe environment during disasters and large-scale emergencies.	Completed	City responsibility
5.2.1 The City of Tiffin will utilize special grant programs and other external funding to support internal sources of funds to achieve this goal.	Continued	Ongoing need for grant programs
5.3.1 The City of Tiffin will examine and evaluate public and private sources for support funding for safety force initiatives	Completed	
6.1.1 The City will assess the location of existing sirens and develop a plan that includes locations and numbers of additional sirens to be installed	Continued	Ongoing monitoring and upgrading; including op-in phone systems
6.1.2 The City of Tiffin will work with the Seneca County EMA to secure a funding source to pay for additional sirens, and to maintain them once installed	Continued	Universities need sirens rather than opt-in call programs
6.1.3 The City of Tiffin will install additional outdoor warning sirens in the City of Tiffin	Deleted	Modified to opt-in call notification systems
7.1.1 The City of Tiffin will work with institutions and organizations that serve functional needs clients to determine their plans of emergency action with the purpose of identifying gaps in capabilities and resources for functional needs and others who will need additional assistance	Completed	County EMA assessment
7.1.2 The City of Tiffin will develop a volunteer workforce to provide additional assistance to elderly, single parents, and others who are not considered functional needs clients but will need additional help during disaster.	Deleted	Transferred to county CERT program
7.1.3 The City of Tiffin will develop a communications process to reach these individuals during disasters to advise them of available help and resources	Deleted	Not practical

### **3.2 RISK PRIORITIES**

The Hazard Identification and Risk Assessment provides a detailed explanation of the hazards and risks Seneca County stakeholders identified through discussions of the frequency and severity of past hazards and potential damages from future incidents. This section builds on that information and identifies mitigation strategies that could reduce vulnerability to the identified hazards. When developing and prioritizing strategies, participants considered actions that would benefit the greatest number of people and considered how the strategy would be funded. In some cases, funding would come from the jurisdiction's general budget while others would require special funding, including state and federal grants. Ultimately, the planning team determined that strategies should be prioritized according to the hazard rank in the HIRA. The hazards were ranked using a comprehensive process that included frequency, response duration, speed of onset, magnitude, business impact, human impact, and property impact.

For each jurisdiction, a goal related to each specific hazard was developed. Within each goal, multiple mitigation strategies, or objectives, were created based on the proposed actions to reduce vulnerability. When prioritizing the strategies, the planning team considered cost of implementation and feasibility in completing the action. In general, strategies that were less expensive or easier to implement were prioritized higher because they were more likely to be completed. Projects requiring state or federal grant funding, extensive multi-agency collaboration, or other more complicated processes were considered lower priority because they would take more time to complete.

At strategy review meetings and during the final review phase of the plan, jurisdictions and stakeholders had the opportunity to revise strategies and adjust the prioritization. The final strategies presented in this section reflect those adjustments and revisions.

### **3.3 MITIGATION GOALS AND STRATEGIES**

Mitigation strategies were developed based on the input from planning team members, jurisdiction representatives, and a variety of stakeholders and were presented to the community for review prior to completion of the plan. This section identifies the mitigation goals and strategies for the county and each incorporated jurisdiction, along with the priority, action type, lead agency, timeline, and potential funding source for to each. While strategies are listed by jurisdiction, it may be most appropriate to delegate project administration and implementation to another entity when a strategy becomes an actionable project. It is not possible to foresee which districts, nonprofit organizations, or other entities might be that appropriate party at the time this plan is developed; therefore, other entities may actually be selected to apply for mitigation grants, administer the grants, implement the projects, and evaluate the results.

A variety of grant programs will be utilized to fund projects, as available. Pre-Disaster Mitigation and Flood Mitigation Assistance are grant programs that typically cycle annually, and funding is made available through local jurisdictions like counties, cities, villages and townships. Hazard Mitigation Grant Program funds become available to jurisdictions and other entities after an incident. Other grant programs may be utilized in addition to those mentioned above. These could include Community Development Block Grants, Clean Ohio grants, and Ohio Public Works funding as well as many other federal, state and private grant programs and low interest loan options. With new funding programs on the horizon, it was not possible to identify all potential funding sources at the time this plan was developed.

#### *Strategy Descriptors*

When developing strategies, the planning team considered who would be responsible for leading mitigation efforts, how the work would be funded, and in what order jurisdictions would address potential actions. These elements are defined in table 3-2 and identified for each strategy. Some of this information may change over the five-year life of this plan and as strategies are implemented.

Priority: Jurisdictions ranked hazards according to their local priorities. Goals and strategies are expressed alphabetically according to hazard for ease of comparison and to simplify use of the plan. The jurisdictions will address strategies in order of priorities as established in their individual jurisdiction. If the #1 hazard in a community is flood, then the flood strategies will be considered the highest priority.

Action Type: Each strategy is assigned to a type category based on the activity described:

- Natural Resource Protection – Reduce the impacts of natural hazard by preserving or restoring natural areas and their mitigation functions
- Prevention – Avoid hazard problems or stop impact from worsening
- Property Protection – Protect structures by modifying or strengthening building to withstand impact

- Public Information – Advise the public about hazards, hazardous areas, and mitigation techniques to protect people and property
- Structurally Engineered Project – Lessen the impact of a hazard by modifying the environment or progression of the hazard event through designed and engineered projects
- Public Safety Enhancement – These actions will improve, enhance, update or expand the services or support of services provided by law enforcement, fire departments and/or emergency medical services

Lead Agency: The lead agency is the entity charged with ensuring that officials look for opportunities to complete the strategy over the five-year planning cycle. This agency may not execute the strategy or be responsible for project oversight but is responsible for coordinating the overall effort or is the entity most appropriate to lead the initial stages of project development.

Timeline: The timeframe in which a mitigation strategy could realistically be implemented. The actual time frame may vary from what is described in this plan, depending on funding, grant opportunities, or changes in priorities as other critical activities are adjusted to meet evolving community needs.

Funding Source: The most likely funding sources for the strategy.

- FMA – Flood Mitigation Assistance Grant
- PDM – Pre-Disaster Mitigation Grant
- HMGP – Hazard Mitigation Grant Program
- SRL – Severe Repetitive Loss Grant
- RFC – Repetitive Flood Claims Program
- ICC – Increased Cost of Compliance (including rate increases or premiums)
- LOC – Local Funds
- ST – State Funds
- Other (including private funds and non-governmental agency funding)

### 3.3.1 Seneca County

The Seneca County mitigation goals and strategies address countywide mitigation issues and those in the unincorporated areas of the county. County officials will oversee implementation of these strategies. These mitigation strategies will be managed by county government officials, including the EMA Director, County Engineer, and Soil and Water Conservation District Manager. The County Engineer is responsible for road, bridge, and culvert maintenance as well as road ditch maintenance; Soil and Water Conservation District is the floodplain manager, oversees county ditches that are part of the countywide ditch maintenance program and works with natural resources. The EMA Director works with jurisdictions and officials across the county to promote and implement disaster and emergency preparedness measures.

Many of the identified strategies will be funded through the county's budget; a township, nonprofit organization, or special district may elect to apply for and administer grants for which the entity is eligible. These locally applied grant funds come from a variety of sources, including federal and state tax revenue, user fees, assessments and incentive programs, and others. Some of the larger natural resource preservation, property protection, and structurally engineered projects will require funding through special sources. These can include federal mitigation programs such as Pre-Disaster Mitigation and Hazard Mitigation Grant Program or other state and federal grant programs that may become available during the validity of this plan.

**Table 3-2: Seneca County Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: Seneca County will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The County will advocate and support the hardening of water supply infrastructure to include alternate sources of water and protection of treatment plants and distribution systems.					
43	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
1.2 The County will develop a plan of action to provide potable water to residents during a potentially lengthy water supply outage.					
44	Natural Resource Protection	EMA Director	01/09/2020	01/09/2025	LOC
<b>Goal 2 - Earthquake: Seneca County will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The County will identify the structures and infrastructure that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
41	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
2.2 The County will refine local emergency plan procedures for earthquake response to ensure that lives and property would be as protected as possible through warning and notification, protective actions, and dissemination of accurate and timely information					
42	Public Information	EMA Director	01/09/2020	01/09/2025	LOC
<b>Goal 3 – Flood: Seneca County will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					

Priority	Action Type	Lead	Start Date	End Date	Funding
3.1 The County will require construction of water control structures (reservoirs, retention/detention ponds, dams, levees, dikes, floodwalls, etc.) to prevent flooding of properties.					
29	Structurally Engineered Projects	County Engineer	01/09/2020	01/09/2025	LOC; PDM; HMGP; CDBG; ICC
3.2 The County will acquire, demolish, and/or retrofit flood-prone structures.					
8	Prevention	EMA Director	01/09/2020	01/09/2025	PDM; HMGP; SRL; FMA; RFC; Other
3.3 The County will clear debris, fallen trees, excess sediment, and other obstructions from waterways to improve flow.					
28	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; ICC; Other
3.4 The County will work with watershed or conservancy districts and other jurisdictions that share an interest in waterways to facilitate cleaning, maintaining, and eliminating problems.					
11	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; ICC; Other
3.5 The County will utilize natural habitat creation and/or use of vegetative buffers inside waterways to slow the rapid flow of floodwater and/or hold excess storm water.					
10	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; ICC; Other
3.6 The County will maintain and enforce floodplain, zoning, and existing building regulations to manage development in flood-prone areas.					
12	Prevention		01/09/2020	01/09/2025	LOC
3.7 The County will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
9	Prevention	SWCD Director	01/09/2020	01/09/2025	LOC
3.8 The County will conduct a public awareness campaign for individual flood insurance awareness.					
26	Public Information	EMA Director	01/09/2020	01/09/2025	LOC
3.9 The County will procure adequate temporary or changeable signs to mark flooded roadways quickly.					
27	Public Information	County Engineer	01/09/2020	01/09/2025	LOC
3.10 The County will improve and repair roadways and berms damaged by rapid runoff and heavy precipitation.					
13	Property Protection	County Engineer	01/09/2020	01/09/2025	CDBG; LOC
3.11 The County will work with railroads to identify a means to repair and improve railroad owned bridges, culverts, overpasses, and abandoned tracks and keep them clear of debris and abandoned equipment.					
14	Property Protection	County Engineer	01/09/2020	01/09/2025	LOC
3.12 The County will identify and implement methods to collect debris in runoff water before it clogs ditches, streams, culverts, and other waterways.					
15	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
3.13 The County will protect banks and land near waterways from deterioration due to rapid or excessive flow by planting stream bank vegetation, installing dormant woody stakes and posts, planting trees, shrubs and grasses along banks and berms, or using deflectors to prevent deterioration, or other similar methods to accomplish the same.					
18	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; Other
3.14 The County will utilize biotechnical methods (placement of willow posts, hardwood tree plantings, fascines, brush layering, evergreen revetments, log revetments, tree kickers, lunger structures, or placed rocks as examples) to minimize the deterioration or destruction of stream banks due to excessive flow.					
17	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; Other
3.15 The County will manage stream flow through channel, sedimentation, debris and obstruction, and stream ecology management practices.					
20	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; ICC; Other
3.16 The County will utilize stream bank protection measures such as gabion revetments, riprap revetments, and crib walls, and other structural methods to protect the banks and berms.					
16	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; ICC; Other
3.17 The County will request that developers and/or construction crews use tools such as chemical stabilization, compost blankets, geotextiles to control soil deterioration, mulching of new plantings, seeding and sodding of areas highly vulnerable to rapid surface runoff, installation of grass lined channels, slope diversion for surface runoff, and other methods to reduce the damages to land and property due to heavy and rapid surface runoff or drainage from rainfall or other precipitation or draining water.					
19	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; ICC; Other
3.18 The County will encourage the use of eco-friendly green materials and practices in development, such as green parking policies, green roof materials, and alternate paving materials that promote absorption instead of runoff.					
21	Property Protection	County Engineer	01/09/2020	01/09/2025	LOC; Other
3.19 The County will protect soil quality by advocating for crop rotation, crop residue management, contour buffer strips, contour farming and strip-cropping, use of cover crops, installation of field borders, rotation grazing, pasture planting, establishment of grassy waterways, grade stabilization structures, water and sediment control basins, critical area planting, diversion, terracing, manure storage and runoff control, nutrient management, pest management, well abandonment, riparian buffers, wetland restoration, windbreaks, woodlot management, tree planting, and creation of upland wildlife habitat on farmland inside, adjacent to, or near incorporated County property.					
22	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; Other
3.20 The County will encourage management of surface runoff and chemical residue through techniques such as installation of grassy waterways, creation of infiltration basins and trenches, porous pavement installation, filtration techniques like use of catch basin inserts, sand and organic filters, rain gardens and vegetated filter strips.					
23	Natural Resource Protection	SWCD Director	01/09/2020	01/09/2025	LOC; ICC; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
3.21 The County will continue to inform property owners of karst water levels that approach flood stage, and will advocate for the study of flooding risks specifically attributed to karst characteristics.					
24	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
3.22 The County will work with property owners, farmers, quarry owners, and others whose land is affected by karst flooding to identify mitigation opportunities that will protect their property.					
25	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
<b>Goal 4 – Hazardous Materials Incident: Seneca County will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.</b>					
4.1 The County will ensure signage on highways and roadways is clear and easy to follow to decrease the likelihood of vehicle accidents due to unsure routes of travel.					
47	Public Information	County Engineer	01/09/2020	01/09/2025	LOC; ST
4.2 The County will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
48	Public Safety	EMA Director	01/09/2020	01/09/2025	LOC; Other
4.3 The County will collaborate with entities that bring new hazardous substances to communities through construction of additional highways, railroads, or pipelines for first responder training.					
49	Public Safety	EMA Director	01/09/2020	01/09/2025	LOC; ST; Other
4.4 The County will enforce load limits on county roads, bridges, and overpasses to prevent hazardous materials spills and releases due to overweight and out-of-compliance hauling.					
50	Property Protection	Sheriff	01/09/2020	01/09/2025	
<b>Goal 5 – Invasive Species: Seneca County will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					
5.1 The County will maintain trees and vegetation on public/jurisdiction property and advocate for the same on private property.					
58	Property Protection	County Engineer	01/09/2020	01/09/2025	LOC; Other
5.2 The County will work to clear public and private areas of dead or diseased trees that will easily be damaged by wind events and cause destruction of other property.					
59	Property Protection	County Engineer	01/09/2020	01/09/2025	LOC; Other
<b>Goal 6 – Infrastructure Failure: Seneca County will lessen damages to property due to infrastructure failure by hardening utilities and infrastructure to meet the needs of the community.</b>					
6.1 The County will work to ensure all classified dams (including upground reservoirs and treatment lagoons) are well maintained, protect properties within inundation zones, and limit the risks associated with dam failure to the potentially affected community					
1	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
6.2 The County will ensure that dams have emergency plans that identify inundation areas and facilitate for emergency actions in the case of a serious failure.					
7	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
6.3 The County will support, facilitate, and advocate for repair and refurbishment of any classified dam that poses a danger to the nearby community due to ill repair, damage, or structural insufficiency.					
6	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC, PDM, HMGP, Other
6.4 The County will repair, replace, upgrade, and add storm sewers where needed to more quickly and efficiently manage the movement of storm water after heavy precipitation and/or during flooding.					

Priority	Action Type	Lead	Start Date	End Date	Funding
2	Property Protection	County Engineer	01/09/2020	01/09/2025	ST, LOC, PDM, HMGP, Other
6.5 The County will repair, replace, widen or strengthen roads, bridges, culverts, berms and overpasses that have deteriorated due to drainage and other storm-related wear and tear, or through use by vehicles that exceed the capability of the structures, with stronger, more robust infrastructure that will deflect stormwater and provide stronger structures for current use.					
3	Structurally Engineered Project	County Engineer	01/09/2020	01/09/2025	ST, LOC, PDM, HMGP, Other
6.6 The County will elevate roads, bridges, and other infrastructure to prevent closures during times of heavy precipitation or heavy snowmelt by removing it from the flooded area.					
5	Structurally Engineered Projects	County Engineer	01/09/2020	01/09/2025	ST, LOC, PDM, HMGP, Other
6.7 The County will work with utility providers to harden electrical and cellular service by installing wind-resistant poles and lines, and by providing generators for pump stations, relay stations, and repeater towers.					
4	Property Protection	County Engineer	01/09/2020	01/09/2025	ST, LOC, PDM, HMGP, Other
6.8 The County will take action to protect the county landfill and surrounding area to ensure the landfill's capacity to function as a critical resource in disaster recovery.					
54	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC, ST, Other
<b>Goal 7 – Land Subsidence: Seneca County will reduce the risk of property damage due to land subsidence in at-risk areas, including areas with karst formations.</b>					
7.1 The County will support and conduct programs that reduce erosion and sedimentation along riverbanks, ditch banks, road berms, and areas that wash away after heavy or prolonged precipitation.					
51	Natural Resource Protection	County Engineer	01/09/2020	01/09/2025	LOC; Other
7.2 The County will encourage the development of more specific and accurate mapping of karst areas in Seneca County that interfaces the geologic characteristics with the soil types, as well as identifying abandoned and functioning wells and mines of various types, to more accurately identify karst locations and predict where sink holes or other structural problems are likely to occur.					
52	Property Protection	County Engineer	01/09/2020	01/09/2025	LOC; ST
7.3 The County will develop collaborative efforts with appropriate partners and stakeholders to more accurately determine risk to groundwater resources in the county, and work together to adequately and effectively prevent contamination of the groundwater.					
53	Natural Resource Protection	EMA Director	01/09/2020	01/09/2025	LOC
<b>Goal 8– Severe Thunderstorm, Tornado, and Windstorm: Seneca County will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					
8.1 The County will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and mass gathering facilities.					
30	Property Protection	EMA Director	01/09/2020	01/09/2025	PDM; HMGP

Priority	Action Type	Lead	Start Date	End Date	Funding
8.2 The County will repair or retrofit public properties with wind-resistant materials (i.e. metal roofing, siding, etc.) to decrease damage due to wind as replacement and repair occurs and as possible.					
38	Property Protection	Chief Building Official	01/09/2020	01/09/2025	LOC; Other
8.3 The County will develop agreements for emergency shelters to be used for a variety of disaster-related purposes during severe storms and/or evacuations in rural areas of the county.					
31	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC; Other
8.4 The County will research and identify resources for affordable debris disposal after storms, possibly through creation of special funding to pay for landfill fees or finding facilities that will receive debris for reduced rates.					
40	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
8.5 The County will establish, maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
38	Public Information	EMA Director	01/09/2020	01/09/2025	LOC; PDM; Other
8.6 The County will provide community education about protective actions, evacuation procedures, and other disaster preparedness information.					
31	Public Information	EMA Director	01/09/2020	01/09/2025	LOC
8.7 The County will advocate for residents to maintain adequate insurance coverage (homeowners, renters, flood, etc.).					
36	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC
8.8 The County will maintain building regulations and land-use planning practices that encourage responsible development in high-risk areas.					
35	Property Protection	Chief Building Official	01/09/2020	01/09/2025	LOC; ICC; Other
8.9 The County will work to develop a local, affordable and functional county-wide public safety communication system with the capability for multi-discipline and multi-jurisdictional communication.					
39	Public Safety	EMA Director	01/09/2020	01/09/2025	LOC; Other
8.10 The County will work to fill gaps in warning and notification systems by developing reverse 911 capabilities and by enhancing public notification processes.					
32	Property Protection	EMA Director	01/09/2020	01/09/2025	LOC; ST; ICC; Other
8.11 The County will advocate and support the hardening of utilities (distribution lines, generating plants, and other system components).					
33	Property Protection	County Engineer	01/09/2020	01/09/2025	Other
8.12 The County will identify alternate/back-up utility resources for use when primary source is compromised (generators, redundant suppliers, etc.).					
34	Property Protection	EMA Director	01/09/2020	01/09/2025	Other
<b>Goal 9 – Water Quality; Seneca County will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
9.1 The County will advocate for improvements to water treatment plants, including enhanced testing and monitoring and improved treatment capabilities.					
54	Natural Resource Protection	Public Health Commissioner	01/09/2020	01/09/2025	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
9.2 The County will work for early and pro-active collaboration between jurisdictions regarding spills or leaks into the water supply through seepage into wells, aquifers, reservoirs or waterways that will eventually affect local water quality.					
55	Natural Resource Protection	Public Health Commissioner	01/09/2020	01/09/2025	LOC; COG
9.3 The County will advocate for and support the implementation of regulations and supportive programs that help farmers manage manure and waste from concentrated animal feeding facilities in the interest of protecting the groundwater and waterways from contamination.					
56	Natural Resource Protection	Soil & Water Conservation Director	01/09/2020	01/09/2025	LOC; Other
9.4 The County will support the implementation of measures to manage distressed watersheds in the county and advocate for support programs to help farmers implement these regulations and measures while maintaining the agricultural economic well-being.					
57	Natural Resource Protection	Soil & Water Conservation Director	01/09/2020	01/09/2025	LOC; Other
<b>Goal 10 – Winter Storms: Seneca County will lessen damages suffered from severe winter storms and blizzards.</b>					
10.1 The County will work to plow and clear county-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
45	Property Protection	County Engineer	01/09/2020	01/09/2025	LOC
10.2 The County will develop collaborative efforts with environmental and water quality advocates to more accurately determine risk to groundwater resources in the county and work together to adequately and effectively prevent contamination of the groundwater through snow removal and salting of icy roads.					
46	Natural Resource Protection	Public Health Commissioner	01/09/2020	01/09/2025	LOC

### 3.3.2 Attica

For Attica, mitigation strategies will be monitored and championed by the village administrator, who will work with elected officials to identify mitigation opportunities and implement strategies. The majority of mitigation actions will be funded through local budgets. When possible, state and federal grants will be sought to help fund these efforts.

**Table 3-3: Attica Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: Attica will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The Village will advocate and support development of alternate sources of water and protection of the village’s treatment plants and distribution systems from contamination or damage.					
27	Natural Resource Protection	Village Administrator	01/09/2020	01/08/2025	LOC
<b>Goal 2 - Earthquake: Attica will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The Village will identify the structures and infrastructure that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
28	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC
<b>Goal 3 – Flood: Attica will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					
3.1 The Village will require construction of water control structures (reservoirs, retention/detention ponds, dams, levees, dikes, floodwalls, etc.) to prevent flooding of properties when new construction occurs.					
17	Structurally Engineered Project	Village Administrator	01/09/2020	01/08/2025	LOC; PDM
3.2 The Village will acquire, demolish, and/or retrofit flood-prone structures.					
11	Prevention	Village Administrator	01/09/2020	01/08/2025	PDM; SRL; FMA; HMGP
3.3 The Village will clear debris, fallen trees, excess sediment, and other obstructions from waterways to improve flow.					
12	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC
3.4 The Village will utilize natural habitat creation and/or use of vegetative buffers inside waterways to slow the rapid flow of floodwater and/or hold excess storm water.					
13	Natural Resource Protection	Village Administrator	01/09/2020	01/08/2025	LOC
3.5 The Village will repair, replace and add storm and sanitary sewers, streets, berms, and other structures that will help control flash flooding, allow for more rapid drainage of streets, and protect properties by directing water away from structures.					
14	Prevention	Village Administrator	01/09/2020	01/08/2025	LOC
3.6 The Village will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
15	Prevention	Village Administrator	01/09/2020	01/08/2025	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
3.7 The Village will improve and repair roadways and berms damaged by rapid runoff and heavy precipitation.					
16	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC
<b>Goal 4 – Hazardous Materials Incident: Attica will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.</b>					
4.1 The Village will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
24	Public Safety	Village Administrator	01/09/2020	01/08/2025	LOC; Other
4.2 The Village will identify ways to protect Honey Creek on the south side of the village from contamination by vehicular accidents on State Route 4, either by bridge improvements or by other structural protection.					
23	Natural Resource Protection	Village Administrator	01/09/2020	01/08/2025	LOC: PDM; HMGP
<b>Goal 5 – Infrastructure Failure: Attica will work to identify means and methods to improve the capacity of storm sewers, to improve drainage throughout the city, and to add berms and other control structures that help direct the flow of water away from property.</b>					
5.1 The Village will develop a storm sewer improvement plan to be implemented as funding is available that will match stormwater management capacity to current need under conditions of heavy and long-lasting precipitation to lessen flash flooding and protect property from flash flooding.					
18	Structurally Engineered Project	Village Administrator	01/09/2020	01/08/2025	PDM
5.2 The Village will repair and replace streets, berms, storm basins, and other structures that direct the flow of runoff away from property and into storm sewers.					
19	Property Protection	Village Administrator	01/09/2020	01/08/2025	PDM
5.3 The Village will repair, retrofit, reinforce or replace the up-ground reservoir that collects raw water for the village water plant to treat and distribute to residents.					
21	Structurally Engineered Project	Village Administrator	01/09/2020	01/08/2025	LOC, ST, PDM, HMGP, Other
5.4 The Village will improve the water treatment plant to detect and identify pollutants and algal bloom issues early to allow for rapid identification and treatment of threats to the water supply for the village.					
20	Natural Resource Protection	Village Administrator	01/09/2020	01/08/2025	LOC, ST, PDM, HMGP, Other
<b>Goal 6 – Invasive Species: Attica will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					
6.1 The Village will maintain trees and vegetation on public/jurisdiction property and advocate for the same on private property.					
25	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC
<b>Goal 7 – Severe Thunderstorm, Tornado, and Windstorm: Attica will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					

Priority	Action Type	Lead	Start Date	End Date	Funding
7.1 The Village will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and entertainment or mass gathering facilities.					
1	Property Protection	Village Administrator	01/09/2020	01/08/2025	PDM; Other
7.2 The Village will develop agreements for emergency shelters to be used for a variety of disaster-related purposes during severe storms and/or evacuations including domiciliary facilities.					
2	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC
7.3 The Village will research and identify resources for affordable debris disposal after storms, possibly through creation of special funding to pay for landfill fees or finding facilities that will receive debris for reduced rates.					
3	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC; Other
7.4 The Village will maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
10	Public Information	Village Administrator	01/09/2020	01/08/2025	LOC; PDM; Other
7.5 The Village will provide community education about protective actions, evacuation procedures, and other disaster preparedness information, including messages targeted toward transient populations such as festival participants and racetrack patrons.					
5	Public Information	Village Administrator	01/09/2020	01/08/2025	LOC
7.6 The Village will maintain building regulations and land-use planning practices that encourage responsible development in high-risk areas.					
9	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC; Other
7.7 The Village will work to develop a local, affordable and functional county-wide public safety communication system with the capability for multi-discipline and multi-jurisdictional communication.					
6	Public Safety	Village Administrator	01/09/2020	01/08/2025	LOC; Other
7.8 The Village will work to fill gaps in warning and notification systems by adding outdoor warning sirens, developing reverse 911 capabilities, and by enhancing public notification processes to include system access for out-of-town guests and visitors.					
4	Public Information	Village Administrator	01/09/2020	01/08/2025	LOC; Other
7.9 The Village will advocate and support the hardening of utilities (distribution lines, generating plants, and other system components).					
7	Prevention	Village Administrator	01/09/2020	01/08/2025	Other
7.10 The Village will identify alternate/back-up utility resources for use when primary source is compromised (generators, redundant suppliers, etc.).					
8	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC; PDM; HMGP; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 8 – Water Quality: Attica will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
8.1 The Village will advocate for financial and technical resources that affordably help small communities improve testing capabilities, provide for improved source water protection measures, and provide equipment to more adequately secure reservoirs and water tanks.					
22	Natural Resource Protection	Village Administrator	01/09/2020	01/08/2025	LOC
<b>Goal 9 – Winter Storms: Attica will lessen damages suffered from severe winter storms and blizzards.</b>					
9.1 The Village will work to plow and clear village-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
26	Property Protection	Village Administrator	01/09/2020	01/08/2025	LOC

### 3.3.3 Bettsville

In Bettsville, the Village Administrator will monitor mitigation strategies and collaborate with other village officials to identify mitigation opportunities and implement strategies. The majority of mitigation actions will be funded through local budgets. When possible, state and federal grants will be sought to help fund these efforts.

**Table 3-4: Bettsville Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: Bettsville will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The Village will advocate and support the hardening of water supply infrastructure to include alternate sources of water and protection of treatment plants and distribution systems.					
34	Natural Resource Protection	Village Administrator	01/09/2020	01/09/2025	LOC
<b>Goal 2 - Earthquake: Bettsville will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The Village will identify the structures and infrastructure that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
37	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC
<b>Goal 3 – Flood: Bettsville will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					
3.1 The Village will require construction of water control structures (reservoirs, retention/detention ponds, dams, levees, dikes, floodwalls, etc.) to prevent flooding of properties.					
11	Structurally Engineered Projects	Village Administrator	01/09/2020	01/09/2025	LOC; PDM; CDBG; Other
3.2 The Village will work to identify areas vulnerable to karst flooding, and will identify methods to prevent damage such as lifted pavement, tree damage and foundation destruction, from karst flooding including that suffered by private homes, public property and businesses.					
9	Structurally Engineered Projects	Village Administrator	01/09/2020	01/09/2025	LOC; CDBG; PDM; HMGP
3.3 The Village will acquire, demolish, and/or retrofit flood-prone structures.					
10	Prevention	Village Administrator	01/09/2020	01/09/2025	LOC; PDM; SRL; FMA; Other
3.4 The Village will consider channel diversion or modification (deepening or widening) to re-route water or increase capacity and reduce flooding.					
1	Structurally Engineered Project	Village Administrator	01/09/2020	01/09/2025	LOC; CDBG; PDM; Other
3.5 The Village will clear debris, fallen trees, excess sediment, and other obstructions from waterways to improve flow.					
2	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
3.6 The Village will utilize natural habitat creation and/or use of vegetative buffers inside waterways to slow the rapid flow of floodwater and/or hold excess storm water.					

Priority	Action Type	Lead	Start Date	End Date	Funding
3	Natural Resource Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
3.7 The Village will maintain and enforce floodplain, zoning, and building regulations to manage development in flood-prone areas.					
5	Prevention	Village Administrator	01/09/2020	01/09/2025	LOC; ICC; Other
3.8 The Village will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
4	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC
3.9 The Village will conduct a public awareness campaign for individual flood insurance awareness.					
12	Public Education	Village Administrator	01/09/2020	01/09/2025	LOC
3.10 The Village will maintain, repair, upgrade, and/or replace storm sewers and related systems and increase culvert sizes and bridge spans to improve drainage.					
6	Structurally Engineered Project	Village Administrator	01/09/2020	01/09/2025	LOC; CDBG; Other
3.11 The Village will improve and repair streets and berms damaged by rapid runoff and heavy precipitation.					
7	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
3.12 The Village will identify and implement methods to collect debris in runoff water before it clogs ditches, streams, culverts, and other waterways.					
8	Natural Resource Protection	Village Administrator	01/09/2020	01/09/2025	LOC
<b>Goal 4 – Hazardous Materials Incident: Bettsville will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.</b>					
4.1 The Village will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
31	Public Safety	Fire Chief	01/09/2020	01/09/2025	LOC; ST; Other
4.2 The Village will ensure that signage and traffic signals are in operable condition to prevent vehicle accidents in the village that could likely include farm vehicles transporting agricultural chemicals.					
32	Property Protection	Fire Chief	01/03/2020	01/09/2025	LOC
<b>Goal 5 – Infrastructure Failure: Bettsville will repair, replace and improve infrastructure to enhance resistance to storm damages and flooding.</b>					
5.1 The Village will monitor and investigate stress, signs of damage, and actual damage to underground utilities, power poles, and utility regulators in buildings by ongoing quarrying operations and blasting.					
13	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC, Other
5.2 Bettsville will repair, replace, reinforce or strengthen underground utilities, roads, sidewalks, and other utility components like treatment plants and pump stations to prevent, delay, or correct damages due to blasting, heavy truck traffic on streets, or severe storms in combination with daily operations.					
14	Structurally Engineered Projects	Village Administrator	01/09/2020	01/09/2025	LOC, ST, PDM, Other
<b>Goal 6 – Invasive Species: Bettsville will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					

Priority	Action Type	Lead	Start Date	End Date	Funding
6.1 The Village will maintain trees and vegetation on public/jurisdiction property and advocate for the same on private property.					
35	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC
6.2 The Village will work to clear public and private areas of dead or diseased trees that will easily be damaged by wind events and cause destruction of other property.					
36	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC
<b>Goal 7 – Land Subsidence: Bettsville will reduce the risk of property damage due to land subsidence in at-risk areas.</b>					
7.1 The Village will encourage the development of more specific and accurate mapping of karst areas in Seneca County that interfaces the geologic characteristics with the soil types, as well as identifying abandoned and functioning wells and mines of various types, to more accurately identify karst locations and predict where sink holes or other structural problems are likely to occur.					
17	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
7.2 The Village will develop collaborative efforts with environmental and water quality advocates to more accurately determine risk to groundwater resources due to nearby quarrying operations, and work together to adequately and effectively prevent contamination of the groundwater.					
16	Natural Resource Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
7.3 The Village will continually assess village infrastructure for damage from quarry blasting to identify and repair foundation damage, damage to streets, bridges and culverts, stress and strain on pipes and lines below the ground, and detected damage to foundations, structures, and other infrastructure.					
15	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
<b>Goal 8 – Severe Thunderstorm, Tornado, and Windstorm: Bettsville will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					
8.1 The Village will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and mass gathering facilities.					
20	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; PDM
8.2 The Village will develop agreements for emergency shelters to be used for a variety of disaster-related purposes during severe storms and/or evacuations.					
21	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
8.3 The Village will research and identify resources for affordable debris disposal after storms, possibly through creation of special funding to pay for landfill fees or finding facilities that will receive debris for reduced rates.					
22	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; Other
8.4 The Village will establish, maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
30	Public Information	Village Administrator	01/09/2020	01/09/2025	LOC; ST

Priority	Action Type	Lead	Start Date	End Date	Funding
8.5 The Village will provide community education about protective actions, evacuation procedures, and other disaster preparedness information.					
29	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC
8.6 The Village will advocate for residents to maintain adequate insurance coverage (homeowners, renters, flood, etc.).					
23	Property Protection	Village Administrator	01/09/2020	01/09/2025	Other
8.7 The Village will maintain building regulations and land-use planning practices that encourage responsible development in high-risk areas.					
28	Prevention	Village Administrator	01/09/2020	01/09/2025	LOC
8.8 The Village will work to develop a local, affordable and functional county-wide public safety communication system with the capability for multi-discipline and multi-jurisdictional communication.					
27	Public Safety	Police Chief	01/09/2020	01/09/2025	LOC; ST; Other
8.9 The Village will work to fill gaps in warning and notification systems by adding outdoor warning sirens, developing reverse 911 capabilities, and by enhancing public notification processes.					
26	Public Information	Village Administrator	01/09/2020	01/09/2025	LOC; ST
8.10 The Village will advocate and support the hardening of utilities (distribution lines, generating plants, and other system components).					
24	Property Protection	Village Administrator	01/09/2020	01/09/2025	ICC; Other
8.11 The Village will identify alternate/back-up utility resources for use when primary source is compromised (generators, redundant suppliers, etc.).					
25	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC; ICC; Other
<b>Goal 9 – Water Quality: Bettsville will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
9.1 The Village will advocate for improvements to water treatment plants, including enhanced testing and monitoring and improved treatment capabilities.					
19	Natural Resource Protection	Village Administrator	01/09/2020	01/09/2025	LOC; ST; Other
9.2 The Village will advocate for additional research into the effect of quarrying operations on the water supply, including water supplies and aquifer vulnerability to unintentional draining through drilling, wells, potential damage to distribution lines, and damage to underground tanks.					
18	Natural Resource Protection	Village Administrator	01/09/2020	01/09/2025	LOC; ST; Other
<b>Goal 10 – Winter Storms: Bettsville will lessen damages suffered from severe winter storms and blizzards.</b>					
10.1 The Village will work to plow and clear village-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
33	Property Protection	Village Administrator	01/09/2020	01/09/2025	LOC

### 3.3.4 Bloomville

Bloomville mitigation strategies will be monitored by the Mayor. The Mayor, along with village council and other community stakeholders, will identify opportunities to implement appropriate mitigation actions. The majority of mitigation actions will be funded through the village's local budget; state and federal grants will be sought when possible.

**Table 3-5: Bloomville Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: Bloomville will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The Village will advocate and support the hardening of water supply infrastructure to include alternate sources of water and protection of treatment plants and distribution systems.					
22	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 2 - Earthquake: Bloomville will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The Village will identify the structures and infrastructure that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
25	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 3 – Flood: Bloomville will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					
3.1 The Village will acquire, demolish, and/or retrofit flood-prone structures.					
16	Prevention	Mayor	01/09/2020	01/09/2025	PDM; HMGP
3.2 The Village will maintain and enforce floodplain, zoning, and building regulations to manage development in flood-prone areas.					
15	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
3.3 The Village will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
14	Prevention	Mayor	01/09/2020	01/09/2025	LOC
3.4 The Village will maintain, repair, upgrade, and/or replace storm sewers and related systems and increase culvert sizes and bridge spans to reduce flooding and improve drainage.					
18	Structurally Engineered Project	Mayor	01/09/2020	01/09/2025	LOC; CDBG; Other
3.5 The Village will improve and repair roadways and berms damaged by rapid runoff and heavy precipitation.					
17	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 4 – Hazardous Materials: Bloomville will decrease the damages and interruptions due to hazardous materials spills and releases.</b>					
4.1 The Village will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
21	Public Safety	Mayor	01/09/2020	01/09/2025	LOC; ST; Other
<b>Goal 5 – Infrastructure Failure: Bloomville will protect infrastructure to prevent deterioration of streets, sidewalks, and berms; water treatment and distribution systems; utilities; and communications capital equipment.</b>					
5.1 The Village will harden storm drainage systems through the acquisition of additional pumps and generators to facilitate gravitational drainage systems after severe storms and heavy precipitation.					

Priority	Action Type	Lead	Start Date	End Date	Funding
1	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP
5.2 The Village will work to repair, restore and replace streets, berms, and sidewalks to facilitate rapid and effective drainage after heavy precipitation and to prevent flash flooding.					
2	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP: LOC
5.3 The Village will increase the capacity of gravitational drainage to manage runoff from elevated highways that pass through the village, and to prevent dumping this runoff onto private property.					
3	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP: LOC
5.4 The Village will identify infrastructure improvements that will prevent widespread basement flooding after heavy precipitation, and will act to divert this runoff into new or existing storm sewers or waterways.					
4	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP: LOC
<b>Goal 6 – Invasive Species: Bloomville will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					
6.1 The Village will maintain trees and vegetation on public/jurisdiction property and advocate for the same on private property.					
26	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
6.2 The Village will work to clear public and private areas of dead or diseased trees that will easily be damaged by wind events and cause destruction of other property.					
27	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 7 – Land Subsidence: Bloomville will reduce the risk of property damage due to land subsidence in at-risk areas.</b>					
7.1 The Village will advocate for, support, and implement slope protection actions along waterways and other vulnerable areas where natural causes endanger property, structures, or other vulnerabilities exist.					
19	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC; PDM
7.2 The Village will encourage the development of more specific and accurate mapping of karst areas in Seneca County that interfaces the geologic characteristics with the soil types, as well as identifying abandoned and functioning wells and mines of various types, to more accurately identify karst locations and predict where sink holes or other structural problems are likely to occur.					
20	Prevention	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 8 – Severe Thunderstorm, Tornado, and Windstorm: Bloomville will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					
8.1 The Village will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and mass gathering facilities.					
5	Property Protection	Mayor	01/09/2020	01/09/2025	PDM; LOC; HMGP
8.2 The Village will repair or retrofit public properties with wind-resistant materials (i.e. metal roofing, siding, etc.) to decrease damage due to wind.					
7	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; Other
8.3 The Village will develop adequate and appropriately-equipped emergency shelters with generators to be used for a variety of disaster-related purposes during severe storms and/or evacuations.					
6	Property Protection	Mayor	01/09/2020	01/09/2025	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
8.4 The Village will research and identify resources for affordable debris disposal after storms, possibly through creation of special funding to pay for landfill fees or finding facilities that will receive debris for reduced rates.					
8	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; ICC; Other
8.5 The Village will establish, maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
11	Public Information	Mayor	01/09/2020	01/09/2025	LOC; ST
8.6 The Village will provide community education about protective actions, evacuation procedures, and other disaster preparedness information.					
9	Public Information	Mayor	01/09/2020	01/09/2025	LOC
8.7 The Village will work to fill gaps in warning and notification systems by adding outdoor warning sirens, developing reverse 911 capabilities, and by enhancing public notification processes.					
12	Public Information	Mayor	01/09/2020	01/09/2025	LOC; ST
8.8 The Village will identify needed alternate/back-up utility resources and will acquire the needed equipment for use when primary power is compromised (generators, pumps, redundant connections, etc.).					
10	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; PDM; HMGP
<b>Goal 9 – Water Quality: Bloomville will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
9.1 The Village will advocate for improvements to their water treatment plant, including enhanced testing and monitoring and improved treatment capabilities.					
23	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC
9.2 The Village will work for early and pro-active collaboration between jurisdictions regarding spills or leaks into the water supply through seepage into wells, aquifers, reservoirs or waterways that will eventually affect local water quality.					
24	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 10 – Winter Storms: Bloomville will lessen damages suffered from severe winter storms and blizzards.</b>					
10.1 The Village will work to plow and clear village-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
13	Property Protection	Mayor	01/09/2020	01/09/2025	LOC

### 3.3.5 Fostoria

In Fostoria, mitigation strategies will be monitored and championed by the Safety and Service Director. The Director will work with the mayor, council, other community officials to identify mitigation opportunities. The majority of mitigation actions will be funded through local budgets. When possible, state and federal grants will be sought to help fund these efforts.

**Table 3-6: Fostoria Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: Fostoria will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The City will advocate and support the hardening of water supply infrastructure to include alternate sources of water and protection of treatment plants and distribution systems.					
37	Natural Resources Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; CDBG
<b>Goal 2 - Earthquake: Fostoria will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The City will identify the structures and infrastructure in the city that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
36	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
<b>Goal 3 – Flood: Fostoria will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					
3.1 The City will require construction of water control structures (reservoirs, retention/detention ponds, dams, levees, dikes, floodwalls, etc.) to prevent flooding of properties.					
1	Structurally Engineered Projects	City Engineer	01/09/2020	01/09/2025	LOC; PDM; HMGP; FMA; CDBG; Other
3.2 The City will elevate structures and infrastructure (buildings, roadways, bridges, culverts etc.) to prevent flooding of streets, underpasses, and bridges/culverts.					
2	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; PDM; HMGP; FMA; CDBG; Other
3.3 The City will acquire, demolish, and/or retrofit flood-prone structures.					
3	Prevention	City Engineer	01/09/2020	01/09/2025	PDM; FMA; SRL; HMGP
3.4 The City will consider channel modification (deepening or widening) to re-route water or increase flow capacity and reduce flooding.					
4	Structurally Engineered Project	City Engineer	01/09/2020	01/09/2025	PDM; FMA; HMGP; ST; CDBG; Other
3.5 The City will clear debris, fallen trees, excess sediment, and other obstructions from waterways to improve flow.					
5	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
3.6 The City will work with watershed or conservancy districts and other jurisdictions that share an interest in waterways to facilitate cleaning, maintaining, and eliminating problems.					
6	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
3.7 The City will utilize natural habitat creation and/or use of vegetative buffers inside waterways to slow the rapid flow of floodwater and/or hold excess storm water.					
7	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.8 The City will maintain and enforce floodplain, zoning, and building regulations to manage development in flood-prone areas.					
8	Prevention	Safety and Service Director	01/09/2020	01/09/2025	LOC
3.9 The City will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
9	Prevention	Safety and Service Director	01/09/2020	01/09/2025	LOC
3.10 The City will maintain, repair, upgrade, and/or replace storm sewers and related systems and increase culvert sizes and bridge spans, as necessary, to reduce flood risk.					
10	Structurally Engineered Projects	City Engineer	01/09/2020	01/09/2025	LOC; ST; CDBG; Other
3.11 The City will improve and repair roadways and berms damaged by rapid runoff and heavy precipitation.					
11	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
3.12 The City will work with railroads to identify a means to repair and improve railroad owned bridges, culverts, and abandoned tracks and keep them clear of debris and abandoned equipment.					
12	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	Other
3.13 The City will identify and implement methods to collect debris in runoff water before it clogs ditches, streams, culverts, and other waterways.					
13	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
3.14 The City will protect banks and land near waterways from deterioration due to rapid or excessive flow by planting stream bank vegetation, installing dormant woody stakes and posts, planting trees, shrubs and grasses along banks and berms, or using deflectors to prevent deterioration, or other similar methods to accomplish the same.					
14	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.15 The City will utilize biotechnical methods (placement of willow posts, hardwood tree plantings, fascines, brush layering, evergreen revetments, log revetments, tree kickers, lunger structures, or placed rocks as examples) to minimize the deterioration or destruction of stream banks due to excessive flow.					
15	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.16 The City will manage stream flow through channel, sedimentation, debris and obstruction, and stream ecology management practices.					
16	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.17 The City will utilize stream bank protection measures such as gabion revetments, riprap revetments, and crib walls, and other structural methods to protect the banks and berms.					
17	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
3.18 The City will require developers and/or construction crews in urban development zones to use tools such as chemical stabilization, compost blankets, geotextiles to control soil deterioration, mulching of new plantings, seeding and sodding of areas highly vulnerable to rapid surface runoff, installation of grass lined channels, slope diversion for surface runoff, and other methods to reduce the damages to land and property due to heavy and rapid surface runoff or drainage from rainfall or other precipitation or draining water.					
18	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; ICC
3.19 The City will protect soil quality by advocating for crop rotation, crop residue management, contour buffer strips, contour farming and strip-cropping, use of cover crops, installation of field borders, rotation grazing, pasture planting, establishment of grassy waterways, grade stabilization structures, water and sediment control basins, critical area planting, diversion, terracing, manure storage and runoff control, nutrient management, pest management, well abandonment, riparian buffers, wetland restoration, windbreaks, woodlot management, tree planting, and creation of upland wildlife habitat on farmland inside, adjacent to, or near incorporated city property.					
19	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other
3.20 The City will encourage management of surface runoff and chemical residue through techniques such as installation of grassy waterways, creation of infiltration basins and trenches, porous pavement installation, filtration techniques like use of catch basin inserts, sand and organic filters, rain gardens and vegetated filter strips.					
20	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; ICC; Other
<b>Goal 4 – Hazardous Materials Incident: Fostoria will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.</b>					
4.1 The City will ensure signage on highways and roadways is clear and easy to follow to decrease the likelihood of vehicle accidents due to unsure routes of travel.					
28	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other
4.2 The City will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
29	Property Protection	Fire Chief	01/09/2020	01/09/2025	LOC; ST; Other
4.3 The City will collaborate with entities that bring new hazardous substances to communities through development of first responder training.					
30	Property Protection	Fire Chief	01/09/2020	01/09/2025	LOC; Other
<b>Goal 5 Infrastructure Failure: Fostoria will repair, replace, and improve infrastructure to lessen its vulnerability to disaster damages and to provide resilient service to city residents, businesses and stakeholders.</b>					
5.1 The City will identify damage and deterioration to city-owned dams, reservoirs, and lagoons and will make improvements to strengthen, harden, and protect the structures from storm, water, or other damage.					
21	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC, ST, PDM, HMGP, Other
5.2 The city will repair, replace, or build streets, sidewalks, alleys, berms, and other structures that lessen flooding during storms and heavy runoff, and that facilitate constant access to transportation routes within the city.					

Priority	Action Type	Lead	Start Date	End Date	Funding
22	Structurally Engineered Project	Safety and Service Director	01/09/2020	01/09/2025	LOC, ST, PDM, HMGP, Other
5.3 The City will repair, replace, and refurbish storm sewers, storm basins, pumps, treatment facilities and other structures within the stormwater system to more adequately handle runoff during heavy precipitation and to prevent flooding due to back up of drainage as well as soil seepage into the water distribution system.					
23	Structurally Engineered Project	Safety and Service Director	01/09/2020	01/09/2025	LOC, ST, PDM, HMGP, Other
5.4 The City will separate the sanitary and storm sewers over the entire city to improve quality of the water within the distribution system and to improve the capacity to manage storm water.					
24	Structurally Engineered Project	Safety and Service Director	01/09/2020	01/09/2025	LOC, ST, PDM, HMGP, Other
5.5 The City will replace, refurbish and repair communications towers, alternate power supplies, and communications equipment to improve the quality of telecommunications service and to ensure that residents can communicate with emergency services even when there is no power.					
25	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC, ST, Other
<b>Goal 6 – Invasive Species: Fostoria will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					
6.1 The City will maintain trees and vegetation on public/jurisdiction property and advocate for the same on private property.					
38	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other
6.2 The City will work to clear public and private areas of dead or diseased trees that will easily be damaged by wind events and cause destruction of other property.					
39	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other
<b>Goal 7 – Land Subsidence: Fostoria will reduce the risk of property damage due to land subsidence in at-risk areas.</b>					
7.1 The City will support and conduct programs that reduce erosion and sedimentation along riverbanks, ditch banks, road berms, and areas that wash away after heavy or prolonged precipitation.					
40	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; ST; Other
7.2 The City will advocate for, support, and implement slope protection actions along waterways and other vulnerable areas where natural causes endanger property, structures, or other vulnerabilities exist.					
41	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other
<b>Goal 8 – Severe Thunderstorm, Tornado, and Windstorm: Fostoria will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					
8.1 The City will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and mass gathering facilities.					
26	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; PDM

Priority	Action Type	Lead	Start Date	End Date	Funding
8.2 The City will repair or retrofit public properties with wind-resistant materials (i.e. metal roofing, siding, etc.) to decrease damage due to wind.					
27	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
8.3 The City will develop agreements for emergency shelters to be used for a variety of disaster-related purposes during severe storms and/or evacuations.					
28	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC
8.4 The City will research and identify resources for affordable debris disposal after storms, possibly through creation of special funding to pay for landfill fees or finding facilities that will receive debris for reduced rates.					
29	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
8.5 The City will establish, maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
30	Public Information	Safety and Service Director	01/09/2020	01/09/2025	LOC; ST; Other
8.6 The City will maintain building regulations and land-use planning practices that encourage responsible development in high-risk areas.					
31	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; ICC
8.7 The City will work to develop a local, affordable and functional county-wide public safety communication system with the capability for multi-discipline and multi-jurisdictional communication.					
32	Public Safety	Fire Chief	01/09/2020	01/09/2025	LOC; Other
8.8 The City will work to fill gaps in warning and notification systems by adding outdoor warning sirens, developing reverse 911 capabilities, and by enhancing public notification processes.					
33	Public Information	Fire Chief	01/09/2020	01/09/2025	LOC; ST; Other
8.9 The City will advocate and support the hardening of utilities (distribution lines, generating plants, and other system components).					
34	Property Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; ICC; Other
8.10 The City will identify alternate/back-up utility resources for use when primary source is compromised (generators, redundant suppliers, etc.).					
35	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
<b>Goal 9 – Water Quality: Fostoria will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
9.1 The City will advocate for replacement, upgrades, and improvements to city water treatment plants, distribution systems, reservoirs, and other equipment including enhanced testing, monitoring and treatment capabilities.					
31	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other
9.2 The City will improve, repair, and replace water lines, hydrants, and other components to enhance firefighting services when a robust, plentiful, pressurized water supply is critical to saving lives and property.					
32	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
9.3 The City will work for early and pro-active collaboration between jurisdictions regarding spills or leaks into the water supply through seepage into wells, aquifers, from reservoirs or other waterways that will eventually affect local water quality.					
33	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other
<b>Goal 10 – Winter Storms: Fostoria will lessen damages suffered from severe winter storms and blizzards.</b>					
10.1 The City will work to plow and clear city-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
34	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
10.2 The City will develop collaborative efforts with environmental and water quality advocates to more accurately determine risk to groundwater resources in the county and work together to adequately and effectively prevent contamination of the groundwater through snow removal and salting of icy roads.					
35	Natural Resource Protection	Safety and Service Director	01/09/2020	01/09/2025	LOC; Other

### 3.3.6 New Riegel

The mitigation strategies for New Riegel will be monitored by the Mayor, who will coordinate with village council and other community residents to identify mitigation opportunities. Most of mitigation actions will be locally funded; state and federal grants will be sought to help fund these efforts when available.

**Table 3-7: New Riegel Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: New Riegel will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The Village will establish water conservation procedures for implementation in extreme drought conditions.					
13	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 2 - Earthquake: New Riegel will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The Village will identify the structures and infrastructure that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
15	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 3 – Flood: New Riegel will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					
3.1 The Village will acquire, demolish, and/or retrofit flood-prone structures.					
5	Prevention	Mayor	01/09/2020	01/09/2025	PDM; HMGP
3.2 The Village will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
3	Prevention	Mayor	01/09/2020	01/09/2025	LOC
3.3 The Village will improve and repair streets, sidewalks and berms damaged by rapid runoff and heavy precipitation.					
4	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 4 – Hazardous Materials Incident: New Riegel will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.</b>					
4.1 The Village will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
1	Public Safety	Mayor	01/09/2020	01/09/2025	LOC; ST; Other
4.2 The Village will collaborate with entities that bring new hazardous substances to communities through construction of additional highways, railroads, or pipelines for first responder training.					
2	Public Safety	Mayor	01/09/2020	01/09/2025	Other
<b>Goal 5 - Infrastructure Failure: New Riegel will identify potential infrastructure failure and initiate action to restore and repair it prior to failure.</b>					
5.1 The Village will monitor streets, culverts and sidewalks, power systems, water treatment and distribution systems, communication equipment, and utilities for signs of wear and tear or imminent failure, and will take immediate action to facilitate the upgrade and restoration of infrastructure.					
6	Property Protection	Mayor	09/09/2020	01/09/2025	LOC: PDM
<b>Goal 6 – Invasive Species: New Riegel will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					

Priority	Action Type	Lead	Start Date	End Date	Funding
6.1 The Village will work to clear public and private areas of dead or diseased trees that will easily be damaged by wind events and cause destruction of other property.					
14	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 7 – Severe Thunderstorm, Tornado, and Windstorm: New Riegel will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					
7.1 The Village will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and mass gathering facilities.					
7	Property Protection	Mayor	01/09/2020	01/09/2025	PDM; LOC; HMGP
7.2 The Village will develop agreements for emergency shelters to be used for a variety of disaster-related purposes during severe storms and/or evacuations.					
8	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
7.3 The Village will establish, maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
10	Public Information	Mayor	01/09/2020	01/09/2025	LOC; ST
7.4 The Village will identify alternate/back-up utility resources for use when primary source is compromised (generators, redundant suppliers, etc.).					
9	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; PDM; HMGP
<b>Goal 8 – Water Quality: New Riegel will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
8.1 The Village will advocate for improvements to water treatment plants, including enhanced testing and monitoring and improved treatment capabilities.					
12	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 9 – Winter Storms: New Riegel will lessen damages suffered from severe winter storms and blizzards.</b>					
9.1 The Village will work to plow and clear village-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
11	Property Protection	Mayor	01/09/2020	01/09/2025	LOC

### 3.3.7 Republic

The mitigation strategies for Republic will be monitored by the Mayor, who will coordinate with village council and other community stakeholders to identify mitigation opportunities. Most of mitigation actions will be locally funded; state and federal grants will be sought to help fund these efforts when available.

**Table 3-8: Republic Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: Republic will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The Village will advocate and support the hardening of water supply infrastructure to include alternate sources of water and protection of treatment plants and distribution systems.					
28	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 2 - Earthquake: Republic will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The Village will identify the structures and infrastructure that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
31	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 3 – Flood: Republic will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					
3.1 The Village will acquire, demolish, and/or retrofit flood-prone structures.					
7	Prevention	Mayor	01/09/2020	01/09/2025	PDM; HMGP
3.2 The Village will utilize wetland and natural habitat creation and/or use of vegetative buffers inside waterways to temporarily hold excess storm water.					
6	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC; Other
3.3 The Village will maintain and enforce floodplain, zoning, and building regulations to manage development in flood-prone areas.					
2	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
3.4 The Village will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
1	Prevention	Mayor	01/09/2020	01/09/2025	LOC
3.5 The Village will maintain, repair, upgrade, and/or replace storm sewers and related systems and increase culvert sizes and bridge spans to reduce flooding and improve drainage.					
3	Structurally Engineered Project	Mayor	01/09/2020	01/09/2025	LOC; CDBG; Other
3.6 The Village will improve and repair roadways and berms damaged by rapid runoff and heavy precipitation.					
4	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
3.7 The Village will protect banks and land near waterways from deterioration due to rapid or excessive flow by planting stream bank vegetation, installing dormant woody stakes and posts, planting trees, shrubs and grasses along banks and berms, or using deflectors to prevent deterioration, or other similar methods to accomplish the same.					
5	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
3.8 The Village will utilize biotechnical methods (placement of willow posts, hardwood tree plantings, fascines, brush layering, evergreen revetments, log revetments, tree kickers, lunker structures, or placed rocks as examples) to minimize the deterioration or destruction of stream banks due to excessive flow.					
8	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC; Other
3.9 The Village will utilize stream bank protection measures such as gabion revetments, riprap revetments, and crib walls, and other structural methods to protect the banks and berms.					
9	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC; Other
<b>Goal 4 – Hazardous Materials Incident: Republic will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.</b>					
4.1 The Village will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
10	Public Safety	Mayor	01/09/2020	01/09/2025	LOC; ST; Other
<b>Goal 5 Infrastructure Failure: Republic will protect infrastructure to prevent deterioration of streets, sidewalks, and berms; water treatment and distribution systems; utilities; and communications capital equipment.</b>					
5.1 The Village will repair, replace, and install storm and sanitary sewer components including adding alternate power supplies, pumps, distribution and collection lines, and other equipment or structures necessary for proper function of these systems.					
19	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP
5.2 The Village will work to repair, restore and replace streets, berms, sidewalks, and underground storm tiles to facilitate rapid and effective drainage after heavy precipitation and to prevent flash flooding.					
20	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP: CDBG; Other
5.3 The Village will increase the capacity of storm sewers and gravitational drainage to manage runoff from elevated highways that pass through the village, and to prevent dumping this runoff onto private property.					
21	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP: LOC
5.4 The Village will identify infrastructure improvements that will prevent widespread basement flooding after heavy precipitation, and will act to divert this runoff into new or existing storm sewers or waterways.					
22	Property Protection	Mayor	01/09/2020	01/09/2025	PDM: HMGP: LOC
<b>Goal 6 – Invasive Species: Republic will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					
6.1 The Village will maintain trees and vegetation on public/jurisdiction property and advocate for the same on private property.					
26	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; Other
6.2 The Village will work to clear public and private areas of dead or diseased trees that will easily be damaged by wind events and cause destruction of other property.					
27	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 7 – Land Subsidence: Republic will reduce the risk of property damage due to land subsidence in at-risk areas.</b>					

Priority	Action Type	Lead	Start Date	End Date	Funding
7.1 The Village will advocate for, support, and implement slope protection actions along waterways and other vulnerable areas where natural causes endanger property, structures, or other vulnerabilities exist.					
23	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC; Other; PDM
7.2 The Village will encourage the development of more specific and accurate mapping of karst areas in Seneca County that interfaces the geologic characteristics with the soil types, as well as identifying abandoned and functioning wells and mines of various types, to more accurately identify karst locations and predict where sink holes or other structural problems are likely to occur.					
24	Prevention	Mayor	01/09/2020	01/09/2025	LOC
<b>Goal 8 – Severe Thunderstorm, Tornado, and Windstorm: Republic will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					
8.1 The Village will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and mass gathering facilities.					
11	Property Protection	Mayor	01/09/2020	01/09/2025	PDM; LOC; HMGP
8.2 The Village will repair or retrofit public properties with wind-resistant materials (i.e. metal roofing, siding, etc.) to decrease damage due to wind.					
18	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; Other
8.3 The Village will develop agreements for emergency shelters to be used for a variety of disaster-related purposes during severe storms and/or evacuations.					
12	Property Protection	Mayor	01/09/2020	01/09/2025	LOC
8.4 The Village will research and identify resources for affordable debris disposal after storms, possibly through creation of special funding to pay for landfill fees or finding facilities that will receive debris for reduced rates.					
13	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; ICC; Other
8.5 The Village will establish, maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
15	Public Information	Fire Chief	01/09/2020	01/09/2025	LOC; ST
8.6 The Village will provide community education about protective actions, evacuation procedures, and other disaster preparedness information.					
17	Public Information	Mayor	01/09/2020	01/09/2025	LOC
8.7 The Village will work to fill gaps in warning and notification systems by adding outdoor warning sirens, developing reverse 911 capabilities, and by enhancing public notification processes.					
14	Public Information	Fire Chief	01/09/2020	01/09/2025	LOC; ST
8.8 The Village will identify alternate/back-up utility resources for use when primary source is compromised (generators, redundant suppliers, etc.).					
16	Property Protection	Mayor	01/09/2020	01/09/2025	LOC; PDM; HMGP
<b>Goal 9 – Water Quality: Republic will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
9.1 The Village will advocate for improvements to their water treatment plant, including enhanced testing and monitoring and improved treatment capabilities.					
29	Natural Resource Protection	Mayor	01/09/2020	01/09/2025	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
9.2 The Village will work for early and pro-active collaboration between jurisdictions regarding spills or leaks into the water supply through seepage into wells, aquifers, reservoirs or waterways that will eventually affect local water quality.					
30	Property Protection	Fire Chief	01/09/2020	01/09/2025	LOC
<b>Goal 10 – Winter Storms: Republic will lessen damages suffered from severe winter storms and blizzards.</b>					
10.1 The Village will work to plow and clear village-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
25	Property Protection	Mayor	01/09/2020	01/09/2025	LOC

### 3.3.8 Tiffin

In Tiffin, the City Administrator will monitor progress on mitigation strategies and coordinate with other community officials to identify mitigation opportunities. The majority of mitigation actions will be funded through local budgets. When possible, state and federal grants will be sought to help fund these efforts. During the planning process county and city officials discussed the possibility of mitigation strategies being implemented by various entities other than the city, including private property owners such as non-profit organizations, institutions of higher learning, school districts, or other special interest districts. This could be especially relevant in mitigating damages to multi-family structures, institutional buildings, and other non-government owned critical facilities. These parties were involved in discussion during the planning process, and could be the most likely administrators of a project at the time of implementation.

**Table 3-9: Tiffin Mitigation Strategies**

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 1 – Drought/Extreme Heat: Tiffin will assess the reliability of water supplies during drought and extreme heat.</b>					
1.1 The City will advocate and support the hardening of water supply infrastructure to include alternate sources of water and protection of treatment plants and distribution systems.					
48	Natural Resources Protection	City Administrator	01/09/2020	01/09/2025	LOC; CDBG
<b>Goal 2 - Earthquake: Tiffin will assess damage potential from earthquakes and establish a safety plan for residents.</b>					
2.1 The City will identify the structures and infrastructure in the city that would likely be damaged or destroyed in an earthquake of moderate to severe magnitude.					
45	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
<b>Goal 3 – Flood: Tiffin will work to reduce flooding and limit loss of life or injury and property damage caused by flooding.</b>					
3.1 The City will require construction of water control structures (reservoirs, retention/detention ponds, dams, levees, dikes, floodwalls, etc.) to prevent flooding of properties.					
23	Structurally Engineered Projects	City Engineer	01/09/2020	01/09/2025	LOC; PDM; HMGP; FMA; CDBG; Other
3.2 The City will elevate structures and infrastructure (buildings, roadways, bridges, culverts etc.) to remove property from areas that flood where elevation is feasible and affordable.					
24	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; PDM; HMGP; FMA; CDBG; Other
3.3 The City will acquire, demolish, and/or retrofit flood-prone structures.					
11	Prevention	City Engineer	01/09/2020	01/09/2025	PDM; FMA; SRL; HMGP
3.4 The City will consider channel modification (deepening or widening) to re-route water or increase flow capacity and reduce flooding.					
12	Structurally Engineered Project	City Engineer	01/09/2020	01/09/2025	PDM; FMA; HMGP; ST; CDBG; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
3.5 The City will clear debris, fallen trees, logs, excess sediment, ice, and other obstructions from waterways, bridges, and viaducts to improve flow, and will encourage private property owners to do same, especially in high-vulnerability areas like railroad viaducts.					
7	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
3.6 The City will work with watershed or conservancy districts and other jurisdictions that share an interest in waterways to facilitate cleaning, maintaining, and eliminating problems.					
14	Natural Resource Protection	City Administrator	01/09/2020	01/09/2025	LOC
3.7 The City will utilize natural habitat creation and/or use of vegetative buffers inside waterways to slow the rapid flow of floodwater from upstream areas and/or hold excess storm water until it can drain downstream.					
22	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.8 The City will maintain and strictly enforce floodplain, zoning, and building regulations to manage development in flood-prone areas, and will work to improve and modify codes and regulations when improvements to floodwater management can be the result.					
5	Prevention	City Administrator	01/09/2020	01/09/2025	LOC
3.9 The City will maintain participation in NFIP and engage in floodplain management activities to support flood prevention.					
6	Prevention	City Administrator	01/09/2020	01/09/2025	LOC
3.10 The City will maintain, repair, upgrade, and/or replace storm sewers and related systems and increase culvert sizes and bridge spans, as necessary, to reduce flood risk.					
8	Structurally Engineered Projects	City Engineer	01/09/2020	01/09/2025	LOC; ST; CDBG; Other
3.11 The City will improve and repair roadways and berms damaged by rapid runoff and heavy precipitation.					
13	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
3.12 The City will work with railroads to identify a means to repair and improve railroad owned bridges, culverts, and abandoned tracks and keep them clear of debris and abandoned equipment so water can flow unobstructed during periods of heavy runoff.					
9	Property Protection	City Administrator	01/09/2020	01/09/2025	Other
3.13 The City will identify and implement methods to collect debris in runoff water before it clogs ditches, streams, culverts, and other waterways.					
10	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
3.14 The City will protect banks and land near waterways from deterioration due to rapid or excessive flow by planting stream bank vegetation, installing dormant woody stakes and posts, planting trees, shrubs and grasses along banks and berms, or using deflectors to prevent deterioration, or other similar methods to accomplish the same.					
15	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.15 The City will utilize biotechnical methods (placement of willow posts, hardwood tree plantings, fascines, brush layering, evergreen revetments, log revetments, tree kickers, lunger structures, or placed rocks as examples) to minimize the deterioration or destruction of stream banks due to excessive flow.					
16	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
3.16 The City will manage stream flow through channel, sedimentation, debris and obstruction, and stream ecology management practices, and will work with the river conservancy to do the same for the Sandusky River.					
17	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.17 The City will utilize stream bank protection measures such as gabion revetments, riprap revetments, and crib walls, and other structural methods to protect the banks and berms.					
18	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
3.18 The City will require developers and/or construction crews in urban development zones to use tools such as chemical stabilization, compost blankets, geotextiles to control soil deterioration, mulching of new plantings, seeding and sodding of areas highly vulnerable to rapid surface runoff, installation of grass lined channels, slope diversion for surface runoff, and other methods to reduce the damages to land and property due to heavy and rapid surface runoff or drainage from rainfall or other precipitation or draining water.					
21	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC; ICC
3.19 The City will encourage upstream management of surface runoff and chemical residue through techniques such as installation of grassy waterways, creation of infiltration basins and trenches, porous pavement installation, filtration techniques like use of catch basin inserts, sand and organic filters, rain gardens and vegetated filter strips.					
19	Natural Resource Protection	City Engineer	01/09/2020	01/09/2025	LOC; ICC; Other
3.20 The city will encourage property owners to retrofit and modify their property to reduce flooding into living areas through means such as waterproofing, perimeter tiling, and other means to keep water from seeping and draining into basements and lower levels.					
20	Property Protection	City Administrator	01/09/020	01/09/2025	Other
<b>Goal 4 – Hazardous Materials Incident: Tiffin will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.</b>					
4.1 The City will ensure signage on highways and roadways is clear and easy to follow to decrease the likelihood of vehicle accidents due to unsure routes of travel.					
39	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC; Other
4.2 The City will advocate for funding for and conduct of additional first responder training to prepare responders for highway hazardous materials incidents and pipeline and rail incidents.					
37	Property Protection	Fire Chief	01/09/2020	01/09/2025	LOC; ST; Other
4.3 The City will collaborate with railroads as hazardous chemicals are hauled through the city, past schools and colleges and through residential neighborhoods to improve disclosure of train contents, increase training of first responders, and to improve safety of train operation through reduced speed limits and enhanced train safety programs.					
35	Property Protection	Fire Chief	01/09/2020	01/09/2025	LOC; Other
4.4 The City will work with educational institutions to improve chemical safety in labs and classrooms through better marking, tracking, and disposal of chemicals and hazardous materials.					
36	Prevention	Fire Chief	01/09/2020	01/09/2025	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
4.5 The City will work with agricultural chemical applicators, both individual farmers and commercial applicators, to improve hauling and application process safety as it relates to city residents and businesses, to prevent incidental to catastrophic spills, crashes, and leaks during the transportation or application process.					
38	Property Protection	Fire Chief	01/09/2020	01/09/2025	LOC
<b>Goal 5 Infrastructure: Tiffin will work to improve the condition and function of city infrastructure to improve disaster resiliency and sustainability.</b>					
5.1 The City will separate all storm and sanitary sewers to decrease the infiltration of the water supply and to improve the adequacy of both systems.					
1	Property Protection	City Administrator	01/09/2020	01/09/2025	CDBG; Other; LOC
5.2 The City will repair, replace, and add storm sewers, wastewater and stormwater treatment capacity, improve backflow prevention, and match need to capability through improvements to sanitary and storm sewer systems.					
2	Property Protection	City Administrator	01/09/2020	01/09/2025	CDBG: PDM: Other: LOC
5.3 The City will improve power reliability through work with providers to make distribution systems more disaster-resistant, and to replace and repair current equipment with more resistant and resilient components as repairs and replacements are completed.					
4	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC: Other
5.4 The City will repair, refurbish, and/or strengthen two dams in the city to lessen overtopping potential and the chance that a dam failure would disburse broken concrete segments of the dam into private and public property, causing excessive damage to homes and other buildings.					
3	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC: PDM: CDBG; Other
<b>Goal 6 – Invasive Species: Tiffin will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms.</b>					
6.1 The City will maintain trees and vegetation on public/jurisdiction property and advocate for the same on private property.					
49	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC; Other
6.2 The City will work to clear public and private areas of dead or diseased trees that will easily be damaged by wind events and cause destruction of other property.					
50	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC; Other
<b>Goal 7 – Land Subsidence: Tiffin will reduce the risk of property damage due to land subsidence in at-risk areas.</b>					
7.1 The City will support and conduct programs that reduce erosion and sedimentation along riverbanks, ditch banks, road berms, and areas that wash away after heavy or prolonged precipitation.					
40	Natural Resource Protection	City Administrator	01/09/2020	01/09/2025	LOC; ST; Other
7.2 The City will advocate for, support, and implement slope protection actions along waterways and other vulnerable areas where natural causes endanger property, structures, or other vulnerabilities exist.					
41	Natural Resource Protection	City Administrator	01/09/2020	01/09/2025	LOC; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
<b>Goal 8 – Severe Thunderstorm, Tornado, and Windstorm: Tiffin will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.</b>					
8.1 The City will advocate and support the construction of safe rooms for single- and multi-family homes and congregate facilities, including mobile home parks, apartment complexes, and mass gathering facilities.					
26	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC; PDM
8.2 The City will repair or retrofit public properties with wind-resistant materials (i.e. metal roofing, siding, etc.) to decrease damage due to wind.					
29	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
8.3 The City will develop agreements for emergency shelters to be used for a variety of disaster-related purposes during severe storms and/or evacuations.					
25	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC
8.4 The City will research and identify resources for affordable debris disposal after storms, possibly through creation of special funding to pay for landfill fees or finding facilities that will receive debris for reduced rates.					
30	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
8.5 The City will establish, maintain, improve, and/or promote public warning and notification systems (reverse 911, opt-in systems, outdoor warning sirens, etc.).					
32	Public Information	City Administrator	01/09/2020	01/09/2025	LOC; ST; Other
8.6 The City will maintain building regulations and land-use planning practices that encourage responsible development in high-risk areas.					
31	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC; ICC
8.7 The City will work to develop a local, affordable and functional county-wide public safety communication system with the capability for multi-discipline and multi-jurisdictional communication.					
33	Public Safety	Fire Chief	01/09/2020	01/09/2025	LOC; Other
8.8 The City will work to fill gaps in warning and notification systems by adding outdoor warning sirens, developing reverse 911 capabilities, and by enhancing public notification processes.					
34	Public Information	Fire Chief	01/09/2020	01/09/2025	LOC; ST; Other
8.9 The City will advocate and support the hardening of utilities (distribution lines, generating plants, and other system components).					
27	Property Protection	City Administrator	01/09/2020	01/09/2025	LOC; ICC; Other
8.10 The City will identify alternate/back-up utility resources for use when primary source is compromised (generators, redundant suppliers, etc.).					
28	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
<b>Goal 9 – Water Quality: Tiffin will work to improve the safety of the water supply whether it is sourced from private wells or public or privately-owned water treatment systems.</b>					
9.1 The City will advocate for improvements to water treatment plants, including enhanced security and protection, protection of wells and reservoirs, enhanced water testing and monitoring capacity, and improved treatment capabilities.					
42	Natural Resource Protection	City Administrator	01/09/2020	01/09/2025	LOC; Other

Priority	Action Type	Lead	Start Date	End Date	Funding
9.2 The City will advocate for reduced runoff from upstream properties to reduce the harmful chemical residue in the water, and to reduce contamination of raw water for the city's treatment plant.					
43	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC; Other
9.3 The City will work for early and pro-active collaboration between jurisdictions regarding spills or leaks into the water supply through seepage into wells, aquifers, reservoirs or waterways that will eventually affect local water quality.					
44	Natural Resource Protection	City Administrator	01/09/2020	01/09/2025	LOC; Other
<b>Goal 10 – Winter Storms: Tiffin will lessen damages suffered from severe winter storms and blizzards.</b>					
10.1 The City will work to plow and clear city-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
46	Property Protection	City Engineer	01/09/2020	01/09/2025	LOC
10.2 The City will develop collaborative efforts with environmental and water quality advocates to more accurately determine risk to groundwater resources in the county and work together to adequately and effectively prevent contamination of the groundwater through snow removal and salting of icy roads.					
47	Natural Resource Protection	City Administrator	01/09/2020	01/09/2025	LOC; Other

### **3.4 IMPLEMENTATION**

The identified mitigation strategies are general actions that could be taken to reduce the negative impact of disasters and large-scale emergencies. For a strategy to become an actionable item, it must be converted to a specific project with funding, action steps, timelines, and project goals. For example, a project to acquire and demolish a repetitive loss property must begin with identification of the specific property to be acquired and funding for the project. The property owner must agree to accept the buy-out and use the money to purchase another home. The jurisdiction must accept its share of cost, planning responsibility, and project management roles. Only then can the actual project be executed. A similar process must be followed for any of the strategies identified here to become projects.

The Seneca County EMA will monitor the implementation of these strategies through ongoing communication with jurisdiction officials and stakeholders. When mitigation grants or other funding sources become available, reasonable efforts will be made to secure funding. For strategies that must be funded through local budgets, jurisdictions will work diligently to identify local funding sources that can be used to address disaster vulnerability. When funding is secured, a detailed project timeline will be developed and action steps taken to complete the project. Upon completion, the jurisdiction will evaluate project effectiveness and share that information with the EMA and planning team for consideration in developing future projects.

There may be instances when a potential mitigation project would be most efficiently initiated, managed, and administered by a property owner, special district, or a nonprofit organization. Examples might include a non-profit property owner or a property owners' association, an institution of higher learning, school district, utility district, or a service district. In such cases, the jurisdiction having authority might delegate grant application and administration directly to that entity in the interest of efficiency and effectiveness. They may delegate various rights and responsibilities to that entity, including, but not limited to, project oversight, vendor procurement, and construction. This delegation might be done in consideration of staffing and oversight capabilities, timeliness of work performance, or logistics. The authority having jurisdiction (county, city, or village) will require that all building codes, floodplain regulations, and other development and land use regulations be followed and will verify that compliance was enforced. Non-governmental and external entities performing this work will be required to comply with all rules, procedures, and grant terms and conditions. All permits will be reviewed and issued by the appropriate local authority and all inspections and final occupancy approvals will be given by the designated local or state. This delegation will be done in a way that does not compromise or reduce the collaborative efforts of mitigation planning, land use planning, or development regulations in Seneca County.

The collaboration between stakeholders used to develop these strategies was the most valuable part of the mitigation planning process for Seneca County. Developing this plan required stakeholders to evaluate hazards and risks in their community through extensive collaboration and conversation. They were required to examine the local community, predict where and under what conditions damages would occur, and identify opportunities to reduce or eliminate those potential damages. The solutions, currently in the form of mitigation goals

and actions that will ultimately develop into projects, had to be developed to maximize benefit to the community while minimizing cost. This process required whole community involvement so that all sectors of the community were represented in the planning process.

Seneca County ultimately developed comprehensive, relevant, and effective solutions to their unique risks and vulnerabilities. Given the availability of funding, personnel, and support, Seneca County and its jurisdictions are positioned to move forward and implement these strategies and accomplish their goal of making the county more disaster resilient.