

3.0 MITIGATION STRATEGIES

As Huron County's hazard mitigation planning developed mitigation goals and strategies, their intention was to address the county's identified risks and vulnerabilities and those for each specific jurisdiction. As a result, the mitigation strategies in this plan are significantly more detailed and comprehensive than those developed in the previous plan. While some jurisdictions identified similar goals and strategies, stakeholders from each community expressed their unique circumstances and developed strategies to address those specific issues. The result is a set of comprehensive and customized mitigation goals and strategies that address hazard mitigation across Huron County.

3.1 STATUS OF PAST MITIGATION EFFORTS

The 2011 Huron County Multi-Jurisdictional Hazard Mitigation Plan identified mitigation goals and activities on a countywide basis. As part of the planning process, the planning team reviewed these 2011 goals and objectives to determine their current status. While progress was made on several strategies, there were no formal mitigation plan review meetings to document that progress. Because most strategies are still relevant to Huron County, many have been revised and re-written for the 2019 plan. Table 3-1 provides a status report on the 2011 goals and objectives.

Table 3-1: Status of 2011 Huron County Mitigation Goals

Mitigation Actions	Status
Goal 1: To minimize the losses of life and property due to flooding in Huron County.	
Objective 1.1: To minimize the impact of flooding to life and property to include buildings, infrastructure, and critical infrastructure.	
Action 1.1.1: Identify structure inventory for properties at-risk to flood (specifically properties located in the special flood hazard area/1% annual change area).	No action taken. Revise and Continue
Action 1.1.2: Elevate the height of Daniels Road for a distance of 1.325 feet that is subject to flooding (Norwich Township).	Updated to reflect elevation needs across county. Revise
Action 1.1.3: Acquire, retrofit, elevate, or relocate flood prone structures throughout Huron County.	Opportunities not identified since 2011 but need still exists. No action taken. Continue
Action 1.1.4: Acquire structures in identified repetitive loss areas throughout Huron County.	Opportunities not identified since 2011 but need still exists. No action taken. Revise and Continue

Mitigation Actions	Status
Action 1.1.5: Update existing flood damage prevention and ordinances (as it relates to 44 CFR 60.3).	Updated to reflect enforcement, maintenance, and revision to all regulations. Revise and Continue
Action 1.1.6: Ensure that NFIP requirements are being met concerning repairs, renovations, and remodeling of structures located in the regulatory floodplain.	Updated to reflect compliance with NFIP regulations across county. Revise and Continue
Action 1.1.7: Notify owners in writing of flood prone properties and recommend the need for flood insurance.	Updated to include flood insurance promotion in EMA’s public awareness campaign. Revise
Action 1.1.8: Evaluate the feasibility of upstream surface flood storage for flood prone structures that cannot be mitigated by conventional techniques.	Updated to address broad options for structurally engineered flood control measures. Revise
Action 1.1.9: Improve storm sewer infrastructure throughout the Village of Wakeman.	Updated to reflect all infrastructure improvement needs in jurisdictions. Revise and Continue
Action 1.1.10: Remove woody debris from Vermillion River (1) south of Fitchville (2) South Norwalk Road.	Updated to reflect debris removal needs throughout county. Revise and Continue
Action 1.1.11: Elevate South Norwalk Road.	Updated to reflect elevation opportunities across county. Revise
Action 1.1.12: Acquisition of flood prone structures along Elm Street (City of Norwalk).	Updated to reflect acquisition opportunities across all jurisdictions. Revise
Action 1.1.13: Develop new storm water regulations.	Updated to reflect enforcement, maintenance, and revision to development all regulations. Revise
Goal 2: To minimize the losses of life and property due to high wind events in Huron County.	
Objective 2.1: Increase the sustainability to the effects of high winds from tornadoes on public and private property in Huron County.	

Mitigation Actions	Status
Action 2.1.1: Continue to support and manage the tornado safety public awareness campaign in Huron County.	Countywide mass notification system implemented in 2015. Social media accounts established and utilized to promote warning and notification info. Continue
Action 2.1.1: Identify a location and construct a community saferoom within the Village of Wakeman.	Updated to reflect broad options for storm shelters and saferooms. Revise
Action 2.1.3: Identify a location and construct a community saferoom within the Village of New London.	Updated to reflect broad options for storm shelters and saferooms. Revise
Objective 2.2: Continue to promote public awareness to the dangers of high wind events.	
Action 2.2.1: Promote enhanced anchoring of manufactured homes.	Determined to be not feasible. Delete
Action 2.2.2: Public education and outreach concerning the dangers of high winds.	Revised to address public education Continue
Goal 3: To minimize the losses of life and property due to severe summer storms in Huron County.	
Objective 3.1: To minimize the effects of electrical storms to public and private property in Huron County.	
Action 3.1.1: Install uninterruptible power supplies on critical electronic equipment in county and municipal facilities.	Generators installed at Sheriff's Office, EMA, and Health Department. Additional generator needs still exist. Continue
Action 3.1.2: Equip all county and public gathering places with lightning detectors.	Weather stations (7) installed throughout county. County re-certified as Storm Ready in 2018. Complete
Action 3.1.3: Install surge protectors on electronic equipment in county and municipal facilities.	Completed in all county buildings by end of 2018. Complete
Objective 3.2: To minimize the effects of high winds to public and private property in Huron County.	
Action 3.2.1: Promote the use of special roofing shingles designed to interlock and resist uplift forces for both new construction and retrofits.	Updated to encompass all wind-resistant building materials. Revise
Goal 4: To minimize the losses of life and property due to severe winter storms in Huron County.	

Mitigation Actions	Status
Objective 4.1: To minimize the impact of severe winter storms to life and property to include buildings, infrastructure, critical facilities and critical infrastructure.	
Action 4.1.1: Support tree trimming to prevent limb breakage and for safeguarding nearby utility lines during severe winter storm events.	Tree trimming is ongoing in all jurisdictions as part of regular operations. Continue
Action 4.1.2: Purchase the equipment necessary to efficiently remove snow and ice from county roads during severe winter weather.	Determined to be an internal issue for all jurisdictions. Delete
Action 4.1.3: Purchase generators to serve as backup power for heating and cooling centers.	Some generators have been acquired or upgrade but still a need throughout county. Continue
Goal 5: To minimize the losses of life and property due to drought in Huron County.	
Objective 5.1: To educate the citizens of Huron County on methods to reduce the effects of drought.	
Action 5.1.1: Continue to promote the public awareness campaign to promote water saving techniques (such as low flow water saving showerheads and toilets).	EMA will continue public awareness campaign for all hazards. Continue
Objective 5.2: To protect the people and property from the devastating effects of wildfire due to drought conditions.	
Action 5.2.1: Develop a public awareness campaign to heighten awareness about brush fires and preventative maintenance for homeowners.	Determined to be unnecessary due to low wildfire risk. Deleted
Goal 6: To minimize the losses of life and property due to earthquake in Huron County.	
Objective 6.1: To minimize the effects of seismic activity to life and property to include buildings, infrastructure, and critical facilities and critical infrastructure in Huron County.	
Action 6.1.1: Promote equipment fastening in county and municipal facilities.	Determined to be unnecessary due to low earthquake risk. Delete
Goal 7: To minimize the losses of life and property due to temperature extremes in Huron County.	
Objective 7.1: To minimize the effects of temperature extremes to life, public and private property in Huron County.	
Action 7.1.1: Promote public education and outreach about the effects of extreme heat and cold and how to mitigate those effects.	EMA will continue public awareness campaign for all hazards. Continue

3.2 RISK PRIORITIES

The Hazard Identification and Risk Assessment provides a detailed explanation of the hazards and risks in Huron County. This is expressed through a discussion of the frequency and severity of past hazards and potential damages from future incidents. Building on that hazard information, this section of the plan 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 that jurisdiction's 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.

Using this methodology, the strategies were prioritized as they were developed. 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

Working collaboratively, planning team members, jurisdiction representatives, and stakeholders identified mitigation goals and objectives for the county and incorporated jurisdictions. Mitigation strategies were drafted based on the input provided by these stakeholders and presented to the Planning Team and community for review and comment. 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. Strategies for incorporated jurisdictions vary from the countywide in priority of the problem and the potential solution.

Strategy Descriptors

As jurisdictions developed strategies, the planning team considered who would be responsible for championing mitigation efforts, how the work would be funded, and in what order the jurisdictions would address potential actions. This information is identified for each strategy as described in table 3-2. Some of this information may change over the five-year life of this plan and as strategies are implemented. But for the planning process, the exercise of assigning timelines required stakeholders to evaluate current resources and determine how to best reduce the effects of disasters.

Table 3-2: Strategy Descriptors

Element	Definition
<i>Priority</i>	Each jurisdiction ranked hazards according to their jurisdiction’s priorities; that result is expressed in a table in the HIRA under each municipality’s vulnerability statement. In this section, all goals and strategies are expressed alphabetically according to hazard for ease of comparison and review and 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 addressed as the highest priority.
<i>Action Type</i>	The kind of activity described in the strategies Includes these types of actions: <ul style="list-style-type: none"> • 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
<i>Lead Agency</i>	The entity charged with championing the strategy and ensuring that jurisdiction officials look for opportunities to complete the strategy over the five-year planning cycle. This agency may not have the authority or power to execute a strategy or be responsible for project oversight or completion. Rather, the lead agency is responsible for coordinating the overall effort, plays a key role in championing the project or, by default, is the entity most appropriate to lead project development at the initial stage. If the strategy

Element	Definition
	becomes a feasible project, this agency is not the only entity that would be involved in its execution, nor is it the only entity involved in keeping the strategy on the jurisdiction's radar. For accountability purposes, the strategy is assigned to a single entity. When the strategy becomes a project, the jurisdiction would identify a project manager who may or may not represent the lead agency assigned in this plan.
<i>Timeline</i>	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. At the time of plan development, these timelines fit logically within each jurisdiction's resources and support programs.
<i>Funding Source</i>	<p>The potential funding source(s) for the strategy. Potential funding sources include:</p> <ul style="list-style-type: none"> • CDBG – Community Development Block Grants • 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 • COG – Clean Ohio Grant • 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 Huron County

The mitigation goals and strategies developed for Huron County affect Huron County as a whole and the unincorporated areas of the county. These mitigation strategies will be undertaken and overseen by the county government. These countywide strategies will be monitored by various elected and appointed county officials, including the EMA Director, County Engineer, and Soil and Water Conservation District Manager. The County Engineer is responsible for road maintenance. Floodplain management is a responsibility of the Soil and Water Conservation District. The EMA Director works with all jurisdictions and officials across Huron County to promote and implement disaster and emergency preparedness measures.

Many of the identified strategies will be funded through the county's local budget. Funding for the county budget comes from a variety of sources, including tax revenue, user fees, and other sources. Some of the larger natural resource preservation, property protection, and structurally engineered projects will likely 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.

The timeline established for all mitigation actions stretches across the entire five-year period for which the plan is valid. This is anticipated to be early 2019 through 2023. This timeline allows jurisdictions to implement strategies as funding becomes available.

Table 3-3: Huron County Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam Failure: Huron County will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible.					
1.1 The County will advocate that safety plans are in place for all Class I, II, and III dams and reservoirs that include accurate inundation areas and evacuation plans.					
55	Prevention	EMA Director	01/01/2019	12/31/2023	LOC
1.2 The County will develop and distribute dam safety information to distribute to owners of Class IV dams so they are aware of safety needs associated with structures located on their property.					
56	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
1.3 The County will ensure that evacuation plans for Class I dams are actionable, accurate, and available to affected populations and first responders in the designated area so that an efficient and effective evacuation could take place if necessary.					
53	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
1.4 The County will develop and implement an actionable method of communicating imminent dam incidents to the affected population to facilitate rapid protective action implementation.					
54	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
Goal 2 – Drought/Extreme Heat: Huron County will assess the reliability of water supplies during drought and extreme heat.					
2.1 The County will develop local public-private partnerships capable of supplying adequate potable water to communities if water treatment systems experience outages or distribution interruptions during dry spells.					
50	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
2.2 The County will work with all subdivisions, including cities, villages, and townships, to implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient, especially in areas where water is obtained through wells.					
52	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
2.3 The County will work with fire departments to support capabilities to fight rural fires like field and barn fires in periods of extremely dry conditions through rural water supply management, installation of dry hydrants in ponds, extension of regular hydrants and water distribution lines to rural areas, and acquisition/maintenance of water hauling apparatus.					
51	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC AFG
Goal 3 - Earthquake: Huron County will assess damage potential from earthquakes and establish a safety plan for residents.					
3.1 The County will assess earthquake damage potential through a survey of structures in unincorporated areas of the county and determine the estimated safest local area for sheltering after an incident for occupants of those structures.					
57	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
3.2 The County will work with the municipalities and townships to collect data about at-risk structures and sheltering capabilities in each jurisdiction and assemble this information into an earthquake response resource.					
58	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
Goal 4 – Flood: Huron County will work to lessen flooding, loss of life or injury, and property damage caused by flooding in all areas of the county.					
4.1 The County will maintain participation in NFIP to facilitate maximum understanding and prevention of flood concerns and provide an array of insurance alternatives to property owners.					
1	Prevention	EMA Director	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
4.2 The County will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
2	Prevention	EMA Director	01/01/2019	12/31/2023	LOC
4.3 The County will require structurally engineered flood prevention measures for new development and re-development, including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.					
13	Structurally Engineered Projects	County Engineer	01/01/2019	12/31/2023	PDM, FMA, HMGP, ICC
4.4 The County will identify, acquire, and demolish repetitive loss properties to prevent future flood damages.					
3	Prevention	EMA Director	01/01/2019	12/31/2023	PDM, RFC, SRL
4.5 The County will support and assist, as able, townships in maintaining and clearing debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment, to facilitate natural drainage.					
14	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC, ICC
4.6 The County will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, creeks, and rivers.					
4	Natural Resource Protection	SWCD Director	01/01/2019	12/31/2023	LOC
4.7 The County will work to help residents and businesses understand watershed in Huron County and help communities improve their collaboration and cooperation with watershed and conservancy groups through an improved understanding of watershed mechanics and practices.					
5	Natural Resource Protection	SWCD Director	01/01/2019	12/31/2023	LOC
4.8 The County will support jurisdictions as they work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water; install pumps or increase the size of bridge spans, where appropriate; and assist in filling gaps in capabilities or resolving inconsistencies where possible.					
6	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC, ICC, Other
4.9 The County will work with farmers and agri-businesses to decrease damages incurred due to nutrient runoff, manure-contaminated drainage, and farm equipment or structures that have a compounding effect on flash flooding.					
9	Natural Resource Protection	SCD Director	01/01/2019	12/31/2023	LOC, ST, Other
4.10 The County will work with railroads and pipelines to decrease damage potential due to surface runoff, hazardous chemicals that become part of flood water, and/or structures/components that have a negative effect on adjacent and nearby landowners after heavy rainfall or ice melt events.					
10	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
4.11 The County will create additional natural habitat and restore wetlands as a means to contain flood waters and allow natural drainage.					
12	Natural Resource Protection	EMA Director	01/01/2019	12/31/2023	LOC, ST, Other

Priority	Action Type	Lead	Start Date	End Date	Funding
4.12 The County will increase the use of temporary signs to mark flooded roads and areas in an effort to make the county, especially rural areas, safer during floods.					
7	Public Information	County Engineer	01/01/2019	12/31/2023	LOC
4.13 The County will work to repair county-owned and maintained roadways that are damaged by the effects of flash flooding, including roadways in the southwest part of the county that have predominantly muck soils that provide little support for roads, berms, and culverts.					
8	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC, ST, Other
4.14 The County will use elevation to remove bridges, culverts, equipment, pump stations, and other structures or devices from flood waters that impede function.					
11	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC; HMGP; PDM; FMA
Goal 5 – Hazardous Materials Incident: Huron County will work to lessen the number of spills, leaks, and releases from hazardous materials sources and lessen damages from such incidents.					
5.1 The County will work to improve signage and traffic indicators on county-owned and maintained roadways to prevent collisions involving vehicles carrying hazardous substances.					
31	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
5.2 The County will work with state, federal and local entities to maximize the development and use of truck routes that avoid highly populated residential areas, highly vulnerable facilities such as schools and hospitals, and other areas where a release of hazardous cargo would endanger large numbers of lives and property.					
29	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC
5.3 The County will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
30	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
5.4 The County will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction so that the appropriate reporting of hazardous and extremely hazardous materials is done in an accurate and timely fashion and so reports of spills and releases are prompt and accurate.					
32	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
5.5 The County will work with haulers and transporters of hazardous substances to ensure transportation is done safely and so that any spills or releases are promptly and thoroughly cleaned up and disposed of in a proper way.					
35	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC, Other
5.6 The County will work with businesses and residents to encourage proper pre-digging procedures before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					
33	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
5.7 The County will work with pipeline companies to ensure pipelines are installed in the safest way possible, that safety data is created and maintained, and that the air and water is monitored to detect any contamination so emergency procedures are activated appropriately.					
34	Prevention	EMA Director	01/01/2019	12/31/2023	LOC, Other
Goal 6 – Invasive Species: Huron 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 of various types.					
6.1 The County will work to clear public property of dead or diseased trees that have been affected by invasive species.					

Priority	Action Type	Lead	Start Date	End Date	Funding
40	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
6.2 The County will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris and will identify a source of funding for this debris collection.					
38	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
6.3 The County will monitor and communicate new invasive species threats to the public and support proactive measures to prevent the rapid and proliferous spread of plant or animal disease.					
39	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
Goal 7 – Severe Thunderstorm and Windstorm: Huron County will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
7.1 The County will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in residential, agricultural and commercial construction, renovation, and maintenance.					
	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC, ICC
7.2 The County will support the development of community storm centers and safe areas in jurisdictions and neighborhoods to serve as a community-based hub for information, coordination, and communication during storm response and recovery and will communicate with these centers to relay important response and recovery information.					
15	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
7.3 The County will encourage the location of mobile homes in mobile home parks across the county so that sheltering and other needs can be more reasonably provided by property owners and communities and will support grant applications for protective safe rooms and structures.					
16	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC; PDM
7.4 The County will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property and will work to help residents have access to flood insurance information and availability.					
23	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
7.5 The County will promote the continuation, improvement, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
17	Public Information	EMA Director	01/01/2019	12/31/2023	LOC, ST, Other
7.6 The County will work with rural and unincorporated areas to identify locations where transient populations, outdoor workers, populations who do not use electricity or telecommunications, or other visitors to the county may be located and how they might be reached with timely warnings and notifications in severe weather events.					
18	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
7.7 The County will work with railroads to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.					
22	Public Information	EMA Director	01/01/2019	12/31/2023	LOC, Other
7.8 The County will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice-resistant.					
20	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC; ICC
7.9 The County will work to support development standards which require underground installation of electric lines in subdivisions and appropriate commercial or industrial neighborhoods.					
19	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC; ICC

Priority	Action Type	Lead	Start Date	End Date	Funding
7.10 The County will acquire adequate generators to power crucial services during power outages, including schools, churches and other buildings that serve as community emergency shelters, pump stations, and public safety and administration buildings, especially on county-owned or used properties.					
21	Property Protection	EMA Director	01/01/2019	12/31/2023	PDM; HMGP
Goal 8 – Tornado: Huron County will reduce the damages suffered from tornadoes.					
8.1 The County will support grant applications for and the development of safe rooms for single and multi-family residential structures, including support of safe room grant opportunities.					
24	Property Protection	EMA Director	01/01/2019	12/31/2023	PDM, HMGP
8.2 The County will support grant applications for the development of public safe areas and storms shelters for residents of mobile homes and homes without basements, transient persons in the county, areas where groups of individuals gather, in schools where glass windows and walls put occupants at risk, and others who need shelter during tornadoes or other severe weather events.					
25	Property Protection	EMA Director	01/01/2019	12/31/2023	PDM, HMGP
8.3 The County will ensure that agreements exist for sheltering rural residents when homes are unlivable due to severe storms, tornadoes, and evacuations.					
26	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
8.4 The County will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
28	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
8.5 The County will support the implementation of communication systems that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt countywide.					
27	Public Information	EMA Director	01/01/2019	12/31/2023	LOC
Goal 9 – Water Quality: Huron 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.					
9.1 The County will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
41	Property Protection	EMA Director	01/01/2019	12/31/2023	LOC
9.2 The County will support improvements to water treatment systems that enhance the ability to detect and treat harmful contaminants.					
42	Prevention	County Engineer	01/01/2019	12/31/2023	LOC, ST, Other
9.3 The County will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
43	Prevention	SWCD Director	01/01/2019	12/31/2023	LOC, ST, Other
9.4 The County will work with farmers to support land stewardship initiatives, including but not limited to river cleaning efforts, pesticide and fertilizer application standards and training, conservation efforts to improve protection of natural resources, and water well testing on homesteads.					
49	Natural Resource Protection	SWCD Director	01/01/2019	12/31/2023	LOC, ST, Other

Priority	Action Type	Lead	Start Date	End Date	Funding
9.5 The County will work with the farm business community to establish enhanced collaboration and participation in programs that protect and preserve agriculture, such as the Agricultural Easement Purchase Program, Current Agricultural Use Valuation, development of agricultural districts, and agricultural zoning for appropriate areas that are best used by production agriculture.					
44	Property Protection	SWCD Director	01/01/2019	12/31/2023	LOC, ST, Other
9.6 The County will work with the farm business community to facilitate communication between farmers and commercial and industrial neighbors to evaluate and improve protection of the water supply, conservation of soil, and improved management of chemicals used for production purposes of all types.					
45	Public Information	SWCD Director	01/01/2019	12/31/2023	LOC, ST, Other
9.7 The County will work with non-farm residents and businesses to identify any contribution to the contamination of the water supply through nutrient runoff or other disposal practices, and to facilitate cooperation between farm and non-farm entities in the effort to preserve and protect natural resources.					
46	Natural Resource Protection	SWCD Director	01/01/2019	12/31/2023	LOC, ST, Other
9.8 The County will work with farmers and other owners of large parcels to investigate and develop drainage plans and solutions such as widespread drainage tile installation, improved culverts and bridge spans, enhanced ditch cleaning and river maintenance, and will search for financial incentive programs to assist them in the implementation of those actions either privately or publicly.					
47	Structurally Engineered Project	SWCD Director	01/01/2019	12/31/2023	LOC, ST, Other
9.9 The County will work to identify and acquire funding for improvements to soil and water conservation efforts, including actions at all levels and in all industries as well as on personal property, to lessen contamination of the water through surface runoff and nutrient loss.					
48	Natural Resource Protection	SWCD Director	01/01/2019	12/31/2023	LOC
Goal 10 – Winter Storms: Huron County will lessen damages suffered from severe winter storms and blizzards.					
10.1 The County will work to plow and clear county-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
36	Property Protection	County Engineer	01/01/2019	12/31/2023	LOC
10.2 The County will work with residents who live in rural areas to establish windbreaks that decrease the drifting of snow and will work with farmers to establish windbreaks and windrows on farms to prevent some drifting of rural roadways.					
37	Property Protection	SWCD Director	01/01/2019	12/31/2023	LOC

3.3.2 Greenwich

For Greenwich, mitigation strategies will be monitored and championed by the Village Administrator. The administrator will work with other community 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: Greenwich Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam Failure: Greenwich will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible					
1.1 The Village will ensure that safety plans are in place for the Greenwich Reservoir Dam and Greenwich Sewage Lagoons that include accurate inundation areas and evacuation plans.					
37	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC
1.2 The Village will ensure that evacuation plans for the reservoir and sewage lagoons are actionable, accurate, and available to affected populations and first responders in the designated area so that an efficient and effective evacuation could take place if necessary.					
38	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
1.3 The Village will develop and implement an actionable method of communicating imminent reservoir or lagoon incidents to the affected population to facilitate rapid implementation of protective actions.					
39	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 2 – Drought/Extreme Heat: Greenwich will assess the reliability of water supplies during drought and extreme heat.					
2.1 The Village will develop local public-private partnerships capable of supplying adequate potable water to village residents if water treatment systems experience outages or distribution interruptions during dry spells.					
35	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
2.2 The Village will work to support and implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient.					
36	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
2.3 The Village will work with the fire departments to support capabilities to fight field and barn fires in periods of extremely dry conditions through rural water supply management, installation of dry hydrants in ponds, extension of regular hydrants and water distribution lines to all village areas, and acquisition/maintenance of water hauling apparatus.					
34	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC AFG
Goal 3 - Earthquake: Greenwich will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The Village will assess the damage potential through a survey of structures in the village and determine the estimated safest local area for sheltering after an incident for occupants of those structures.					

Priority	Action Type	Lead	Start Date	End Date	Funding
42	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 4 – Flood: Greenwich will work to lessen flooding, loss of life or injury, and property damage from flooding in all areas of the village.					
4.1 The Village will maintain participation in NFIP to facilitate maximum understanding and prevention of flood concerns and provide an array of insurance alternatives to property owners.					
23	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC
4.2 The Village will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
24	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC
4.3 The Village will require structurally engineered flood prevention measures for new development and redevelopment including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.					
25	Structurally Engineered Projects	Village Administrator	01/01/2019	12/31/2023	PDM, FMA, HMGP, ICC
4.4 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.					
26	Prevention	Village Administrator	01/01/2019	12/31/2023	PDM, RFC, SRL
4.5 The Village will clear debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment, to facilitate natural drainage.					
27	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC
4.6 The Village will work to help residents and businesses understand watershed in Greenwich and maintain collaboration and cooperation with the county engineer and watershed conservancy groups to maintain ditches and the Southwest Branch of the Vermilion River as it flows through the village.					
29	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC
4.7 The Village will support jurisdictions as they work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate and assist in filling gaps in capabilities or resolving inconsistencies where possible.					
28	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC, Other
4.8 The Village will work with railroads and pipeline owners to decrease damage potential due to surface runoff, hazardous chemicals that become part of flood water, and/or structures/components that have a negative effect on adjacent and nearby landowners after heavy rainfall or ice melt.					
31	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC,
4.9 The Village will work to repair village-owned and maintained roadways that are damaged by the effects of flash flooding.					
30	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 5 – Hazardous Materials Incident: Greenwich will work to lessen both the number of spills, leaks, and releases from hazardous materials sources and lessen the damages from such incidents.					
5.1 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
19	Property Protection	Fire Chief	01/01/2019	12/31/2023	LOC
5.2 The Village will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction so that the appropriate reporting of hazardous and extremely hazardous materials is done in an accurate and timely fashion and so reports of spills and releases are done in a prompt and accurate manner.					
21	Property Protection	Fire Chief	01/01/2019	12/31/2023	LOC
5.3 The Village will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner and so that any spills or releases are promptly and thoroughly cleaned up and disposed of.					
20	Property Protection	Fire Chief	01/01/2019	12/31/2023	LOC, Other
5.4 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					
22	Public Information	Fire Chief	01/01/2019	12/31/2023	LOC
Goal 6 – Invasive Species: Greenwich will lessen the cost of plant debris caused by invasive species that weaken and destroy trees and create large amounts of debris requiring removal after storms of various types.					
6.1 The Village will work to clear public property of dead or diseased trees that have been affected by invasive species.					
32	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
6.2 The Village will work to identify reasonably priced and adequate debris disposal options after storms and will identify a source of funding for this debris collection.					
33	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 7 – Severe Thunderstorm and Windstorm: Greenwich will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
7.1 The Village will encourage the use of wind resistant construction materials, such as metal roofs and wind-resistant siding, in residential, agricultural and commercial construction, renovation, and maintenance.					
7	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC
7.2 The Village will support the development of community storm centers to serve as community-based hubs for information, coordination, and communication during storm response and recovery and will communicate with these centers to relay important response and recovery information.					
6	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
7.3 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property and will work to help residents have access to flood insurance information and availability.					
5	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
7.4 The Village will promote the continuation, improvement, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
1	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
7.5 The Village will identify locations where transient populations, outdoor workers, populations who do not use electricity or telecommunications, or other visitors may be located and how they might be reached with timely warnings and notifications.					
2	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
7.6 The Village will work with railroads to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.					
8	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC, Other
7.7 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
3	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC; ICC
7.8 The Village will acquire adequate generators to power crucial services during power outages, including shelters, pump stations, and public safety and administration buildings, and others.					
4	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC; PDM; HMGP
Goal 8 – Tornado: Greenwich will reduce the damages suffered from tornadoes.					
8.1 The Village will support grant applications for the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.					
11	Property Protection	Village Administrator	01/01/2019	12/31/2023	PDM, HMGP
8.2 The Village will support grant applications for the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, transient person in the village, areas where groups of individuals gather, and others who need shelter during tornadoes or other severe weather events.					
10	Property Protection	Village Administrator	01/01/2019	12/31/2023	PDM, HMGP
8.3 The Village will ensure that agreements exist for sheltering rural residents when homes are unlivable due to severe storms, tornadoes, and evacuations.					
9	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
8.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
13	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
8.5 The Village will support the implementation of communication systems that enable communication between all responders across the county in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt countywide.					

Priority	Action Type	Lead	Start Date	End Date	Funding
12	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 9 – Water Quality: Greenwich 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.					
9.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
16	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
9.2 The Village will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
17	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
9.3 The Village will work to identify and acquire funding for improvements to lessen contamination of the water through surface runoff and nutrient loss.					
18	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 10 – Winter Storms: Greenwich will lessen damages suffered from severe winter storms and blizzards.					
10.1 The Village will work to plow and clear village-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
14	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
10.2 The Village will work with residents to establish windbreaks that decrease the drifting of snow, and will work with farmers to establish windbreaks and windrows on farms to prevent some drifting of rural roadways.					
15	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC

3.3.3 Monroeville

In Monroeville, 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 3-5: Monroeville Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam Failure: Monroeville will work to ensure the village-owned low head dam on the Huron River and upground reservoir to the southwest of the village are well maintained and pose as little risk to the community as possible					
1.1 The Village will develop and implement an actionable method of communicating imminent dam incidents to the affected population to facilitate rapid protective action implementation if necessary.					
47	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 2 – Drought/Extreme Heat: Monroeville will assess the reliability of water supplies during drought and extreme heat.					
2.1 The Village will develop local public-private partnerships capable of supplying adequate potable water to residents if water treatment systems experience outages or distribution interruptions during dry spells.					
46	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
2.2 The Village will work with the fire department to support capabilities to fight fires like field and barn fires in periods of extremely dry conditions through rural water supply management, installation of dry hydrants in ponds, extension of regular hydrants and water distribution lines to rural areas, and acquisition/maintenance of water hauling apparatus.					
45	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC AFG
Goal 3 - Earthquake: Monroeville will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The Village will assess the damage potential through a survey of structures and determine the estimated safest local area for sheltering after an incident for occupants of those structures.					
44	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 4 – Flood: Monroeville will work to lessen flooding, loss of life or injury, and property damage from flooding in all areas of The Village.					
4.1 The Village will maintain participation in NFIP to facilitate maximum understanding of and prevention of flood concerns and provide an array of insurance alternatives to property owners.					
26	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC
4.2 The Village will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
28	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
4.3 The Village will require structurally engineered flood prevention measures for new development and redevelopment including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and other structures.					
39	Structurally Engineered Projects	Village Administrator	01/01/2019	12/31/2023	PDM, FMA, HMGP, ICC
4.4 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.					
29	Prevention	Village Administrator	01/01/2019	12/31/2023	PDM, RFC, SRL
4.5 The Village will maintain and clear debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment, to facilitate natural drainage.					
30	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC
4.6 The Village will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve the Huron River as it flows through the village.					
38	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC
4.7 The Village will work to help residents and businesses understand watershed in Monroeville and help improve collaboration and cooperation with watershed and conservancy groups through an improved understanding of watershed mechanics and practices.					
37	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC
4.8 The Village will maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans or culverts where appropriate.					
31	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC, Other
4.9 The Village will work with the railroad to decrease damage potential due to surface runoff, hazardous chemicals that become part of flood water, and/or rail line components that have a negative effect on adjacent and nearby landowners after heavy rainfall or ice melt.					
35	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC,
4.10 The Village will create additional natural habitat and restore wetlands as a means to contain flood waters and to allow natural drainage.					
36	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
4.11 The Village will increase the use of temporary signs to mark flooded streets and areas in an effort to make streets safer during floods.					
32	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
4.12 The Village will work to repair village streets that are damaged by the effects of flash flooding.					
33	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
4.13 The Village will use elevation to remove bridges, culverts, equipment, pump stations, and other structures or devices from flood waters that impede function.					
34	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC; HMGP; PDM; FMA

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 5 – Hazardous Materials Incident: Monroeville will work to lessen the number of spills, leaks, and releases from hazardous materials sources and as damages from such incidents.					
5.1 The Village will work to improve signage and traffic indicators on streets and highways inside the village as a way to prevent collisions involving vehicles carrying hazardous substances.					
1	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
5.2 The Village will work with state and federal highway departments to maintain highway safety in highly vulnerable zones such as schools, churches, and other areas where a release of hazardous cargo would endanger the public.					
6	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
5.3 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
2	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
5.4 The Village will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction so that the appropriate reporting of hazardous and extremely hazardous materials is done in an accurate and timely fashion, and so that reports of spills and releases are prompt and accurate.					
3	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
5.5 The Village will work with haulers and transporters of hazardous substances to ensure transportation through the village is done in a safe manner, and so that any spills or releases are promptly and thoroughly cleaned up and disposed of.					
4	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, Other
5.6 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					
5	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 6 – Invasive Species: Monroeville will lessen the cost of plant debris caused by invasive species that weaken and destroy trees and cause large amounts of debris requiring removal after storms.					
6.1 The Village will work to clear public property of dead or diseased trees that have been affected by invasive species.					
43	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
6.2 The Village will work to identify reasonably priced and adequate debris disposal options after storms and will identify a source of funding for this debris collection.					
42	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 7 – Severe Thunderstorm and Windstorm: Monroeville will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
7.1 The Village will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in residential, agricultural and commercial construction, renovation, and maintenance.					

Priority	Action Type	Lead	Start Date	End Date	Funding
15	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC
7.2 The Village will support the development of community storm centers to serve as a community-based hub for information, coordination, and communication during storm response and recovery, and will communicate with these centers to relay important response and recovery information.					
7	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
7.3 The Village will encourage the location of mobile homes in mobile home parks across the village so that sheltering and other needs can be more reasonably provided by property owners, and will support their grant applications for protective safe rooms and structures.					
8	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC; PDM
7.4 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property and will work to help residents have access to flood insurance information and availability.					
10	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
7.5 The Village will promote the continuation, improvement, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
9	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
7.6 The Village will identify locations where transient populations, outdoor workers, spectators at sporting or other events, or visitors to the village may be located and how they might be reached with timely warnings and notifications.					
11	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
7.7 The Village will work with railroads to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.					
14	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC, Other
7.8 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
12	Prevention	Village Administrator	01/01/2019	12.31.2023	LOC ICC
7.9 The Village will acquire adequate generators to power crucial services during power outages, including shelters, pump stations, and public safety and administration buildings, especially on village-owned or used properties.					
13	Property Protection	Village Administrator	01/01/2019	12/31/2023	PDM; HMGP
Goal 8 – Tornado: Monroeville will reduce the damages suffered from tornadoes.					
8.1 The Village will support grant applications and the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.					

Priority	Action Type	Lead	Start Date	End Date	Funding
22	Property Protection	Village Administrator	01/01/2019	12/31/2023	PDM, HMGP
8.2 The Village will support grant applications for the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, areas where groups of individuals gather, and others who need shelter during tornadoes or other severe weather events.					
23	Property Protection	Village Administrator	01/01/2019	12/31/2023	PDM, HMGP
8.3 The Village will ensure that agreements exist for sheltering residents when homes are unlivable due to severe storms, tornadoes, and evacuations.					
24	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
8.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
27	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
8.5 The Village will support the implementation of communication systems that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt locally or countywide.					
25	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 9 – Water Quality: Monroeville 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.					
9.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
16	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
9.2 The Village will support improvements to water treatment systems that enhance the ability to detect and treat harmful contaminants.					
17	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
9.3 The Village will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
18	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
9.4 The Village will support land stewardship initiatives, including but not limited to river cleaning efforts, pesticide and fertilizer application standards and training, conservation efforts to improve protection of natural resources, and water well testing on homesteads.					
19	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
9.5 The Village will work with residents and businesses to identify any contribution to the contamination of the water supply through nutrient runoff or other disposal practices and facilitate cooperation between residents in the effort to preserve and protect natural resources.					
20	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other

Priority	Action Type	Lead	Start Date	End Date	Funding
9.6 The Village will work to identify and acquire funding for improvements to soil and water conservation efforts, including actions at all levels and in all industries as well as on personal property, to lessen contamination of the water through surface runoff and nutrient loss.					
21	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 10 – Winter Storms: Monroeville will lessen damages suffered from severe winter storms and blizzards.					
10.1 The Village will work to plow and clear village-maintained streets to facilitate emergency traffic, necessary travel, and business access.					
40	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
10.2 The Village will work with residents to establish windbreaks that decrease the drifting of snow to prevent some drifting of rural roadways.					
41	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC

3.3.4 New London

The Mayor will monitor progress on mitigation strategies for New London and collaborate 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.

Table 3-6: New London Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam Failure: New London will work to ensure that the New London reservoir is well maintained and poses as little risk to the community as possible					
1.1 The Village will ensure that a safety plan is in place for the reservoir that includes accurate inundation areas and evacuation plans.					
46	Prevention	Mayor	01/01/2019	12/31/2023	LOC
1.2 The Village will develop and implement an actionable method of communicating imminent reservoir emergencies to the affected population to facilitate rapid protective action implementation.					
45	Public Information	Mayor	01/01/2019	12/31/2023	LOC
Goal 2 – Drought/Extreme Heat: New London will assess the reliability of water supplies during drought and extreme heat.					
2.1 The Village will develop local public-private partnerships capable of supplying adequate potable water to village residents if water treatment systems experience outages or distribution interruptions occur during dry spells.					
41	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
2.2 The Village will implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient, especially in any area where water is obtained through wells.					
42	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
2.3 The Village will work with the fire department to support capabilities to fight field and barn fires in periods of extremely dry conditions through rural water supply management, installation of dry hydrants in ponds, extension of regular hydrants and water distribution lines to rural areas, and acquisition/maintenance of water hauling apparatus.					
40	Property Protection	Mayor	01/01/2019	12/31/2023	LOC AFG
Goal 3 - Earthquake: New London will assess damage potential from earthquakes and establish a safety plan for residents.					
3.1 The Village will assess the damage potential through a survey of structures in the village and determine the estimated safest local area for sheltering after an incident for occupants of those structures.					
47	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
Goal 4 – Flood: New London will work to lessen flooding, loss of life or injury, and property damage from flooding in all areas of The Village.					
4.1 The Village will maintain participation in NFIP to facilitate maximum understanding and prevention of flood concerns and provide an array of insurance alternatives to property owners.					
16	Prevention	Mayor	01/01/2019	12/31/2023	LOC
4.2 The Village will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
17	Prevention	Mayor	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
4.3 The Village will require structurally engineered flood prevention measures for new development and redevelopment including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.					
18	Structurally Engineered Projects	Mayor	01/01/2019	12/31/2023	PDM, FMA, HMGP, ICC
4.4 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.					
19	Prevention	Mayor	01/01/2019	12/31/2023	PDM, RFC, SRL
4.5 The Village will maintain and clear debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment, to facilitate natural drainage.					
22	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ICC
4.6 The Village will collaborate with the county engineer to maintain, clean, and improve ditches, streams, and creeks in the village.					
23	Natural Resource Protection	Mayor	01/01/2019	12/31/2023	LOC
4.7 The Village will work to help residents and businesses understand watershed in New London and help communities improve their collaboration and cooperation with the county engineer and SWCD through an improved understanding of watershed mechanics and practices.					
21	Natural Resource Protection	Mayor	01/01/2019	12/31/2023	LOC
4.8 The Village will maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate and will assist to fill gaps in capabilities or resolve inconsistencies where possible.					
20	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ICC, Other
4.9 The Village will work with the railroad to decrease damage potential due to surface runoff, hazardous chemicals that become part of flood water, and/or structures/components that have a negative effect on adjacent and nearby landowners after heavy rainfall or ice melt.					
26	Property Protection	Mayor	01/01/2019	12/31/2023	LOC,
4.10 The Village will create additional natural habitat and restore wetlands as a means to contain flood waters and to allow natural drainage.					
27	Natural Resource Protection	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
4.11 The Village will increase the use of temporary signs to mark flooded streets in an effort to make streets safer during floods.					
24	Public Information	Mayor	01/01/2019	12/31/2023	LOC
4.12 The Village will work to repair village streets that are damaged by the effects of flash flooding to prevent damage.					
25	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
Goal 5 – Hazardous Materials Incident: New London will work to lessen the number of spills, leaks, and releases from hazardous materials sources and the damages from such incidents.					
5.1 The Village will work to improve signage and traffic indicators inside the village as a way to prevent collisions involving vehicles carrying hazardous substances.					
38	Public Information	Mayor	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
5.2 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
35	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
5.3 The Village will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction so that the appropriate reporting of hazardous and extremely hazardous materials is done in an accurate and timely fashion, and so that reports of spills and releases are done in a prompt and accurate manner.					
39	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
5.4 The Village will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner and so that any spills or releases are promptly and thoroughly cleaned up and disposed of.					
37	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, Other
5.5 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					
36	Public Information	Mayor	01/01/2019	12/31/2023	LOC
Goal 6 – Invasive Species: New London 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.					
6.1 The Village will work to clear public property of dead or diseased trees that have been affected by invasive species.					
40	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
6.2 The Village will work to identify reasonably priced and adequate debris disposal options after storms and will identify a source of funding for this debris collection.					
43	Public Information	Mayor	01/01/2019	12/31/2023	LOC
6.3 The Village will monitor and communicate new invasive species threats to the public in support of proactive measures to prevent the rapid and proliferous spread of plant or animal disease.					
44	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
Goal 7 – Severe Thunderstorm and Windstorm: New London will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
7.1 The Village will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in residential and commercial construction, renovation, and maintenance.					
9	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ICC
7.2 The Village will support the development of community storm centers to serve as community-based hubs for information, coordination, and communication during storm response and recovery, and will communicate with these centers to relay important response and recovery information.					
1	Public Information	Mayor	01/01/2019	12/31/2023	LOC
7.3 The Village will encourage the location of mobile homes in mobile home parks so that sheltering and other needs can be more reasonably provided and will support their grant applications for protective safe rooms and structures.					
10	Property Protection	Mayor	01/01/2019	12/31/2023	LOC; PDM
7.4 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property and will work to help residents have access to flood insurance information and availability.					
2	Public Information	Mayor	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
7.5 The Village will promote the continuation, improvement, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
3	Public Information	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
7.6 The Village will identify locations where transient populations, outdoor workers, populations who do not use electricity or telecommunications, or other visitors may be located and how they might be reached with timely warnings and notifications.					
7	Public Information	Mayor	01/01/2019	12/31/2023	LOC
7.7 The Village will work with the railroad to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.					
8	Public Information	Mayor	01/01/2019	12/31/2023	LOC, Other
7.8 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
5	Property Protection	Mayor	01/01/2019	12/31/2023	LOC; ICC
7.9 The Village will work to support development standards which require underground installation of electric lines in subdivisions and appropriate commercial or industrial neighborhoods.					
6	Prevention	Mayor	01/01/2019	12/31/2023	LOC; ICC
7.10 The Village will acquire, replace, or upgrade generators to power crucial services during power outages, including shelters, pump stations, and public safety and administration buildings, especially on village-owned or used properties.					
4	Property Protection	Mayor	01/01/2019	12/31/2023	LOC; PDM; HMGP
Goal 8 – Tornado: New London will reduce the damages suffered from tornadoes.					
8.1 The Village will support grant applications for the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.					
12	Property Protection	Mayor	01/01/2019	12/31/2023	PDM, HMGP
8.2 The Village will support grant applications for the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, transient person in the village, areas where groups of individuals gather, and others who need shelter during tornadoes or other severe weather events.					
13	Property Protection	Mayor	01/01/2019	12/31/2023	PDM, HMGP
8.3 The Village will ensure that agreements exist for sheltering residents when homes are unlivable due to severe storms, tornadoes, and evacuations.					
15	Public Information	Mayor	01/01/2019	12/31/2023	LOC
8.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
14	Public Information	Mayor	01/01/2019	12/31/2023	LOC
8.5 The Village will support the implementation of communication systems that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt countywide.					
11	Public Information	Mayor	01/01/2019	12/31/2023	LOC
Goal 9 – Water Quality: New London 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.					

Priority	Action Type	Lead	Start Date	End Date	Funding
9.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
31	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
9.2 The Village will support improvements to water treatment systems that enhance the ability to detect and treat harmful contaminants.					
33	Prevention	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
9.3 The Village will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
34	Prevention	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
9.4 The Village will work with residents and businesses to identify any contribution to the contamination of the water supply through nutrient runoff or other disposal practices and facilitate cooperation between farm and non-farm entities in the effort to preserve and protect natural resources.					
30	Natural Resource Protection	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
9.5 The Village will work to identify and acquire funding for improvements to soil and water conservation efforts, including actions at all levels and in all industries as well as on personal property, to lessen contamination of the water through surface runoff and nutrient loss.					
32	Natural Resource Protection	Mayor	01/01/2019	12/31/2023	LOC
Goal 10 – Winter Storms: New London will lessen damages suffered from severe winter storms and blizzards.					
10.1 The Village will plow and clear village streets to facilitate emergency traffic, necessary travel, and business access.					
28	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
10.2 The Village will work with residents to establish windbreaks that decrease the drifting of snow, and will work to establish windbreaks and windrows to prevent some drifting of streets.					
29	Property Protection	Mayor	01/01/2019	12/31/2023	LOC

3.3.5 North Fairfield

In North Fairfield, mitigation strategies will be monitored and championed by the Mayor. The mayor will work with the administrator, 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 3-7: North Fairfield Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Drought/Extreme Heat: North Fairfield will assess the reliability of water supplies during drought and extreme heat.					
1.1 The Village will develop local public-private partnerships capable of supplying adequate potable water to residents if water treatment systems experience outages or distribution interruptions during dry spells.					
30	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
1.2 The Village will implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient, especially in areas where water is obtained through wells.					
31	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
1.3 The Village will work with the fire department to support capabilities to fight field and barn fires in periods of extremely dry conditions through rural water supply management, installation of dry hydrants in ponds, extension of regular hydrants and water distribution lines to rural areas, and acquisition/maintenance of water hauling apparatus.					
29	Property Protection	Mayor	01/01/2019	12/31/2023	LOC AFG
Goal 2 - Earthquake: North Fairfield will assess damage potential from earthquake and establish a safety plan for residents.					
2.1 The Village will assess the damage potential through a survey of structures in the village and will determine the estimated safest local area for sheltering after an incident for occupants of those structures.					
39	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
Goal 3 – Flood: North Fairfield will work to lessen flooding, loss of life or injury, and property damage from flooding in all areas of The Village.					
3.1 The Village will maintain participation in NFIP to facilitate maximum understanding and prevention of flood concerns and provide an array of insurance alternatives to property owners.					
18	Prevention	Mayor	01/01/2019	12/31/2023	LOC
3.2 The Village will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
19	Prevention	Mayor	01/01/2019	12/31/2023	LOC
3.3 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.					
20	Prevention	Mayor	01/01/2019	12/31/2023	PDM, RFC, SRL
3.4 The Village will clear debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment, to facilitate natural drainage.					
21	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ICC
3.5 The Village will help residents and businesses understand watershed in North Fairfield and help improve their collaboration with the county engineer and watershed groups through an understanding of watershed mechanics and practices.					

Priority	Action Type	Lead	Start Date	End Date	Funding
25	Natural Resource Protection	Mayor	01/01/2019	12/31/2023	LOC
3.6 The Village will work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans and culvert size where appropriate.					
22	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ICC, Other
3.7 The Village will increase the use of temporary signs to mark flooded streets and areas in an effort to make the village safer during floods.					
23	Public Information	Mayor	01/01/2019	12/31/2023	LOC
3.8 The Village will work to repair streets that are damaged by the effects of flash flooding.					
24	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
Goal 4 – Hazardous Materials Incident: North Fairfield will work to lessen the number of spills, leaks, and releases from hazardous materials sources and damages from such incidents.					
4.1 The Village will work to improve signage and traffic indicators on village streets as a way to prevent collisions involving vehicles carrying hazardous substances, and will work with the State of Ohio and Huron County to do the same on state and county roadways.					
13	Public Information	Mayor	01/01/2019	12/31/2023	LOC
4.2 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
12	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
4.3 The Village will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner, and so that any spills or releases are promptly and thoroughly cleaned up and disposed of in a proper way.					
15	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, Other
4.4 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					
14	Public Information	Mayor	01/01/2019	12/31/2023	LOC
Goal 5 – Invasive Species: North Fairfield 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.					
5.1 The Village will clear public property of dead or diseased trees that have been affected by invasive species.					
26	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
5.2 The Village will identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris and will identify a source of funding for this debris collection.					
27	Public Information	Mayor	01/01/2019	12/31/2023	LOC
5.3 The Village will monitor and communicate new invasive species threats to the public in support of proactive measures to prevent the rapid and proliferous spread of plant or animal disease.					
28	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
Goal 6 – Severe Thunderstorm and Windstorm: North Fairfield will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
6.1 The Village will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in residential, agricultural and commercial construction, renovation, and maintenance.					
5	Property Protection	Mayor	01/01/2019	12/31/2023	LOC, ICC

Priority	Action Type	Lead	Start Date	End Date	Funding
6.2 The Village will support the development of community storm centers and safe areas to serve as community-based hubs for information, coordination, and communication during storm response and recovery and will communicate with these centers to relay important response and recovery information.					
4	Public Information	Mayor	01/01/2019	12/31/2023	LOC
6.4 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property and will work to help residents have access to flood insurance information and availability.					
6	Public Information	Mayor	01/01/2019	12/31/2023	LOC
6.5 The Village will promote the continuation, improvement, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
1	Public Information	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
6.7 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
3	Property Protection	Mayor	01/01/2019	12/31/2023	LOC; ICC
6.8 The Village will acquire adequate generators to power crucial services during power outages, including shelters, pump stations, and public safety and administration buildings, especially on village properties.					
2	Property Protection	Mayor	01/01/2019	12/31/2023	PDM; HMGP
Goal 7 – Tornado: North Fairfield will reduce the damages suffered from tornadoes.					
7.1 The Village will support grant applications for and the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.					
7	Property Protection	Mayor	01/01/2019	12/31/2023	PDM, HMGP
7.2 The Village will support grant applications for the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, transient person in the village, areas where groups of individuals gather, and others who need shelter during tornadoes or other severe weather events.					
9	Property Protection	Mayor	01/01/2019	12/31/2023	PDM, HMGP
7.3 The Village will ensure that agreements exist for sheltering rural residents when homes are unlivable due to severe storms and tornadoes and evacuations.					
10	Public Information	Mayor	01/01/2019	12/31/2023	LOC
7.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
11	Public Information	Mayor	01/01/2019	12/31/2023	LOC
7.5 The Village will support the implementation of communication systems that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt countywide.					
8	Public Information	Mayor	01/01/2019	12/31/2023	LOC
Goal 8 – Water Quality: North Fairfield 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.					
8.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
32	Property Protection	Mayor	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
8.2 The Village will support improvements to water treatment systems that enhance the ability to detect and treat harmful contaminants.					
35	Prevention	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
8.3 The Village will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
33	Prevention	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
8.4 The Village will work with residents and businesses to identify any contribution to the contamination of the water supply through nutrient runoff or other disposal practices, and to facilitate cooperation between all entities to preserve and protect natural resources.					
34	Natural Resource Protection	Mayor	01/01/2019	12/31/2023	LOC, ST, Other
Goal 9 – Winter Storms: North Fairfield will lessen damages suffered from severe winter storms and blizzards.					
9.1 The Village will work to plow and clear village-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
16	Property Protection	Mayor	01/01/2019	12/31/2023	LOC
9.2 The Village will work with residents to establish windbreaks that decrease the drifting of snow to establish windbreaks to prevent some drifting of rural roadways.					
17	Property Protection	Mayor	01/01/2019	12/31/2023	LOC

3.3.6 Norwalk

In general, mitigation strategies for Norwalk will be monitored by the Safety Service Director. Because some strategies apply specifically to other city departments, several are assigned to the Public Works Director. These individuals will work with the city's leadership team to identify opportunities for mitigation activity that will reduce Norwalk's vulnerability to the identified hazards. While most mitigation strategies will likely be funded through the city's budget, state and federal grants will be sought to fund projects when possible.

Table 3-8: Norwalk Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam Failure: Norwalk will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible.					
1.1 The City will advocate that safety plans are in place for all reservoirs that include accurate inundation areas and evacuation plans.					
36	Prevention	Safety Service Director	01/01/2019	12/31/2023	LOC
1.2 The City will ensure that evacuation plans for Class I dams are actionable, accurate, and available to affected populations and first responders in the designated area so that an efficient and effective evacuation could take place if necessary.					
38	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
1.3 The City will develop and implement an actionable method of communicating imminent dam incidents to the affected population to facilitate rapid protective action implementation.					
37	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
Goal 2 – Drought/Extreme Heat: Norwalk will assess the reliability of water supplies during drought and extreme heat.					
2.1 The City will develop local public-private partnerships capable of supplying adequate potable water to the city if water treatment systems experience outages or distribution interruptions during dry spells.					
51	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
2.2 The City will implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient.					
52	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
2.3 The City will work with the fire department to support capabilities to fight field and barn fires in periods of extremely dry conditions through rural water supply management, installation of dry hydrants in ponds, extension of regular hydrants and water distribution lines to rural areas, and acquisition/maintenance of water hauling apparatus.					
50	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC AFG
Goal 3 - Earthquake: Norwalk will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The City will assess the damage potential through a survey of structures in the city and determine the estimated safest local area for sheltering after an incident for occupants of those structures.					

Priority	Action Type	Lead	Start Date	End Date	Funding
53	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
3.2 The City will collect data about at-risk structures and sheltering capabilities in the city.					
54	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
Goal 4 – Flood: Norwalk will work to lessen flooding, loss of life or injury, and property damage from flooding in all areas of the City.					
4.1 The City will maintain participation in NFIP to facilitate maximum understanding and prevention of flood concerns and provide insurance alternatives to property owners.					
1	Prevention	Safety Service Director	01/01/2019	12/31/2023	LOC
4.2 The City will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
2	Prevention	Public Works Director	01/01/2019	12/31/2023	LOC
4.3 The City will require structurally engineered flood prevention measures for new development and re-development including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.					
11	Structurally Engineered Projects	Public Works Director	01/01/2019	12/31/2023	PDM, FMA, HMGP, ICC
4.4 The City will identify, acquire, and demolish repetitive loss properties to prevent future damages.					
10	Prevention	Safety Service Director	01/01/2019	12/31/2023	PDM, RFC, SRL
4.5 The City will maintain and clear debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions like dams built by beavers, and excess sediment, to facilitate natural drainage.					
3	Property Protection	Public Works Director	01/01/2019	12/31/2023	LOC, ICC
4.6 The City will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, and creeks inside the city.					
9	Natural Resource Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
4.7 The City will work to help residents and businesses understand watershed in Norwalk and improve collaboration and cooperation with watershed and conservancy groups through an improved understanding of watershed mechanics and practices.					
8	Natural Resource Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
4.8 The City will maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water, install pumps or increase the size of bridge spans where appropriate, and assist to fill gaps in capabilities or resolve inconsistencies where possible.					
4	Property Protection	Public Works Director	01/01/2019	12/31/2023	LOC, ICC, Other
4.9 The City will work with railroad and pipeline owners to decrease damage potential due to surface runoff, hazardous chemicals that become part of flood water, and/or structures and components that have a negative effect on adjacent and nearby landowners after heavy rainfall or ice melt.					

Priority	Action Type	Lead	Start Date	End Date	Funding
12	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC,
4.10 The City will create additional natural habitats and restore wetlands as a means to contain flood waters and allow natural drainage.					
13	Natural Resource Protection	Safety Service Director	01/01/2019	12/31/2023	LOC, ST, Other
4.11 The City will increase the use of temporary signs to mark flooded streets and areas in an effort to make the city safer during floods.					
7	Public Information	Public Works Director	01/01/2019	12/31/2023	LOC
4.12 The City will work to repair city-maintained streets that are damaged by the effects of flash flooding.					
5	Property Protection	Public Works Director	01/01/2019	12/31/2023	LOC, ST, Other
4.13 The City will use elevation to remove bridges, culverts, equipment, pump stations, and other structures or devices from flood waters that impede function.					
6	Property Protection	Public Works Director	01/01/2019	12/31/2023	LOC; HMGP; PDM; FMA
Goal 5 – Hazardous Materials Incident: Norwalk 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.					
5.1 The City will work to improve signage and traffic indicators on city-maintained roadways as a way to reduce or prevent collisions involving vehicles carrying hazardous substances.					
30	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
5.2 The City will work with the state, federal and other local entities to maximize the development and use of truck routes that avoid highly populated residential areas, highly vulnerable facilities such as schools and hospitals, and other areas where a release of hazardous cargo would endanger lives and property.					
29	Property Protection	Public Works Director	01/01/2019	12/31/2023	LOC
5.3 The City will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
32	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
5.4 The City will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction so that the appropriate reporting of hazardous and extremely hazardous materials, spills, and releases is done in an accurate and timely manner.					
34	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
5.5 The City will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner, and so that any spills or releases are promptly and thoroughly cleaned up and disposed of.					
31	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC, Other
5.6 The City will work with businesses and residents to encourage use of proper pre-digging procedures before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					

Priority	Action Type	Lead	Start Date	End Date	Funding
33	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
5.7 The City will work with pipeline companies to ensure pipelines are installed in the safest way possible, that safety data is created and maintained, and that the air and water is monitored to detect any contamination so emergency procedures are activated appropriately.					
35	Prevention	Safety Service Director	01/01/2019	12/31/2023	LOC, Other
Goal 6 – Invasive Species: Norwalk 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.					
6.1 The City will work to clear public property of dead or diseased trees that have been affected by invasive species.					
48	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
6.2 The City will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris and will identify a source of funding for this debris collection.					
47	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
6.3 The City will monitor and communicate new invasive species threats to the public in support of proactive measures to prevent the rapid and proliferous spread of plant or animal disease.					
49	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
Goal 7 – Severe Thunderstorm and Windstorm: Norwalk will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
7.1 The City will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in residential and commercial construction, renovation, and maintenance.					
20	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC, ICC
7.2 The City will support the development of community storm centers and safe areas to serve as hubs for information, coordination, and communication during storm response and recovery and will communicate with these centers to relay important response and recovery information.					
21	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
7.3 The City will encourage mobile homes be located in mobile home parks so that safe rooms can be provided and the city will support their grant applications for protective safe rooms.					
16	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC; PDM
7.4 The City will advocate that all property owners carry adequate and appropriate insurance to cover relevant hazards that may damage their property and will work to help residents have access to flood insurance information and availability.					
19	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
7.5 The City will promote the continuation, improvement, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, opt-in notification systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					

Priority	Action Type	Lead	Start Date	End Date	Funding
14	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC, ST, Other
7.6 The City will work to identify locations where transient populations, outdoor workers, populations who do not use electricity or telecommunications, or other visitors may be located and how they might be reached with timely warnings and notifications.					
15	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
7.7 The City will work with railroads in the area to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.					
22	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC, Other
7.8 The City will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
18	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC, Other
7.9 The City will support development standards that require underground installation of electric lines in subdivisions and appropriate commercial or industrial neighborhoods.					
23	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC, Other
7.10 The City will acquire adequate generators to power crucial services during power outages, including shelters, pump stations, and public safety and administration buildings, especially on city-owned or used properties.					
17	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC, Other
Goal 8 – Tornado: Norwalk will reduce the damages suffered from tornadoes.					
8.1 The City will support the development of safe rooms for single and multi-family residential structures, including support of safe room grant opportunities.					
24	Property Protection	Safety Service Director	01/01/2019	12/31/2023	PDM, HMGP
8.2 The City will support grant applications for the development of public safe areas and storm shelters for residents of mobile homes, homes without basements, transient populations, areas where groups of individuals gather, and others who need shelter during tornadoes or other severe weather events.					
25	Property Protection	Safety Service Director	01/01/2019	12/31/2023	PDM, HMGP
8.3 The City will ensure that agreements exist for sheltering residents when homes are unlivable due to severe storms, tornadoes, and evacuations.					
26	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
8.4 The City will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
27	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
8.5 The City will support the implementation of communication systems that enable communication between responders across the City in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt countywide.					
28	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC
Goal 9 – Water Quality: Norwalk 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.					
9.1 The City will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
39	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
9.2 The City will support improvements to water treatment systems that enhance the ability to detect and treat harmful contaminants.					
40	Prevention	Public Works Director	01/01/2019	12/31/2023	LOC, ST, Other
9.3 The City will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
41	Prevention	Safety Service Director	01/01/2019	12/31/2023	LOC, ST, Other
9.4 The City will work with the farm business community to facilitate communication between farmers and commercial and industrial neighbors to evaluate and improve protection of the water supply, conservation of soil, and improved management of chemicals used for production purposes of all types.					
42	Public Information	Safety Service Director	01/01/2019	12/31/2023	LOC, ST, Other
9.5 The City will work with non-farm residents and businesses to identify any contribution to the contamination of the water supply through nutrient runoff or other disposal practices, and to facilitate cooperation between farm and non-farm entities in the effort to preserve and protect natural resources.					
43	Natural Resource Protection	Safety Service Director	01/01/2019	12/31/2023	LOC, ST, Other
9.6 The City will work to identify and acquire funding to lessen contamination of the water through surface runoff and nutrient loss.					
44	Natural Resource Protection	Safety Service Director	01/01/2019	12/31/2023	LOC
Goal 10 – Winter Storms: Norwalk will lessen damages suffered from severe winter storms and blizzards.					
10.1 The City will work to plow and clear city-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
45	Property Protection	Public Works Director	01/01/2019	12/31/2023	LOC
10.2 The City will work with residents who live in open areas to establish windbreaks that decrease the drifting of snow, and will work with landowners to establish windbreaks to prevent some drifting of city streets.					
46	Property Protection	Safety Service Director	01/01/2019	12/31/2023	LOC

3.3.7 Wakeman

In Wakeman, the Village 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.

Table 3-9: Wakeman Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam Failure: Wakeman will work to ensure all dams and reservoirs that may affect the village are well maintained and pose as little risk to the community as possible					
1.1 The Village will develop and distribute dam safety information to owners of unclassified dams so they are aware of safety needs associated with structures located on their property.					
36	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
1.2 The Village will ensure that evacuation plans for the wastewater treatment lagoon are actionable, accurate, and available to affected populations and first responders in the designated area so that an efficient and effective evacuation could take place if necessary.					
35	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
1.3 The Village will develop and implement an actionable method of communicating imminent dam incidents to the affected population to facilitate rapid protective action implementation.					
34	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 2 – Drought/Extreme Heat: Wakeman will assess the reliability of water supplies during drought and extreme heat.					
2.1 The Village will develop local public-private partnerships capable of supplying adequate potable water to the village if water treatment systems experience outages or distribution interruptions during dry spells.					
41	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
2.2 The Village will implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient, especially in areas where water is obtained through wells.					
42	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
2.3 The Village will work with the fire department to support capabilities to fight rural fires like field and barn fires in periods of extremely dry conditions through rural water supply management, installation of dry hydrants in ponds, extension of regular hydrants and water distribution lines to rural areas, and acquisition/maintenance of water hauling apparatus.					
40	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC AFG
Goal 3 - Earthquake: Wakeman will assess damage potential from earthquakes and establish a safety plan for residents.					
3.1 The Village will assess the damage potential through a survey of structures in the village and will identify the safest local area for sheltering after an incident for occupants of those structures.					
43	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 4 – Flood: Wakeman will work to lessen flooding, loss of life or injury, and property damage from flooding in all areas of The Village.					
4.1 The Village will maintain participation in NFIP to facilitate maximum understanding of and prevention of flood concerns and provide an array of insurance alternatives to property owners.					
21	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC
4.2 The Village will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
22	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC
4.3 The Village will require structurally engineered flood prevention measures for new development and re-development including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.					
27	Structurally Engineered Projects	Village Administrator	01/01/2019	12/31/2023	PDM, FMA, HMGP, ICC
4.4 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.					
23	Prevention	Village Administrator	01/01/2019	12/31/2023	PDM, RFC, SRL
4.5 The Village will clear debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment, to facilitate natural drainage.					
24	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC
4.6 The Village will collaborate with watershed organizations, conservancy groups, conservation organizations, and the county engineer to maintain, clean, and improve ditches, streams, creeks, and rivers in the village.					
26	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC
4.7 The Village will maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate and will assist to fill gaps in capabilities or resolve inconsistencies where possible.					
25	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC, Other
4.8 The Village will work to repair streets that are damaged by the effects of flash flooding.					
28	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
4.9 The Village will use elevation to remove bridges, culverts, equipment, pump stations, and other structures or devices from flood waters that impede function.					
29	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC; HMGP; PDM; FMA
Goal 5 – Hazardous Materials Incident: Wakeman 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.					
5.1 The Village will work to improve signage and traffic directional indicators on village streets as a way to prevent collisions involving vehicles carrying hazardous substances and will work with ODOT to do the same on state highways inside the village.					

Priority	Action Type	Lead	Start Date	End Date	Funding
18	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
5.2 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
14	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
5.3 The Village will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the village so that the appropriate reporting of hazardous and extremely hazardous materials stored or used is done in an accurate and timely fashion, and so that reports of spills and releases are done in a prompt and accurate manner.					
17	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
5.4 The Village will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner, and so that any spills or releases are promptly and thoroughly cleaned up and disposed of in a proper way.					
15	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, Other
5.5 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					
16	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 6 – Invasive Species: Wakeman 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.					
6.1 The Village will work to clear public property of dead or diseased trees that have been affected by invasive species.					
38	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
6.2 The Village will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris to be scattered and will identify a source of funding for this debris collection.					
37	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
6.3 The Village will monitor and communicate new invasive species threats to residents in support of proactive measures to prevent the rapid and proliferous spread of plant or animal disease.					
39	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 7 – Severe Thunderstorm and Windstorm: Wakeman will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
7.1 The Village will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in residential, agricultural and commercial construction, renovation, and maintenance.					
8	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ICC

Priority	Action Type	Lead	Start Date	End Date	Funding
7.2 The Village will support the development of community storm centers and safe areas to serve as community-based hubs for information, coordination, and communication during storm response and recovery, and will communicate with these centers to relay important response and recovery information to residents.					
3	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
7.3 The Village will encourage the location of mobile homes in mobile home parks across the village so that sheltering and other needs can be more reasonably provided by property owners and communities, and will support their grant applications for protective safe rooms and structures.					
2	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC; PDM
7.4 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property, and will work to help residents have access to flood insurance information and availability.					
7	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
7.5 The Village will promote the continuation, improvement, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
4	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
7.6 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
5	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC ICC
7.7 The Village will work to support development standards which require underground installation of electric lines in new subdivisions and appropriate commercial or industrial neighborhoods.					
6	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
7.8 The Village will acquire or upgrade generators to power crucial services during power outages, including shelters, pump stations, and public safety and administration buildings, especially on village properties.					
1	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC PDM HSGP
Goal 8 – Tornado: Wakeman will reduce the damages suffered from tornadoes.					
8.1 The Village will support the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.					
9	Property Protection	Village Administrator	01/01/2019	12/31/2023	PDM, HMGP
8.2 The Village will support grant applications for the development of public safe areas and storms shelters for rural residents of mobile homes, homes without basements, transient person in the village, areas where groups of individuals gather, and others who need shelter during tornadoes or other severe weather events.					
10	Property Protection	Village Administrator	01/01/2019	12/31/2023	PDM, HMGP
8.3 The Village will ensure that agreements exist for sheltering residents when homes are unlivable due to severe storms, tornadoes, and evacuations.					

Priority	Action Type	Lead	Start Date	End Date	Funding
11	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
8.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
13	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
8.5 The Village will support the implementation of systems that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt countywide.					
12	Public Information	Village Administrator	01/01/2019	12/31/2023	LOC
Goal 9 – Water Quality: Wakeman 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.					
9.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
30	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
9.2 The Village will support improvements to water treatment systems that enhance the ability to detect and treat harmful contaminants.					
31	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
9.3 The Village will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
32	Prevention	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
9.4 The Village will work with residents and businesses to identify any contribution to the contamination of the water supply through nutrient runoff or other disposal practices, and to facilitate cooperation between all entities in the effort to preserve and protect natural resources.					
33	Natural Resource Protection	Village Administrator	01/01/2019	12/31/2023	LOC, ST, Other
Goal 10 – Winter Storms: Wakeman will lessen damages suffered from severe winter storms and blizzards.					
10.1 The Village will work to plow and clear village-maintained streets to facilitate emergency traffic, necessary travel, and business access.					
19	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC
10.2 The Village will work with residents to establish windbreaks that decrease the drifting of snow, and will work with them to establish windbreaks to prevent some drifting on village streets.					
20	Property Protection	Village Administrator	01/01/2019	12/31/2023	LOC

3.3.8 Willard

In Willard, the City Manager will be the primary official who monitors progress on the identified mitigation strategies and will coordinate with appropriate city departments and staff to carry out mitigation activities. While most mitigation strategies will likely be funded through the city's budget, state and federal grants will be sought to fund projects when possible.

Table 3-10: Willard Mitigation Strategies

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam Failure: Willard will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible					
1.1 The City will advocate that safety plans are in place for all classified dams and reservoirs that include accurate inundation areas and evacuation plans.					
34	Prevention	City Manager	01/01/2019	12/31/2023	LOC
1.2 The City will ensure that evacuation plans for Class I dams are actionable, accurate, and available to affected populations and first responders in the designated area so that an efficient and effective evacuation could take place if necessary.					
35	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
1.3 The City will develop and implement an actionable method of communicating imminent dam incidents to the affected population to facilitate rapid protective action implementation.					
36	Public Information	City Manager	01/01/2019	12/31/2023	LOC
Goal 2 – Drought/Extreme Heat: Willard will assess the reliability of water supplies during drought and extreme heat.					
2.1 The City will develop plans to supply adequate potable water to the community if the water treatment system experiences outages or distribution interruptions during dry spells.					
21	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
2.2 The City will develop appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient.					
22	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
2.3 The City will support capabilities to fight field and barn fires in periods of extremely dry conditions through rural water supply management, extension of regular hydrants and water distribution lines to rural areas, and maintenance of water hauling apparatus.					
23	Property Protection	City Manager	01/01/2019	12/31/2023	LOC AFG
Goal 3 - Earthquake: Willard will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The City will assess the damage potential through a survey of structures in the city and determine the safest local area for sheltering after an incident for occupants of those structures.					
40	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
3.2 The City will collect data about at-risk structures and sheltering capabilities in the city.					
41	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
Goal 4 – Flood: Willard will work to lessen flooding, loss of life or injury, and property damage from flooding in all areas of the City.					
4.1 The City will maintain participation in NFIP to facilitate maximum understanding and prevention of flood concerns and provide an array of insurance alternatives to property owners.					
24	Prevention	City Manager	01/01/2019	12/31/2023	LOC

Priority	Action Type	Lead	Start Date	End Date	Funding
4.2 The City will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
25	Prevention	City Manager	01/01/2019	12/31/2023	LOC
4.3 The City will enforce existing planning and zoning regulations.					
26	Structurally Engineered Projects	City Manager	01/01/2019	12/31/2023	PDM, FMA, HMGP, ICC
4.4 The City will identify, acquire, and demolish repetitive loss properties in conjunction with the Huron County Land Bank as funding permits.					
27	Prevention	City Manager	01/01/2019	12/31/2023	PDM, RFC, SRL
4.5 The City will maintain and clear debris from waterways, including lawn and crop fodder, dead/diseased trees, animal-created obstructions like dams built by beavers, and excess sediment to facilitate natural drainage.					
28	Property Protection	City Manager	01/01/2019	12/31/2023	LOC, ICC
4.6 The City will work to help residents and businesses understand watershed in Willard and improve their collaboration and cooperation with watershed and conservancy groups through an increased understanding of watershed management practices.					
29	Natural Resource Protection	City Manager	01/01/2019	12/31/2023	LOC
4.7 The City will endeavor to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and where appropriate and will assist in improving capabilities where possible.					
30	Property Protection	City Manager	01/01/2019	12/31/2023	LOC, ICC, Other
4.8 The City will continue the use of temporary signs to mark flooded streets and areas in an effort to make the city safer during floods.					
31	Public Information	City Manager	01/01/2019	12/31/2023	LOC
4.9 The City will work to repair streets that are damaged by the effects of flash flooding.					
32	Property Protection	City Manager	01/01/2019	12/31/2023	LOC, ST, Other
Goal 5 – Hazardous Materials Incident: Willard 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.					
5.1 The City will work with state, federal, and other local entities to maximize the development and use of truck routes that avoid highly populated residential areas, highly vulnerable facilities such as schools and hospitals, and other areas where a release of hazardous cargo would endanger lives and property.					
12	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
5.2 The City will facilitate first responder training to insure rapid and effective response to incidents.					
13	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
5.3 The City will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner, and so that any spills or releases are promptly and thoroughly cleaned up and disposed of.					
14	Property Protection	City Manager	01/01/2019	12/31/2023	LOC, Other
Goal 6 – Invasive Species: Willard 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.					

Priority	Action Type	Lead	Start Date	End Date	Funding
6.1 The City will work to clear public property of dead or diseased trees that have been affected by invasive species.					
37	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
6.2 The City will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris.					
38	Public Information	City Manager	01/01/2019	12/31/2023	LOC
6.3 The City will monitor and communicate new invasive species threats to the public in support of proactive measures to prevent the rapid and proliferous spread of plant or animal disease.					
39	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
Goal 7 – Severe Thunderstorm and Windstorm: Willard will lessen the damages suffered from windstorms or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
7.1 The City will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in residential, agricultural and commercial construction, renovation, and maintenance.					
1	Property Protection	City Manager	01/01/2019	12/31/2023	LOC, ICC
7.2 The City will support the development of community storm centers and safe areas to serve as community-based hubs for information, coordination, and communication during storm response and recovery and will communicate with these centers to relay important response and recovery information.					
2	Public Information	City Manager	01/01/2019	12/31/2023	LOC
7.3 The City will encourage mobile homes to be located in mobile home parks so that safe rooms can be provided and the city will support their grant applications for protective safe rooms.					
3	Property Protection	City Manager	01/01/2019	12/31/2023	LOC; PDM
7.4 The City will advocate that all property owners carry adequate and appropriate insurance to cover relevant hazards that may damage their property and will work to help residents have access to flood insurance information and availability.					
4	Public Information	City Manager	01/01/2019	12/31/2023	LOC
7.5 The City will promote the continuation, improvement of, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, weather radios, wireless notification options, social media warnings, reverse 9-1-1, opt-in notification systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
5	Public Information	City Manager	01/01/2019	12/31/2023	LOC, ST, Other
7.6 The City will identify locations where transient populations, outdoor workers, populations who do not use electricity or telecommunications, or other visitors may be located and how they might be reached with timely warnings and notifications.					
6	Public Information	City Manager	01/01/2019	12/31/2023	LOC
7.7 The City will continue to work with railroads in the area to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and maintain access to all areas of their coverage areas.					
7	Public Information	City Manager	01/01/2019	12/31/2023	LOC, Other
7.8 The City will work to support development standards that require underground installation of electric lines in subdivisions and appropriate commercial or industrial neighborhoods.					
8	Property Protection	City Manager	01/01/2019	12/31/2023	LOC, Other
7.9 The City will maintain adequate generators to power crucial services during power outages, including shelters, pump stations, school buildings, school and church buildings that serve as shelters for the public, and public safety and administration buildings, especially on city-owned or used properties.					
9	Property Protection	City Manager	01/01/2019	12/31/2023	LOC, Other

Priority	Action Type	Lead	Start Date	End Date	Funding
Goal 8 – Tornado: Willard will reduce the damages suffered from tornadoes.					
8.1 The City will support grant applications for and the development of safe rooms for single and multi-family residential structures, including support of safe room grant opportunities.					
15	Property Protection	City Manager	01/01/2019	12/31/2023	PDM, HMGP
8.2 The City will support grant applications for the development of or capital improvements to areas that serve as public safe areas and storm shelters for residents of mobile homes, homes without basements, schools and public auditoriums that are used for public events and service centers, transient populations, areas where groups of individuals gather, and others who need shelter during tornadoes or other severe weather events.					
16	Property Protection	City Manager	01/01/2019	12/31/2023	PDM, HMGP
8.3 The City will pursue agreements for sheltering residents when homes are unlivable due to severe storms, tornadoes, and evacuations.					
17	Public Information	City Manager	01/01/2019	12/31/2023	LOC
8.4 The City will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
18	Public Information	City Manager	01/01/2019	12/31/2023	LOC
8.5 The City will support the implementation of communication systems that enable communication between responders across the city in a multi-jurisdictional and multi-discipline setting, ensuring that responders can effectively communicate with one another during an incident where effects are felt countywide.					
19	Public Information	City Manager	01/01/2019	12/31/2023	LOC
Goal 9 – Water Quality: Willard 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.					
9.1 The City will maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
33	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
Goal 10 – Winter Storms: Willard will lessen damages suffered from severe winter storms and blizzards.					
10.1 The City will work to plow and clear city-maintained roadways to facilitate emergency traffic, necessary travel, and business access.					
10	Property Protection	City Manager	01/01/2019	12/31/2023	LOC
10.2 The City will encourage residents to establish windbreaks that decrease the drifting of snow to prevent some drifting of roadways.					
11	Property Protection	City Manager	01/01/2019	12/31/2023	LOC

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 any given strategy to become an actionable item, it must be converted to a specific project with funding, action steps, timelines, and project goals. For example, if a repetitive loss property is to be acquired and demolished and the property owner relocated, that project must begin with the identification of the specific property to be acquired and the funding to be utilized 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 that reduce disaster loss in Huron County.

The EMA will monitor the implementation of these grant-based strategies through ongoing communication with officials and stakeholders. When grant opportunities arise, 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 actionable steps taken to complete the project. Upon completion, effectiveness will be evaluated by the jurisdiction and findings shared with the EMA and planning team for consideration in developing future projects.

The greatest value in these strategies is the process, knowledge, and reasoning stakeholders utilized during their development. The mitigation planning process required stakeholders to collaborate to evaluate hazards and risks in their community. They were required to examine the local community, predict where and under what conditions damages would occur, and identify how to reduce or eliminate potential damages. The solutions, 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 the community was appropriately represented in the planning process.

Ultimately, Huron County developed a set of comprehensive, thoroughly considered, relevant, and effective solutions to problems that are likely to arise. As stakeholders considered how to solve potential problems, they utilized a collaborative spirit to address community-wide problems. These strategies were original thoughts to reduce disaster vulnerability and loss at the local level.

Given the availability of funding, personnel, and support, Huron County and its jurisdictions are positioned to move forward and implement these strategies to the best of their ability to accomplish their goals. Whatever mitigation activities are achieved will be well thought out, logical, and reasonable because of the community-wide hazard mitigation planning process.