

SECTION 3: MITIGATION STRATEGIES

As Mercer County’s planning team and stakeholders developed mitigation goals and strategies for the county, their intention was to address each jurisdiction’s specific risks and vulnerabilities. The goals and strategies in this section reflect each jurisdiction’s hazard analysis and risk priorities. While some strategies are similar from jurisdiction to jurisdiction, stakeholders in each community expressed their unique circumstances and crafted strategies to address their specific issues. The result is a set of comprehensive mitigation goals and strategies that address the needs of Mercer County and each jurisdiction.

3.1 STATUS OF PAST MITIGATION EFFORTS

The 2017 Mercer County Hazard Mitigation Plan included mitigation goals and strategies for each jurisdiction. As part of the 2022 planning process, stakeholders from each jurisdiction assessed the status of the 2017 strategies. Table 3-1 identifies the status of each mitigation strategy based on the classifications listed below.

- Complete: all necessary work is complete
- Deferred: determined to not be feasible or appropriate at this time; removed from consideration
- Ongoing: work has not been achieved in its entirety; more activity is necessary to complete this action
- Unchanged: action is still necessary, but no progress has been made at this time

Strategies listed as ongoing or unchanged have been included in the 2022 strategies. Those identified as completed or deferred have been removed from the updated plan and an explanation for the change is listed in the table below.

Table 3-1: 2017 Mercer County Mitigation Strategy Status

Strategy					Explanation
	Complete	Defer	Ongoing	Unchanged	
MERCER COUNTY					
1.1				X	
1.2				X	
1.3			X		
1.4			X		
2.1				X	
2.2			X		
2.3			X		
2.4				X	
2.5				X	

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Strategy	Complete	Defer	Ongoing	Unchanged	Explanation
2.6			X		
2.7				X	
2.8				X	
2.9			X		
2.10				X	
2.11				X	
2.12				X	
2.13				X	
2.14				X	
3.1				X	
3.2				X	
3.3				X	
3.4				X	
3.5				X	
4.1				X	
4.2				X	
4.3				X	
5.1				X	
5.2				X	
5.3				X	
5.4				X	
5.5				X	
5.6				X	
5.7				X	
5.8				X	
5.9				X	
6.1				X	
6.2				X	
6.3			X		
6.4				X	
6.5				X	
BURKETTSTVILLE					
1.1				X	
1.2				X	
1.3			X		
2.1				X	
2.2				X	
2.3				X	
2.4				X	
2.5			X		
2.6				X	

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Strategy	Complete	Defer	Ongoing	Unchanged	Explanation
2.7				X	
2.8				X	
3.1				X	
4.1				X	
4.2				X	
5.1				X	
5.2				X	
6.1				X	
6.2				X	
CELINA					
1.1			X		
1.2			X		
1.3				X	
1.4			X		
2.1				X	
2.2				X	
3.1	X				Work is considered complete by jurisdiction officials.
3.2				X	
3.3	X				Work is considered complete by jurisdiction officials; affected trees have been removed.
3.4	X				Work is considered complete by jurisdiction officials; plan is in place.
3.5	X				Work is considered complete by jurisdiction officials.
4.1			X		
4.2			X		
4.3				X	
4.4			X		
4.5			X		
4.6				X	
4.7			X		
4.8			X		
4.9				X	
4.10				X	
5.1				X	
6.1			X		
6.2			X		
CHICKASAW					
1.1			X		
1.2				X	
2.1				X	
2.2				X	

Strategy	Complete	Defer	Ongoing	Unchanged	Explanation
3.1				X	
3.2		X			Strategy is not applicable to jurisdiction.
3.3				X	
3.4				X	
3.5				X	
4.1			X		
4.2				X	
4.3			X		
4.4				X	
5.1				X	
5.2				X	
5.3				X	
5.4			X		
5.5			X		
5.6				X	
5.7				X	
6.1				X	
COLDWATER					
1.1			X		
1.2			X		
1.3			X		
1.4				X	
1.5		X			Jurisdiction identified action as a county strategy.
1.6				X	
1.7				X	
1.8				X	
1.9				X	
1.10				X	
2.1			X		
2.2				X	
2.3			X		
2.4				X	
3.1				X	
3.2				X	
4.1	X				Jurisdiction considers work on this strategy complete.
4.2	X				Jurisdiction considers work on this strategy complete; diseased trees are removed.
4.3	X				Jurisdiction considers work on this strategy complete.
4.4				X	
5.1			X		
6.1			X		

Strategy	Complete	Defer	Ongoing	Unchanged	Explanation
6.2	X				Jurisdiction considers work on this strategy complete.
FORT RECOVERY					
1.1				X	
1.2				X	
1.3			X		
1.4			X		
1.5				X	
1.6			X		
1.7			X		
1.8				X	
1.9				X	
1.10			X		
1.11				X	
1.12				X	
1.13				X	
2.1			X		
2.2				X	
2.3			X		
2.4				X	
3.1				X	
3.2				X	
4.1				X	
4.2				X	
4.3				X	
4.4			X		
5.1			X		
5.2	X				Jurisdiction considers this strategy complete; diseased trees have been removed.
5.3			X		
5.4				X	
6.1				X	
MENDON					
1.1			X		
1.2				X	
1.3				X	
1.4				X	
2.1			X		
2.2				X	
3.1			X		
3.2				X	
3.3				X	

Strategy	Complete	Defer	Ongoing	Unchanged	Explanation
3.4				X	
4.1			X		
4.2				X	
4.3				X	
4.4			X		
4.5				X	
4.6				X	
4.7				X	
4.8	X				Jurisdiction considers work on this strategy complete.
5.1				X	
6.1				X	
6.2				X	
MONTEZUMA					
1.1				X	
1.2			X		
1.3				X	
1.4				X	
2.1			X		
2.2		X			Defer to county; strategy is not applicable to jurisdiction because there are no dams in the village.
2.3				X	
2.4				X	
2.5		X			Defer to county; jurisdiction does not consider strategy applicable.
2.6				X	
2.7				X	
2.8				X	
2.9			X		
2.10			X		
2.11		X			Defer to county; jurisdiction does not consider strategy applicable.
2.12				X	
2.13		X			Defer to county; jurisdiction does not consider strategy applicable.
2.14				X	
3.1				X	
3.2		X			Defer to county
4.1		X			Defer to county
4.2				X	
4.3				X	
5.1				X	
5.2				X	
5.3		X			Defer to county
6.1		X			Defer to county

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Strategy	Complete	Defer	Ongoing	Unchanged	Explanation
ROCKFORD					
1.1			X		
1.2				X	
1.3			X		
1.4				X	
1.5				X	
1.6				X	
1.7				X	
1.8			X		
1.9			X		
1.10			X		
2.1				X	
2.2			X		
2.3			X		
2.4			X		
3.1			X		
3.2		X			Defer to county
3.3		X			Defer to county
4.1		X			Defer to county
4.2				X	
4.3				X	
4.4		X			Defer to county
5.1			X		
5.2			X		
5.3			X		
6.1			X		
ST. HENRY					
1.1				X	
1.2			X		
1.3				X	
1.4			X		
1.5			X		
1.6			X		
1.7				X	
1.8				X	
1.9				X	
1.10			X		
2.1				X	
2.2			X		
2.3			X		
2.4				X	

Strategy	Complete	Defer	Ongoing	Unchanged	Explanation
3.1			X		
3.2				X	
4.1				X	
5.1			X		
5.2			X		
5.3				X	
5.4				X	
6.1				X	

3.2 RISK PRIORITIES

The Hazard Identification and Risk Assessment (HIRA) explains the identification of hazards and evaluation of risks in Mercer County. The HIRA considers numerous natural, human-caused, and technological hazards, cites the historical frequency and severity of past incidents, and considers the damages that would occur should that type incident strike a jurisdiction within Mercer County. Based on this assessment, the planning team ranked the hazards and risks for Mercer County according to the list on page 2-74 of the HIRA. This ranking was used to develop and prioritize the mitigation strategies presented in this section. Because stakeholders from each jurisdiction were involved in establishing the priorities, there is some variation between communities. In general, the following information was used in prioritizing risks and strategies:

Tornado/Windstorm

Mercer County’s most concerning threat is tornadoes and excessive wind. Because of the county’s flat terrain and the number of trees and wooded areas, exposure to high wind and the poor condition of many trees makes wind extremely threatening. The significant number of structures vulnerable to wind damage is significant and includes conventionally roofed residential and commercial structures, grain bins, legs and elevators, and many older buildings like barns, homes, and churches. The county has also been impacted by several devastating tornadoes in the last five years. These incidents have caused millions of dollars in damage and multiple deaths. As a result, the community is very concerned about tornado and wind events. Strategies for wind focus on elimination of debris potential, hardening of utility distribution systems, and use of wind-resistant building materials and wind-wise construction practices.

Flood

Flooding is the second major concern and includes riverine and flash flooding. Some of the county’s primary waterways flood under heavy rain or combined precipitation and snowmelt conditions. Beaver Creek, Coldwater Creek, St. Marys River, and Wabash River can all breach their banks, flooding farmland, crops, roads and bridges, and some homes. When the

precipitation is rapid and sewers or natural runoff cannot keep up with the pace of the rainfall, then streets and homes in settlements and municipalities flood. Crop fodder and sediment can wash into the drainage systems and clog storm sewers, making drainage a challenge in the villages at some times during the year. Although the county has conducted mitigation work on several repetitive loss properties, several of these remain in a high-risk flood area. Most flooding is short-term because Mercer County sits at relatively high elevations in all the watersheds, so water drains in a reasonably short period of time. However, at times, it can leave a path of destruction as its legacy. Strategies for flooding focus on structural options such as retention and detention of water, elevation of structures, and water management systems and practices. Land use regulation is used to prevent unwise construction inside flood zones. Actions can also include facilitation of drainage through system improvements and waterway maintenance. Acquisition projects are a likely solution for some structures.

Winter Storm

Winter storms are disruptive and expensive. At their worst, they cause roads to be impassible and create major access problems for livestock and agriculture businesses across the county. Winter storms that include ice can lead to extensive power outages, bringing all commercial activity, including livestock production, to a halt. These storms also include risks for high winds and heavy snowfall. Winter weather strategies focus on enhancing capacity to maintain clear roads and strengthening utility and transportation infrastructure.

Infrastructure-Utility Systems

Utility system failure was prioritized by the planning team because these systems provide critical services to residents and businesses. If utility systems are non-functional for very long, the community can suffer greatly. If these systems are resilient and reliable, the community can withstand many other disasters or negative events. Therefore, the planning team prioritized strengthening utility systems, including upgrades and repairs or, when necessary, system replacement.

Severe Thunderstorm

While severe thunderstorms do not frequently cause widespread damage, the potential for multiple hazards to occur increases the risk. Planning team members felt that the combined potential for damage from wind, precipitation, hail, and lightning was a significant risk for the community and developed strategies that focused on communication and public information to increase the community's awareness and preparedness for these types of events.

The strategies in this plan are intended to provide general options to lessen the vulnerabilities in Mercer County. During the planning process, the planning team and stakeholders determined what hazards strike most frequently, which cause the most disruption, and which consequences feasibly can be prevented or lessened. Because of the county's history with the five hazards below and the potential for damage, the planning team focused most mitigation strategies on these areas. The planning team considered cost and funding opportunities, actual benefit to the community, prevention of loss of life, and overall feasibility. The planning team

attempted to identify the incidents that might realistically impact their community. These goals and strategies are an outcome of that assessment.

3.3 IMPLEMENTATION

The identified mitigation strategies are general actions that could be taken to reduce the negative impact of disasters and large-scale emergencies. For a strategy to become an actionable item, it must be converted to a specific project with funding, action steps, timelines, and project goals. For example, 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 Mercer County.

The EMA will monitor the implementation of these 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 analyze 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 represented in the planning process.

Ultimately, Mercer County developed a set of comprehensive, 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, Mercer 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.

3.4 MITIGATION GOALS AND STRATEGIES

Planning Team members and stakeholders worked by jurisdiction and collaboratively as a county to develop appropriate mitigation goals and strategies. Draft strategies were developed based on the input provided by the stakeholders and presented to the planning team and community for public review and comment. Strategies were revised accordingly to finalize the mitigation goals and strategies presented in this section. Strategies for specific jurisdictions vary from the countywide in priority of the problem and the potential solution.

Each strategy developed was assigned a priority, status, action type, funding source, project lead, and timeline, as described below. While these specific details may change prior to implementation of a strategy, the exercise of developing this information required stakeholders to consider the resources, staffing, and funding that would be necessary to implement mitigation strategies.

Priority

Priority identifies the order of importance jurisdictions assigned to each strategy. Strategies may not be addressed in this exact order, depending on availability of funds and other circumstances.

Status

Status identifies if the strategy is new to this mitigation plan or a strategy that was carried over from the previous plan.

- New: Strategy is new to the mitigation plan.
- Ongoing: Strategy is carried over from the previous mitigation plan but may be revised to better reflect the current need. Work has not been achieved in its entirety; more activity is necessary to complete this action.
- Unchanged: Strategy is carried over from the previous mitigation plan with no changes. The action is still necessary, but no progress has been made at this time.

Action Type

Action type describes the kind of activity described in the strategy.

- 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– Lessen the impact of a hazard by modifying the environment or progression of the hazard event through designed and engineered projects

Funding Source

Mitigation strategies can be funded through a variety of sources. Depending on the type and cost of the project, different funding sources will be available and appropriate. Each strategy identifies potential funding sources based on this list:

- HMA – Hazard Mitigation Assistance grants (includes HMPG, FMA, PDM, BRIC, and other federal mitigation grants)
- EMPG – Emergency Management Performance Grant
- HSGP – Homeland Security Grant Program
- ICC – Increased Cost of Compliance (including rate increases or premiums)
- Local – Local Funds
- State – State Funds (including Community Development Block Grants, Clean Ohio Grants, and other state funding source)
- Other– Other (including private funds and non-governmental agency funding)

Project Lead

The project lead is the individual or agency charged with championing the strategy and ensuring that jurisdiction officials look for opportunities to complete the strategy over the five-year planning cycle. The lead is responsible for coordinating the overall effort and/or is the entity most appropriate to lead project development at the initial state but may not necessarily be responsible for project oversight or completion should the strategy develop into an actionable and funded project.

Timeline

The timeline identifies the time frame 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.

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
MERCER COUNTY									
GOAL 1: MERCER COUNTY WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Unchanged	County 1.1	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	1	Property Protection	Local		EMA Director	3/1/2022	3/1/2027
Unchanged	County 1.2	Advocate, support, and implement (on county property), the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	2	Natural Resource Protection	Local	0	County Commissioners	3/1/2022	3/1/2027
Ongoing	County 1.3	Implement a program to clear debris from urban and rural areas after severe wind and flooding events to prevent crop fodder and other debris from affecting water treatment plants, sewers, and other infrastructure, and keep transportation routes open and accessible.	3	Property Protection	Local	0	County Commissioners	3/1/2022	3/1/2027
Ongoing	County 1.4	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	4	Prevention	Local	0	Regional Planning Chair	3/1/2022	3/1/2027
GOAL 2: MERCER COUNTY WILL REDUCE DAMAGES FROM FLOODING.									
Unchanged	County 2.1	Utilize acquisition, demolition, and relocation programs for properties that suffer repetitive flood loss and/or experience repeated damage from all types of flooding.	5	Prevention	Local; HMA	0	EMA Director	3/1/2022	3/1/2027
Ongoing	County 2.2	Participate in NFIP and other federal flood mitigation programs that help the county reduce losses attributable to flooding and regularly review flood maps through a process of public engagement to assure accuracy as necessary.	6	Prevention	Local	0	Floodplain Manager	3/1/2022	3/1/2027
Ongoing	County 2.3	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate appropriate development, especially in areas vulnerable to flooding.	7	Prevention	Local	0	Regional Planning Chair	3/1/2022	3/1/2027
Unchanged	County 2.4	Advocate that tenants and property owners maintain reasonable casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	8	Prevention	Local	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 2.5	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	9	Prevention	HMA	0	EMA Director	3/1/2022	3/1/2027
Ongoing	County 2.6	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural drainage.	10	Structurally Engineered	Local; HMA; Other	0	Regional Planning Chair	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	County 2.7	Maintain or replace, as needed, water control structures and systems, such as wastewater pumping stations, generators, water pumps, and other structures.	11	Structurally Engineered	Local	0	County Sanitary Superintendent	3/1/2022	3/1/2027
Unchanged	County 2.8	Maintain or replace, as needed, water control structures and systems, such as storm sewers, dams, and other structures that control watershed and/or protect specific areas from flooding.	12	Structurally Engineered	Local; Other	0	County Engineer	3/1/2022	3/1/2027
Ongoing	County 2.9	Clear county-maintained ditches of debris, sediment, and other obstructions that impede drainage.	13	Natural Resource Protection	Local	0	County Engineer	3/1/2022	3/1/2027
Unchanged	County 2.10	Advocate for study of the impact of potential dam failure, including consideration of dam height, elevation of bodies of water, floodgate management and other maintenance factors by the owner of the dam.	14	Prevention	Local; State	0	County Engineer	3/1/2022	3/1/2027
Unchanged	County 2.11	Study countywide watershed and storm runoff to improve storm water practices that protect property and reduce damages from flooding.	15	Structurally Engineered	Local	0	SWCD Director	3/1/2022	3/1/2027
Unchanged	County 2.12	Elevate structures (buildings, roads, bridges, culverts, etc.) and create buffer zones to contain floodwater where other means are ineffective, too costly, or not feasible.	16	Structurally Engineered	Local	0	County Engineer	3/1/2022	3/1/2027
Unchanged	County 2.13	Encourage individuals to mitigate personal flood loss through the use of simple prevention measures like sandbagging or not building on property that floods.	17	Prevention	Local	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 2.14	Consider improvements to roads such as increased bridge spans and elevation, repair of berms, maintenance of bridge slopes and protection of roadways from flooding.	18	Structurally Engineered	Local	0	County Engineer	3/1/2022	3/1/2027
GOAL 3: MERCER COUNTY WILL REDUCE DAMAGES FROM ALL SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Unchanged	County 3.1	Expand the availability of road signs to identify dangerous road conditions like flooding, washouts, and other damages from storms.	19	Property Protection	Local	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 3.2	Expand and improve the county's public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	20	Public Information	Local; HSGP; EMPG	0	County Engineer	3/1/2022	3/1/2027
Unchanged	County 3.3	Develop and implement a program to assist in the removal of dead or diseased trees along county maintenance waterways and roadways that have been affected by Emerald Ash Borer and other invasive species.	21	Natural Resource Protection	Local	0	County Engineer	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	County 3.4	Advocate for the agriculture industry to have emergency preparations in place and access to generators and other critical resources during extended power outages, to goods and services that are unique to livestock disease or infestation incidents, to services and supplies used in repair of specialized farm equipment damaged by storms and wind, and to other measures needed after disasters.	22	Property Protection	Local	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 3.5	Develop methods for the agriculture community to collaborate with appropriate agencies immediately after storms to identify storm caused consequences, such as excessive runoff and downstream flooding, manure management challenges, grain and chemical storage issues, equipment and commodity damages, and livestock casualties.	23	Property Protection	Local	0	EMA Director	3/1/2022	3/1/2027
GOAL 4: MERCER COUNTY WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Unchanged	County 4.1	Encourage collaboration between all levels of government and private contractors to clear roads and maintain utilities sure and after severe weather, especially ice, snow and floods to protect livestock operations from disaster related losses.	24	Property Protection	Local	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 4.2	Advocate and encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	25	Structurally Engineered	Local; Private	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 4.3	Advocate for identification of redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	26	Property Protection	Local	0	EMA Director	3/1/2022	3/1/2027
New	County 4.4	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	County Commissioners	3/1/2022	3/1/2027
New	County 4.5	Ensure that high hazard and classified dams have appropriate emergency plans that identify inundation areas and facilitate emergency actions in the event of a failure.		Property Protection	Local	0	EMA Director	3/1/2022	3/1/2027
New	County 4.6	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		Structurally Engineered	Local; HMA; Other	0	County Commissioners	3/1/2022	3/1/2027
New	County 4.7	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	County Engineer	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
New	County 4.8	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures.		Property Protection	Local; HMA; Other	0	County Engineer	3/1/2022	3/1/2027
New	County 4.9	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	County Commissioners	3/1/2022	3/1/2027
GOAL 5: MERCER COUNTY WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Unchanged	County 5.1	Support and participate in (when feasible) efforts to maintain and clear county maintenance waterways of debris, excessive sediment, and other obstructions that prevent effective drainage.	27	Natural Resource Protection	Local	0	County Engineer	3/1/2022	3/1/2027
Unchanged	County 5.2	Participate in regional watershed management programs (when feasible) to create additional wetlands and reduce the use of phosphorus and nitrogen in agricultural, residential, and commercial settings.	28	Natural Resource Protection	Local	0	SWCD Director	3/1/2022	3/1/2027
Unchanged	County 5.3	Facilitate collaboration with farmers and agri-businesses to adopt conservation procedures that protect agricultural assets during and after severe storms, including land, facilities, crops, and other assets.	29	Property Protection	Local	0	SWCD Director	3/1/2022	3/1/2027
Unchanged	County 5.4	Encourage agricultural conservation processes that protect topsoil, slopes and waterway banks from wind or water erosion through the use of windbreaks, filter strips, cover crops, grassy buffers, tree lines, and other methods of preserving the soil.	30	Natural Resource Protection	Local	0	SWCD Director	3/1/2022	3/1/2027
Unchanged	County 5.5	Protect roadways from compromised structural integrity, washed away abutments and bridges, degraded berms, or other damage through stabilization and reinforcement techniques.	31	Property Protection	Local	0	County Engineer	3/1/2022	3/1/2027
Unchanged	County 5.6	Support agricultural practices that pertain to conservation efforts that replace old and damaged field tiles and replace them with contemporary structures; and that advocate for the appropriate and feasible use of cover crops, filter strips, conservation tillage, and tile control structures to limit the erosion of topsoil and protect slopes and waterway banks.	32	Natural Resource Protection	Local	0	SWCD Director	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	County 5.7	Improve the county ditch maintenance program to further improve the natural function of the watershed and to repair damage done to streams, creeks, and ditches by storms and floods.	33	Natural Resource Protection	Local	0	County Engineer	3/1/2022	3/1/2027
Unchanged	County 5.8	Develop a program to protect and preserve cemeteries in the county from damage by severe storms and floods.	34	Property Protection	Local	0	County Commissioners	3/1/2022	3/1/2027
Unchanged	County 5.9	Establish conservation procedures to be used during water emergencies or shortages.	35	Natural Resource Protection	Local	0	EMA Director	3/1/2022	3/1/2027
GOAL 6: MERCER COUNTY WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Unchanged	County 6.1	Develop a multi-part communication system to engage the community in protective action procedures, warnings and notifications, and other critical lifesaving information related to all disaster incidents when necessary.	36	Public Information	Local; HSGP; EMPG	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 6.2	Develop interoperable communication plans to coordinate life-saving efforts with community partners and others during severe storms and other disasters.	37	Public Information	Local; HSGP; EMPG	0	EMA Director	3/1/2022	3/1/2027
Ongoing	County 6.3	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local sources.	38	Public Information	Local; HSGP; EMPG	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 6.4	Develop, utilize and maintain a communications plan with the public to include mass media, social media, digital resources, and direct contact for emergency management information before, during, and after incidents that result from any hazard relevant to Mercer County.	39	Public Information	Local; HSGP; EMPG	0	EMA Director	3/1/2022	3/1/2027
Unchanged	County 6.5	Identify locations and establish agreements with owners for facilities to be used as community centers during evacuations, extended power outages, or other disasters for general community use or shelters. as needed.	40	Public Information	Local	0	EMA Director	3/1/2022	3/1/2027
BURKETTSTVILLE									
GOAL 1: BURKETTSTVILLE WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Unchanged	Burkettsville 1.1	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	1	Property Protection	HMA	0	Mayor	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Burkettsville 1.2	Implement a program to clear debris after severe wind and flooding to keep crop fodder and debris out of water treatment plants, sewers, and other infrastructure, and keep transportation routes open after storms.	2	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 1.3	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	3	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Ongoing	Burkettsville 1.4	Advocate, support, and implement (on village-owned property), the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	4	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
GOAL 2: BURKETTSTVILLE WILL REDUCE DAMAGES FROM FLOODING.									
Unchanged	Burkettsville 2.1	Join NFIP and will support other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	5	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 2.2	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	6	Structurally Engineered	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 2.3	Clear village-maintained ditches of debris, sediment, and other obstructions that impede drainage and watershed.	7	Natural Resource Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 2.4	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	8	Prevention	HMA; HSGP; EMPG	0	Mayor	3/1/2022	3/1/2027
Ongoing	Burkettsville 2.5	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate appropriate development, especially in areas with flood vulnerability.	9	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 2.6	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural watershed process.	10	Structurally Engineered	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 2.7	Utilize acquisition, demolition, and relocation programs for properties that suffer from repetitive flood damage or are continuously damaged by all types of flooding.	11	Prevention	HMA; HSGP; EMPG	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 2.8	Advocate that tenants and property owners maintain appropriate casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	12	Prevention	Local	0	Mayor	3/1/2022	3/1/2027

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
GOAL 3: BURKETTSVILLE WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Unchanged	Burkettsville 3.1	Expand and improve public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	13	Public Information	HSGP; EMPG; HMA	0	Mayor	3/1/2022	3/1/2027
GOAL 4: BURKETTSVILLE WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Unchanged	Burkettsville 4.1	Encourage hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	14	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 4.2	Establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	15	Property Protection	HMA	0	Mayor	3/1/2022	3/1/2027
New	Burkettsville 4.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	Burkettsville 4.4	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
GOAL 5: BURKETTSVILLE WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Unchanged	Burkettsville 5.1	Protect roadways from compromised structural integrity, washed away abutments and bridges, degraded berms, or other damage through stabilization and reinforcement techniques.	16	Structurally Engineered	HMA	0	Mayor	3/1/2022	3/1/2027
Unchanged	Burkettsville 5.2	Encourage agricultural conservation processes that protect topsoil, slopes and waterway banks from wind or water erosion through the use of windbreaks, filter strips, cover crops, grassy buffers, tree lines, and other methods of preserving the soil.	17	Natural Resource Protection	Local	0	Mayor	3/1/2022	3/1/2027
GOAL 6: BURKETTSVILLE WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Unchanged	Burkettsville 6.1	Develop, utilize and maintain a communications plan with the public to include mass media, social media, digital resources, and direct contact for emergency management information before, during, and after incidents that result from any hazard relevant to Mercer County.	18	Public Information	Local	0	Mayor	3/1/2022	3/1/2027

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Burkettsville 6.2	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	19	Public Information	Local; HSGP; EMPG	0	Mayor	3/1/2022	3/1/2027
CELINA									
GOAL 1: CELINA WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Ongoing	Celina 1.1	Advocate and support, and implement on city-owned property, the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	1	Property Protection	Local	0	Safety Service Director	3/1/2022	3/1/2027
Ongoing	Celina 1.2	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	2	Prevention	Local	0	Safety Service Director	3/1/2022	3/1/2027
Unchanged	Celina 1.3	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	3	Property Protection	HMA	0	Fire Chief	3/1/2022	3/1/2027
Ongoing	Celina 1.4	Implement a program to clear debris after severe wind and flooding to keep crop fodder and debris out of water treatment plants, sewers, transportation routes, and other infrastructure, and to keep roadways open and usable as soon as possible after storms.	4	Property Protection	Local	0	Safety Service Director	3/1/2022	3/1/2027
GOAL 2: CELINA WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Unchanged	Celina 2.1	Celina will encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	5	Prevention	Local	0	Safety Service Director	3/1/2022	3/1/2027
Unchanged	Celina 2.2	Celina will establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	6	Natural Resource Protection	Local	0	Safety Service Director	3/1/2022	3/1/2027
New	Celina 2.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Safety Service Director	3/1/2022	3/1/2027
New	Celina 2.4	Ensure that high hazard and classified dams have appropriate emergency plans that identify inundation areas and facilitate emergency actions in the event of a failure.		Property Protection	Local	0	Safety Service Director	3/1/2022	3/1/2027
New	Celina 2.5	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		Structurally Engineered	Local; HMA; Other	0	Safety Service Director	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
New	Celina 2.6	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Safety Service Director	3/1/2022	3/1/2027
New	Celina 2.7	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures.		Property Protection	Local; HMA; Other	0	Safety Service Director	3/1/2022	3/1/2027
New	Celina 2.8	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Safety Service Director	3/1/2022	3/1/2027
GOAL 3: CELINA WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Complete	Celina 3.1	Celina will establish conservation procedures to be used during water emergencies or shortages due to drought or contamination.	7	Natural Resource Protection	Local	0	Safety Service Director		
Unchanged	Celina 3.2	Expand and improve public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	8	Public Information	Local; EMPG; HSGP	0	Fire Chief	3/1/2022	3/1/2027
Complete	Celina 3.3	Celina will develop and implement a program to assist in the removal of dead or diseased trees along waterways and roadways that have been affected by Emerald Ash Borer and other invasive species.	9	Natural Resource Protection	Local	0	Safety Service Director		
Complete	Celina 3.4	Celina will develop, utilize and maintain a communications plan with the public to include mass media, social media, digital resources, and direct contact for emergency management information before, during, and after incidents that result from any hazard relevant to Mercer County.	10	Public Information	Local; EMPG; HSGP	0	Fire Chief		
Complete	Celina 3.5	Celina will identify and establish locations to be used as community centers during extended power outages or extreme conditions.	11	Public Information	Local	0	Fire Chief		
GOAL 4: CELINA WILL REDUCE DAMAGES FROM FLOODING.									
Ongoing	Celina 4.1	Participate in NFIP and other federal flood mitigation programs that help reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	12	Prevention	Local	0	Safety Service Director	3/1/2022	3/1/2027
Ongoing	Celina 4.2	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	13	Prevention	HMA	0	Safety Service Director	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Celina 4.3	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	14	Structurally Engineered	Local	0	Safety Service Director	3/1/2022	3/1/2027
Ongoing	Celina 4.4	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural drainage.	15	Structurally Engineered	Local	0	Safety Service Director	3/1/2022	3/1/2027
Ongoing	Celina 4.5	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	16	Property Protection	Local	0	Fire Chief	3/1/2022	3/1/2027
Unchanged	Celina 4.6	Utilize acquisition, demolition, and relocation programs for properties that suffer from repetitive loss or continuous damage from all types of flooding.	17	Prevention	HMA	0	Safety Service Director	3/1/2022	3/1/2027
Ongoing	Celina 4.7	Clear city-maintained ditches of debris, sediment, and other obstructions that impede drainage.	18	Natural Resource Protection	Local	0	Safety Service Director	3/1/2022	3/1/2027
Ongoing	Celina 4.8	Maintain dams and other water control structures to protect people and properties from consequences of structural failure.	19	Prevention	Local; State	0	Safety Service Director	3/1/2022	3/1/2027
Unchanged	Celina 4.9	Participate in regional efforts to reduce vulnerability to flood damages through collaboration including the creation of wetlands and reduction in the use of phosphorus and nitrogen on lawns and the resulting exacerbation of flood damages.	20	Prevention	Local	0	Safety Service Director	3/1/2022	3/1/2027
Unchanged	Celina 4.10	Encourage the use of simple prevention measures including the use of sandbags to prevent flooding.	21	Prevention	Local	0	Fire Chief	3/1/2022	3/1/2027
GOAL 5: CELINA WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Unchanged	Celina 5.1	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	22	Public Information	Local; HMGP; EMPG	0	Fire Chief	3/1/2022	3/1/2027
GOAL 6: CELINA WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Ongoing	Celina 6.1	Protect beaches, shorelines, and riverbanks from wind, water and other hazards that cause erosion or degradation through stabilization techniques like lining with rip-rap or large stone.	23	Structurally Engineered	Local; HMA	0	Safety Service Director	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Ongoing	Celina 6.2	Protect roadways from compromised structural integrity, washed away abutments and bridges, degraded berms, or other damage through stabilization and reinforcement techniques.	24	Natural Resource Protection	Local	0	Safety Service Director	3/1/2022	3/1/2027
CHICKASAW									
GOAL 1: CHICKASAW WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Ongoing	Chickasaw 1.1	Advocate, support, and implement (on village-owned property), the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	1	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 1.2	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	2	Property Protection	HMA	0	Mayor	3/1/2022	3/1/2027
GOAL 2: CHICKASAW WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Unchanged	Chickasaw 2.1	Establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	3	Prevention	Local; EMPG; HSGP	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 2.2	Encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	4	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
New	Chickasaw 2.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	Chickasaw 2.4	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavv precipitation.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	Chickasaw 2.5	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
GOAL 3: CHICKASAW WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Unchanged	Chickasaw 3.1	Establish conservation procedures to be used during water emergencies or shortages due to drought or contamination.	5	Natural Resource Protection	Local	0	Mayor	3/1/2022	3/1/2027
Defer	Chickasaw 3.2	Chickasaw will protect shorelines and riverbanks from wind, water and other hazards that cause erosion or degradation through stabilization techniques like lining with rip-rap or large stone.	6	Natural Resource Protection	Local; HMA	0	Mayor		

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Chickasaw 3.3	Protect waterways to reduce wind damage through conservation measures such as cover plants vegetation, grassy stream bottoms, filter strips, buffers, and so forth.	7	Natural Resource Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 3.4	Encourage conservation processes that protect topsoil and slopes or banks from wind or water erosion through the use of windbreaks, filter strips, cover crops, grassy buffers, tree lines, and other methods of preserving the soil.	8	Natural Resource Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 3.5	Protect roadways from compromised structural integrity, washed away abutments and bridges, degraded berms, or other damage through stabilization and reinforcement techniques.	9	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
GOAL 4: CHICKASAW WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Ongoing	Chickasaw 4.1	Expand and improve public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	10	Public Information	Local; EMGP; HSGP	0	Fire Chief	3/1/2022	3/1/2027
Unchanged	Chickasaw 4.2	Identify and establish locations to be used as community centers during extended power outages or extreme conditions.	11	Public Information	Local	0	Fire Chief	3/1/2022	3/1/2027
Ongoing	Chickasaw 4.3	Educate the public about local digital warning and notification systems that inform them of incoming severe weather and life-threatening incidents.	12	Public Information	Local	0	Fire Chief	3/1/2022	3/1/2027
Unchanged	Chickasaw 4.4	Develop and implement a program to assist in the removal of dead or diseased trees along waterways and roadways that have been affected by Emerald Ash Borer and other invasive species.	13	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
GOAL 5: CHICKASAW WILL REDUCE DAMAGES FROM FLOODING.									
Unchanged	Chickasaw 5.1	Join NFIP and support other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	14	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 5.2	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	15	Prevention	HMA; EMPG; HSGP	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 5.3	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	16	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Ongoing	Chickasaw 5.4	Clear village ditches of debris, sediment, and other obstructions that impede drainage.	17	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Ongoing	Chickasaw 5.5	Participate in regional efforts to reduce vulnerability to flood damages through collaboration including the creation of wetlands and reduction in the use of phosphorus and nitrogen on lawns and the resulting exacerbation of flood damages.	18	Natural Resource Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 5.6	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural watershed process.	19	Structurally Engineered	HMA	0	Mayor	3/1/2022	3/1/2027
Unchanged	Chickasaw 5.7	Advocate that tenants and property owners maintain reasonable property insurance, including flood insurance where appropriate, as mitigation against disaster losses.	20	Prevention	Local	0	Fire Chief	3/1/2022	3/1/2027
GOAL 6: CHICKASAW WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Unchanged	Chickasaw 6.1	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	21	Public Information	Local	0	Mayor	3/1/2022	3/1/2027
COLDWATER									
GOAL 1: COLDWATER WILL REDUCE DAMAGES FROM FLOODING.									
Ongoing	Coldwater 1.1	Participate in NFIP and other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	1	Prevention	Local	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Coldwater 1.2	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	2	Prevention	Local	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Coldwater 1.3	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	3	Prevention	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 1.4	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural drainage.	4	Structurally Engineered	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Defer	Coldwater 1.5	Coldwater will advocate that renters, landowners, and others purchase and maintain reasonable casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	5	Property Protection	Local; ICC	0	Village Administrator		
Unchanged	Coldwater 1.6	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	6	Structurally Engineered	Local; State	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 1.7	Maintain dams and other water control structures to protect people and properties from consequences of structural failure.	7	Prevention	Local; State	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 1.8	Create vegetative buffer zones and restore natural habitat in low-lying areas to hold excess runoff until it naturally drains downstream.	8	Structurally Engineered	Local; State	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 1.9	Participate in regional efforts to reduce vulnerability to flood damages through collaboration including the creation of wetlands and reduction in the use of phosphorus and nitrogen on lawns and the resulting exacerbation of flood damages.	9	Natural Resource Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 1.10	Utilize acquisition, demolition, and relocation programs for severe repetitive loss properties and those that suffer from ongoing damage from all types if flooding.	10	Prevention	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027
GOAL 2: COLDWATER WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Ongoing	Coldwater 2.1	Advocate, support, and implement (on village-owned property), the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	11	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 2.2	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	12	Property Protection	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Coldwater 2.3	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	13	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 2.4	Implement a program to clear debris after severe wind and flooding to keep crop fodder and debris out of water treatment plants, sewers, transportation routes, and other infrastructure, and to keep roadways open and usable as soon as possible after storms.	14	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
GOAL 3: COLDWATER WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Coldwater 3.1	Coldwater will encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	15	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Coldwater 3.2	Coldwater will establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	16	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
New	Coldwater 3.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Coldwater 3.4	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Coldwater 3.5	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Coldwater 3.6	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures.		Property Protection	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Coldwater 3.7	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
GOAL 4: COLDWATER WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Complete	Coldwater 4.1	Coldwater will expand and improve its public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	17	Public Information	Local; HSGP; EMPG	0	Fire Chief		
Complete	Coldwater 4.2	Coldwater will develop and implement a program to assist in the removal of dead or diseased trees along waterways and roadways that have been affected by Emerald Ash Borer and other invasive species.	18	Property Protection	Local	0	Village Administrator		
Complete	Coldwater 4.3	Coldwater will educate the public about local digital warning and notification systems that inform them of incoming severe weather and life-threatening incidents.	19	Public Information	Local; HSGP; EMPG	0	Fire Chief		

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Coldwater 4.4	Identify and establish locations to be used as community centers during extended power outages or extreme conditions.	20	Public Information	Local; Other	0	Fire Chief	3/1/2022	3/1/2027
GOAL 5: COLDWATER WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Ongoing	Coldwater 5.1	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	21	Public Information	Local; HSGP; EMPG	0	Fire Chief	3/1/2022	3/1/2027
GOAL 6: COLDWATER WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Ongoing	Coldwater 6.1	Protect shorelines and riverbanks from wind, water and other hazards that cause erosion or degradation through stabilization techniques like lining with rip-rap or large stone.	22	Natural Resource Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Complete	Coldwater 6.2	Coldwater will establish conservation procedures to be used during water emergencies or shortages due to drought or contamination.	23	Natural Resource Protection	Local; State	0	Village Administrator		
FORT RECOVERY									
GOAL 1: FORT RECOVERY WILL REDUCE DAMAGES FROM FLOODING.									
Unchanged	Ft Recovery 1.1	Utilize acquisition, demolition, and relocation programs for severe repetitive loss properties that suffer from repeated damage from all types of flooding.	1	Prevention	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 1.2	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	2	Structurally Engineered	Local; State; ICC	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Ft Recovery 1.3	Participate in NFIP and other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	3	Prevention	Local	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Ft Recovery 1.4	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	4	Prevention	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 1.5	Advocate that tenants and property owners maintain reasonable casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	5	Prevention	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Ongoing	Ft Recovery 1.6	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	6	Prevention	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Ft Recovery 1.7	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural drainage.	7	Structurally Engineered	State; HMA	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 1.8	Maintain dams and other water control structures to protect people and properties from consequences of structural failure.	8	Property Protection	Local; State	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 1.9	Utilize elevation to protect critical infrastructure and property from flooding, and identify methods to prevent hazardous materials and other industrial equipment from endangering residents during flooding.	9	Property Protection	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Ft Recovery 1.10	Remove debris and obstructions from village-owned waterways.	10	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 1.11	Participate in regional efforts to reduce vulnerability to flood damages through collaboration including the creation of wetlands and reduction in the use of phosphorus and nitrogen on lawns and the resulting exacerbation of flood damages.	11	Natural Resource Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 1.12	Create buffer zones and restore natural habitat in low-lying areas to hold excess runoff until it naturally drains downstream.	12	Natural Resource Protection	Local; State	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 1.13	Inform residents of and facilitate the use of simple prevention measures including the use of sand bags during severe storms.	13	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
GOAL 2: FORT RECOVERY REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.								3/1/2022	3/1/2027
Ongoing	Ft Recovery 2.1	Advocate and support, and implement on village-owned property, the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	14	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 2.2	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	15	Property Protection	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Ft Recovery 2.3	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	16	Prevention	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Ft Recovery 2.4	Implement a program to clear debris after severe wind and flooding to keep crop fodder and debris out of water treatment plants, sewers, transportation routes, and other infrastructure, and to keep roadways open and usable as soon as possible after storms.	17	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
GOAL 3: FORT RECOVERY WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Unchanged	Ft Recovery 3.1	Establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	18	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 3.2	Encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	19	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
New	Ft Recover 3.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Ft Recovery 3.4	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Ft Recovery 3.5	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Ft Recovery 3.6	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
GOAL 4: FORT RECOVERY WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Unchanged	Ft Recovery 4.1	Protect shorelines and riverbanks from wind, water and other hazards that cause erosion or degradation through stabilization techniques like lining with rip-rap or large stone.	20	Natural Resource Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 4.2	Encourage conservation processes that protect topsoil and slopes or banks from wind or water erosion through the use of windbreaks, filter strips, cover crops, grassy buffers, tree lines, and other methods of preserving the soil.	21	Natural Resource Protection	Local; State; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 4.3	Establish conservation procedures to be used during water emergencies or shortages due to drought or contaminated water supplies.	22	Natural Resource Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Ongoing	Ft Recovery 4.4	Protect roadways vulnerable to compromised structure integrity, damaged berms, washed away foundations or abutments, or other deterioration due to severe storms.	23	Property Protection	Local; State	0	Village Administrator	3/1/2022	3/1/2027
GOAL 5: FORT RECOVERY WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Ongoing	Ft Recovery 5.1	Expand and improve its public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	24	Public Information	Local; EMPG; HSGP	0	Village Administrator		
Complete	Ft Recovery 5.2	Fort Recovery will develop and implement a program to assist in the removal of dead or diseased trees along waterways and roadways that have been affected by Emerald Ash Borer and other invasive species.	25	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Ongoing	Ft Recovery 5.3	Educate the public about local digital warning and notification systems that inform them of incoming severe weather and life-threatening incidents.	26	Public Information	Local; HSGP; EMPG	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Ft Recovery 5.4	Identify and establish locations to be used as community centers during extended power outages or extreme conditions.	27	Public Information	Local; Other	0	Village Administrator	3/1/2022	3/1/2027
GOAL 6: FORT RECOVERY WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Unchanged	Ft Recovery 6.1	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	28	Public Information	Local; HSGP; EMPG	0	Village Administrator	3/1/2022	3/1/2027
MENDON									
GOAL 1: MENDON WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Ongoing	Mendon 1.1	Advocate and support, and implement on village-owned property, the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	1	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Mendon 1.2	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	2	Property Protection	Local; HMA	0	Mayor	3/1/2022	3/1/2027
Unchanged	Mendon 1.3	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	3	Prevention	Local	0	Mayor	3/1/2022	3/1/2027

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Mendon 1.4	Implement a program to clear both urban and rural areas of debris after severe wind and flooding to keep crop fodder and debris out of water treatment plants, sewers, transportation routes, and other infrastructure, and to keep roadways open and usable as soon as possible after storms.	4	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
GOAL 2: MENDON WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Ongoing	Mendon 2.1	Encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	5	Property Protection	Local; ICC; Other	0	Mayor	3/1/2022	3/1/2027
Unchanged	Mendon 2.2	Establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	6	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
New	Mendon 2.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	Mendon 2.4	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	Mendon 2.5	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
GOAL 3: MENDON WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Ongoing	Mendon 3.1	Educate the public about local digital warning and notification systems that inform them of incoming severe weather and life-threatening incidents.	7	Public Information	Local	0	Fire Chief	3/1/2022	3/1/2027
Unchanged	Mendon 3.2	Expand and improve its public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	8	Public Information	Local; HSGP; EMPG	0	Fire Chief	3/1/2022	3/1/2027
Unchanged	Mendon 3.3	Identify and establish locations to be used as community centers during extended power outages or extreme conditions.	9	Public Information	Local; Other	0	Fire Chief	3/1/2022	3/1/2027
Unchanged	Mendon 3.4	Develop and implement a program to assist in the removal of dead or diseased trees along waterways and roadways that have been affected by Emerald Ash Borer and other invasive species.	10	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
GOAL 4: MENDON WILL REDUCE DAMAGES FROM FLOODING.									
Ongoing	Mendon 4.1	Participate in NFIP and other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	11	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Mendon 4.2	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	12	Structurally Engineered	Local; State; ICC	0	Myaor	3/1/2022	3/1/2027
Unchanged	Mendon 4.3	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	13	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Ongoing	Mendon 4.4	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	14	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Mendon 4.5	Advocate that tenants and property owners maintain reasonable casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	15	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	Mendon 4.6	Utilize acquisition, demolition, and relocation programs for severe repetitive loss properties that have repeated or extremely severe damage from all types of flooding.	16	Prevention	Local; HMA	0	Mayor	3/1/2022	3/1/2027
Unchanged	Mendon 4.7	Remove debris and obstructions from village-owned waterways.	17	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Complete	Mendon 4.8	Mendon will create buffer zones and restore natural habitat in low-lying areas to hold excess runoff until it naturally drains downstream.	18	Natural Resource Protection	Local; State; HMA	0	Mayor		
GOAL 5: MENDON WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Unchanged	Mendon 5.1	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	19	Public Information	Local; State; EMPG; HSGP	0	Mayor	3/1/2022	3/1/2027
GOAL 6: MENDON WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Unchanged	Mendon 6.1	Protect roadways vulnerable to compromised structure integrity, damaged berms, washed away foundations or abutments, or other deterioration due to severe storms.	20	Property Protection	Local; State	0	Mayor	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	Mendon 6.2	Establish conservation procedures to be used during water emergencies or shortages due to drought or contaminated water supplies.	21	Natural Resource Protection	Local; State; ICC	0	Mayor	3/1/2022	3/1/2027
MONTEZUMA									
GOAL 1: MONTEZUMA WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Unchanged	Montezuma 1.1	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	1	Prevention	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Ongoing	Montezuma 1.2	Advocate and support, and implement on village-owned property, the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	2	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	Montezuma 1.3	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	3	Property Protection	Local; HMA	0	Mayor	3/1/2022	3/1/2027
Unchanged	Montezuma 1.4	Implement a program to clear both urban and rural areas of debris after severe wind and flooding to keep crop fodder and debris out of water treatment plants, sewers, transportation routes, and other infrastructure, and to keep roadways open and usable as soon as possible after storms.	4	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
GOAL 2: MONTEZUMA WILL REDUCE DAMAGES FROM FLOODING.									
Ongoing	Montezuma 2.1	Participate in NFIP and other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	5	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Defer	Montezuma 2.2	Montezuma will properly maintain dams and other water control structures to protect people and properties from consequences of structural failure.	6	Structurally Engineered	Local; ICC	0	Mayor		
Unchanged	Montezuma 2.3	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	7	Structurally Engineered	Local; State; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	Montezuma 2.4	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	8	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Defer	Montezuma 2.5	Montezuma will utilize elevation to protect critical infrastructure and property from flooding, and identify methods to prevent hazardous materials and other industrial equipment from endangering residents during flooding.	9	Property Protection	Local; HMA	0	Mayor		
Unchanged	Montezuma 2.6	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	10	Prevention	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	Montezuma 2.7	Participate in regional efforts to reduce vulnerability to flood damages through collaboration including the creation of wetlands and reduction in the use of phosphorus and nitrogen on lawns and the resulting exacerbation of flood damages.	11	Natural Resource Protection	Local; ICC; Other	0	Mayor	3/1/2022	3/1/2027
Unchanged	Montezuma 2.8	Inform residents of and facilitate the use of simple prevention measures including the use of sand bags during severe storms.	12	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Ongoing	Montezuma 2.9	Remove debris and obstructions from village-owned waterways.	13	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Ongoing	Montezuma 2.10	Manage construction in flood zones that does not consider vulnerability to damages and does not mitigate those consequences.	14	Prevention	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Defer	Montezuma 2.11	Montezuma will require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural watershed process.	15	Structurally Engineered	Local; State; HMA	0	Mayor		
Unchanged	Montezuma 2.12	Utilize acquisition, demolition, and relocation programs for severe repetitive loss properties that have repeated or extremely severe damage from all types of flooding.	16	Prevention	HMA	0	Mayor	3/1/2022	3/1/2027
Defer	Montezuma 2.13	Montezuma will create buffer zones and restore natural habitat in low-lying areas to hold excess runoff until it naturally drains downstream.	17	Natural Resource Protection	Local; ICC	0	Mayor		
Unchanged	Montezuma 2.14	Advocate that tenants and property owners maintain reasonable casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	18	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
GOAL 3: MONTEZUMA WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Unchanged	Montezuma 3.1	Establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	19	Property Protection	Local; Other	0	Mayor	3/1/2022	3/1/2027

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Defer	Montezuma 3.2	Montezuma will encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	20	Property Protection	Local; ICC	0	Mayor		
New	Montezuma 3.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	Montezuma 3.4	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	Montezuma 3.5	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
GOAL 4: MONTEZUMA WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND BLIZZWINTER STORMS.									
Defer	Montezuma 4.1	Montezuma will educate the public about local digital warning and notification systems that inform them of incoming severe weather and life-threatening incidents.	21	Public Information	Local; EMPG; HSGP	0	Mayor		
Unchanged	Montezuma 4.2	Expand and improve its public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	22	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	Montezuma 4.3	Develop and implement a program to assist in the removal of dead or diseased trees along waterways and roadways that have been affected by Emerald Ash Borer and other invasive species.	23	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
GOAL 5: MONTEZUMA WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Unchanged	Montezuma 5.1	Protect roadways vulnerable to compromised structure integrity, damaged berms, washed away foundations or abutments, or other deterioration due to severe storms.	24	Property Protection	Local; State	0	Mayor	3/1/2022	3/1/2027
Unchanged	Montezuma 5.2	Protect beaches, shorelines, and riverbanks from wind, water and other hazards that cause erosion or degradation through stabilization techniques like lining with rip-rap or large stone.	25	Natural Resource Protection	Local; State	0	Mayor	3/1/2022	3/1/2027
Defer	Montezuma 5.3	Montezuma will establish conservation procedures to be used during water emergencies or shortages due to drought or contaminated water supplies.	26	Natural Resource Protection	Local; ICC	0	Mayor		
GOAL 6: MONTEZUMA WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Defer	Montezuma 6.1	Montezuma will educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources	27	Public Information	Local; EMPG; HSGP	0	Mayor		
ROCKFORD									
GOAL 1: ROCKFORD WILL REDUCE DAMAGES FROM FLOODING.									
Ongoing	Rockford 1.1	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural drainage.	1	Structurally Engineered	Local; State	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Rockford 1.2	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	2	Structurally Engineered	Local; State; ICC	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 1.3	Clear village-maintained ditches of debris, sediment, and other obstructions that impede drainage and watershed.	3	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Rockford 1.4	Utilize acquisition, demolition, and relocation programs for severe repetitive loss properties that have repeated or extremely severe damage from all types of flooding.	4	Prevention	Local; HMA	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Rockford 1.5	Participate in NFIP and other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	5	Prevention	Local	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Rockford 1.6	Advocate that tenants and property owners maintain reasonable casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	6	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Rockford 1.7	Encourage individuals to mitigate personal flood loss through the use of simple prevention measures like sandbagging or not building on property that floods.	7	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 1.8	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	8	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 1.9	Manage construction in flood plains that does not consider the vulnerability to damages and does not mitigate those consequences through modifications to construction.	9	Prevention	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Ongoing	Rockford 1.10	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	10	Prevention	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
GOAL 2: ROCKFORD WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									
Unchanged	Rockford 2.1	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	11	Property Protection	HMA	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 2.2	Advocate and support, and implement on village-owned property, the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	12	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 2.3	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	13	Prevention	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 2.4	Implement a program to clear both urban and rural areas of debris after severe wind and flooding to keep crop fodder and other debris out of water treatment plants, sewers, transportation routes, and other infrastructure, and to keep roadways open and usable as soon as possible after storms.	14	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
GOAL 3: ROCKFORD WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Ongoing	Rockford 3.1	Encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	15	Property Protection	Local; ICC; Other	0	Village Administrator	3/1/2022	3/1/2027
Defer	Rockford 3.2	Rockford will establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	16	Property Protection	Local; Other	0	Village Administrator		
Defer	Rockford 3.3	Rockford will establish conservation procedures to be used during water emergencies or shortages due to drought or contamination.	17	Natural Resource Protection	Local; ICC; Other	0	Village Administrator		
New	Rockford 3.4	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Rockford 3.5	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027
New	Rockford 3.6	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Village Administrator	3/1/2022	3/1/2027

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
GOAL 4: ROCKFORD WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									
Defer	Rockford 4.1	Rockford will educate the public about local digital warning and notification systems that inform them of incoming severe weather and life-threatening incidents.	18	Public Information	Local; EMPG; HSGP	0	Village Administrator		
Unchanged	Rockford 4.2	Implement a program to identify and remove dead or diseased trees along waterways and in the public domain that have been or will be destroyed by invasive species, and will therefore become part of a debris management problem after storms and floods.	19	Property Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Unchanged	Rockford 4.3	Expand and improve its public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	20	Public Information	Local; EMPG; HSGP	0	Village Administrator	3/1/2022	3/1/2027
Defer	Rockford 4.4	Rockford will identify and establish locations to be used as community centers during extended power outages or extreme conditions.	21	Public Information	Local; Other	0	Village Administrator		
GOAL 5: ROCKFORD WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Ongoing	Rockford 5.1	Participate in regional watershed management programs when feasible to create additional wetlands, and to reduce the use of phosphorus and nitrogen in agricultural, residential, and commercial settings.	22	Natural Resource Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 5.2	Protect roadways from compromised structural integrity, washed away abutments and bridges, degraded berms, or other damage through stabilization and reinforcement techniques.	23	Property Protection	Local	0	Village Administrator	3/1/2022	3/1/2027
Ongoing	Rockford 5.3	Protect riverbanks from wind, water, and other hazards that cause erosion or degradation through stabilization techniques like lining them with riprap or large stone to limit erosion.	24	Natural Resource Protection	Local; ICC	0	Village Administrator	3/1/2022	3/1/2027
GOAL 6: ROCKFORD WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Ongoing	Rockford 6.1	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	25	Public Information	Local; EMPG; HSGP	0	Village Administrator	3/1/2022	3/1/2027
ST. HENRY									
GOAL 1: ST. HENRY WILL REDUCE DAMAGES FROM FLOODING.									

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	St Henry 1.1	Participate in NFIP and other federal flood mitigation programs that help the county reduce losses attributable to flooding, and will regularly review flood maps through a process of public engagement to assure accuracy as necessary.	1	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 1.2	Maintain or replace, as needed, water control structures and systems, such as storm sewers, wastewater pumping stations, generators, water pumps, dams, and other structures that control watershed and/or protect specific areas from flooding.	2	Structurally Engineered	Local; State; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 1.3	Advocate that tenants and property owners maintain reasonable casualty insurance, including flood insurance where appropriate, as mitigation against disaster losses.	3	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 1.4	Manage construction in flood plains that does not consider the vulnerability to damages and does not mitigate those consequences through modifications to construction.	4	Prevention	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 1.5	Review and enforce existing land use regulations (zoning rules, building codes) to facilitate wise development, especially in areas with flood vulnerability.	5	Prevention	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 1.6	Maintain dams and other water control structures to protect people and properties from consequences of structural failure.	6	Structurally Engineered	Local; State; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 1.7	Use federal and state grant programs to fund mitigation efforts, especially in flood mitigation and mitigation planning.	7	Prevention	Local	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 1.8	Require the use of retention and detention ponds where new or expanded construction, parking lots, streets, or other development may cause flooding to occur as a result of increased runoff or lack of natural watershed process.	8	Structurally Engineered	Local; ICC; Other	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 1.9	Utilize acquisition, demolition, and relocation programs for severe repetitive loss properties that have repeated or extremely severe damage from all types of flooding.	9	Prevention	Local; HMA	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 1.10	Clear village-maintained ditches of debris, sediment, and other obstructions that impede drainage and watershed.	10	Natural Resource Protection	Local; State	0	Mayor	3/1/2022	3/1/2027
GOAL 2: ST. HENRY WILL REDUCE DAMAGES FROM TORNADOES AND WINDSTORMS.									

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Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Unchanged	St Henry 2.1	Implement a program to clear both urban and rural areas of debris after severe wind and flooding to keep crop fodder and other debris out of water treatment plants, sewers, transportation routes, and other infrastructure, and to keep roadways open and usable as soon as possible after storms.	11	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 2.2	Advocate and support, and implement on village-owned property, the proper maintenance of trees and vegetation to reduce damages caused by high winds or tornadoes.	12	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 2.3	Maintain and enforce land use regulations (including zoning and development regulations and construction codes) in an effort to reduce storm damages to properties.	13	Prevention	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 2.4	Advocate for and support the construction of safe rooms for vulnerable locations, including single and multi-family homes and neighborhoods without basements or shelters.	14	Property Protection	HMA	0	Mayor	3/1/2022	3/1/2027
GOAL 3: ST. HENRY WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS.									
Unchanged	St Henry 3.1	Encourage the hardening of utilities through damage resistant installation below grade, improvements to supply lines and generations plants, and upgrade of substations and transformers.	15	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 3.2	Establish redundant suppliers of heating fuels, potable water, and other utility needs and will identify and facilitate availability and proper use of generators as an alternate power source.	16	Property Protection	Local	0	Mayor	3/1/2022	3/1/2027
New	St Henry 3.3	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	St Henry 3.4	Improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
New	St Henry 3.5	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		Structurally Engineered	Local; HMA; Other	0	Mayor	3/1/2022	3/1/2027
GOAL 4: ST. HENRY WILL PRESERVE AND PROTECT NATURAL RESOURCES FROM THE EFFECTS OF WIND AND WATER.									
Unchanged	St Henry 4.1	Establish conservation procedures to be used during water emergencies or shortages due to drought or contamination.	17	Natural Resource Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
GOAL 5: ST. HENRY WILL REDUCE DAMAGES FROM SEVERE STORMS, INCLUDING THUNDERSTORMS AND WINTER STORMS.									

Status	Mitigation Action	Details	Priority	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Ongoing	St Henry 5.1	Educate the public about local digital warning and notification systems that inform them of incoming severe weather and life-threatening incidents.	18	Public Information	Local; EMPG; HSGP	0	Mayor	3/1/2022	3/1/2027
Ongoing	St Henry 5.2	Implement a program to identify and remove dead or diseased trees along waterways and in the public domain that have been or will be destroyed by invasive species, and will therefore become part of a debris management problem after storms and floods.	19	Property Protection	Local; ICC	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 5.3	Expand and improve its public warning and notification capability through additional or improved outdoor warning sirens, improvements to the software used in these systems, or enhanced public education regarding warning and notification of protection orders or warnings.	20	Public Information	Local; EMPG; HSGP	0	Mayor	3/1/2022	3/1/2027
Unchanged	St Henry 5.4	Identify and establish locations to be used as community centers during extended power outages or extreme conditions.	21	Public Information	Local; Other	0	Mayor	3/1/2022	3/1/2027
GOAL 6: ST. HENRY WILL PROVIDE THE PUBLIC WITH DISASTER INFORMATION TO SAVE LIVES AND PRESERVE PROPERTY FROM ALL TYPES OF HAZARDS.									
Unchanged	St Henry 6.1	Educate the public about all relevant disaster hazards and vulnerabilities, protective actions, available services, vulnerable populations and available assistance and other emergency procedures using a variety of means to include print and spoken media, digital resources, and other appropriate local resources.	22	Public Information	Local; EMPG; HSGP	0	Mayor	3/1/2022	3/1/2027