

3.0 MITIGATION STRATEGIES

As Hardin County’s planning team and stakeholders developed mitigation goals and strategies for the county, their intention was to address the specific risks and vulnerabilities in each jurisdiction. As a result, the mitigation strategies in this plan are detailed and comprehensive. While some strategies are similar from jurisdiction to jurisdiction, each group of stakeholders expressed their community’s unique circumstances and crafted strategies to address those specific issues. The result is a set of comprehensive and customized mitigation goals and strategies that address the needs of Hardin County and its jurisdictions.

3.1 STATUS OF PAST AND MITIGATION EFFORTS

In the 2017 Hardin County Hazard Mitigation Plan, countywide mitigation goals were identified. These goals were classified broadly as flood, severe storm, hazardous materials incident, or public education goals. Table 3-1 identifies these goals and their current status, as evaluated by the planning team during the 2023 planning process. Strategies were discussed at meetings, but most parties wanted to have a discussion within the jurisdiction about status of the strategies; therefore, surveys were developed for each jurisdiction, and they were asked to complete the surveys and return them to the EMA.

The status of each mitigation strategy is classified according to this list:

- Completed: Strategy was completed as written; item has not been included in new plan
- Cancelled: Strategy was attempted but is no longer considered a viable solution and has been eliminated for the 2023 plan.
- On Schedule: Strategy is continuing but not complete; efforts are progressing as anticipated and should be continued into the new plan.
- Delayed: Strategy has not been achieved but has encountered a specific problem that causes it to be delayed indefinitely.
- Deferred: Strategy was determined to not be feasible or necessary and has been removed from consideration in the new plan.

Table 3-1: Status of 2018 Mitigation Goals

3.1.1 The Village of Ada

1. THE VILLAGE OF ADA WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.				
1.1 The village will utilize structurally engineered solutions to manage flooding through use of reservoirs, detention ponds, channel diversion to new or existing properties, or through improvement and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.2 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, participation in NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

1.3 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.

Completed Cancelled On Schedule Delayed Deferred

1.4 The village will create natural habitat or vegetative buffers, clear debris blockages from waterways, and maintain ditches and streams to reduce flooding and facilitate drainage.

Completed Cancelled On Schedule Delayed Deferred

2. THE VILLAGE OF ADA WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.

2.1 The village will advocate for improvements, strictly enforce highway regulations, and place adequate signage to help vehicles hauling hazardous chemicals move through the village safely and easily.

Completed Cancelled On Schedule Delayed Deferred

2.2 The village will advocate for adequately sized and placed intersections and road or rail designs that enable trucks and trains to move safely through the village without undue and difficult maneuvering of vehicles.

Completed Cancelled On Schedule Delayed Deferred

2.3 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.

Completed Cancelled On Schedule Delayed Deferred

2.4 The village will advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.

Completed Cancelled On Schedule Delayed Deferred

3. THE VILLAGE OF ADA WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING OR HAIL.

3.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestations such as the Emerald Ash Borer.

Completed Cancelled On Schedule Delayed Deferred

3.2 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.

Completed Cancelled On Schedule Delayed Deferred

3.3 The village will work with Ohio Northern University to develop and use common protective procedures for university students when severe storms affect the college's housing and other facilities.

Completed Cancelled On Schedule Delayed Deferred

3.4 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.

Completed Cancelled On Schedule Delayed Deferred

<p>3.5 The village will clear streets and alleys of debris, snow, and ice in a timely fashion after storms so that residents and businesses can have access to properties and are able to move about the village in an effort to maintain normal business and activities as much as possible.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>4. THE VILLAGE OF ADA WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATIONS AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.</p>
<p>4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.</p> <p>Completed <input checked="" type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>4.3 The village will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.</p> <p>Completed <input checked="" type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>

The Village of Ada installed an outdoor warning siren to improve warning communication with their residents. This was part of strategy 4.1.

3.1.2 The Village of Alger

<p>1. THE VILLAGE OF ALGER WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.</p>
<p>1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>1.2 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>1.3 The village will create natural habitat or vegetative buffers in areas that retain floodwater, and will advocate for maintenance of ditches and streams near the village to reduce flooding and facilitate drainage.</p> <p>Completed <input checked="" type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>1.4 The village will investigate, develop, and improve storm sewers and drainage systems where it will alleviate flooding.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>2. THE VILLAGE OF ALGER WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING OR HAIL</p>

<p>2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>2.2 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>2.3 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services.</p> <p>Completed <input checked="" type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>3. THE VILLAGE OF ALGER WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES.</p>
<p>3.1 The village will advocate for improvement and strictly enforce highway regulations and place adequate signage to help vehicles hauling hazardous chemicals to move through the village safely and easily</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>3.2 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>4. THE VILLAGE OF ALGER WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES</p>
<p>4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms.</p> <p>Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>
<p>4.3 The village will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.</p> <p>Completed <input checked="" type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/></p>

3.1.3 The Village of Dunkirk

<p>1. THE VILLAGE OF DUNKIRK WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.</p>
<p>1.1 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.</p>

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.2 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
1.3 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams to reduce flooding and facilitate drainage.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
1.4 The village will implement improvements and maintenance of storm sewers and drainage systems where it will alleviate flooding.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2. THE VILLAGE OF DUNKIRK WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING OR HAIL.				
2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.2 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
2.3 The village will advocate for the hardening of utilities through system improvements and maintenance replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.4 The village will clear streets and alleys of debris, snow, and ice in a timely fashion after storms so that residents and businesses can have access to properties and are able to move about the village in an effort to maintain business and activities as much as possible.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3. THE VILLAGE OF DUNKIRK WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.				
3.1 The village will advocate for intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
3.2 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property and in relation to working with mutual aid and hazardous materials external resources.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4. THE VILLAGE OF DUNKIRK WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.				

4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios and other means of distribution timely emergency information to the public.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
4.3 The village will work to provide and maintain adequate communication equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
4.4 The village will distribute information to the public that gives directives for protective actions and disaster preparedness for individuals and businesses.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>

3.1.4 The Village of Forest

1. THE VILLAGE OF FOREST WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations (zoning, subdivision and building codes) and by acquiring and demolishing repetitive loss properties.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.2 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.3 The village will clear debris blockages for waterway and maintain ditches and streams to reduce flooding by facilitation of natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.4 The village will maintain, repair, upgrade and replace storm sewers and water control structures to reduce the incidence of flooding and flash flooding.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2. THE VILLAGE OF FOREST WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.2 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.3 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.					

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.4 The village will clear streets and alleys of debris, snow, and ice in a timely fashion after storms so that residents and businesses can have access to properties and are able to move about the village in an effort to maintain business and activities as much as possible.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.5 The village will protect natural resources by reducing damage to waterways and roadways through slope and berm protection and by establishing programs such as windbreak projects to reduce the erosion of soils by wind or water.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3. THE VILLAGE OF FOREST WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.				
3.1 The village will advocate for improvement and strictly enforce highway regulations and place adequate signage to help vehicles hauling hazardous chemicals to move through the village safely and easily.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.2 The village will advocate for adequately sized and placed intersections and road or rail designs that enable trucks and trains to move safely through the village without undue and difficult maneuvering of vehicles.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.3 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.4 The village will advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4. THE VILLAGE OF FOREST WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.				
4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacements and repair to property after damaging storms.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
4.3 The village will work to provide and maintain adequate communication equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

3.1.5 The Village of McGuffey

1. THE VILLAGE OF MCGUFFEY WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP and resolution to the NFIP sanction, compliance with land use regulations in place, and by acquiring and demolishing repetitive loss properties.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
1.2 The village will utilize structurally engineered solutions to manage flooding through creation of reservoirs, detention ponds, channel diversion, or improvement and/or maintenance of storm sewers and drainage systems.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
1.3 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.4 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from ditches, and maintenance of ditches and streams to reduce flooding and facilitate natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
2. THE VILLAGE OF MCGUFFEY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestations such as the Emerald Ash Borer.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.2 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.3 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3. THE VILLAGE WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES.					
3.1 The village will advocate for strict enforcement of highway regulations and adequate signage to help vehicles hauling hazardous chemicals move through the area safely and easily.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.2 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on highways and streets and in working with mutual aid and hazardous materials external resources.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

4. THE VILLAGE WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING AND AFTER SEVERE STORMS, AND OTHER EMERGENCIES.					
4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
4.2 The village will advocate that property owners purchase adequate and appropriate casualty insurance coverage to help with the cost of replacement and repair to property after damaging storms.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
4.3 The village will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	

3.1.6 The Village of Mount Victory

1. THE VILLAGE OF MOUNT VICTORY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
1.1 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>	
1.2 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
1.3 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
2. THE VILLAGE OF MOUNT VICTORY WILL REDUCE THE EFFECTS FO FLOODING AND FLASH FLOODING.					
2.1 The village will utilize structurally engineered solutions to manage flooding through the use of reservoirs, detention ponds, or improvements and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
2.2 The village will prevent flooding through the use of regulations including, but not limited to, adoption of flood risk maps joining NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
2.3 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams to reduce flooding and facilitate drainage.					

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3. THE VILLAGE OF MOUNT VICTORY WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.				
3.1 The village will advocate for improvement and strict enforcement of highway regulations and placement of adequate signage to help vehicles hauling hazardous chemical move through the village safely and easily.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
3.2 The village will advocate for adequately sized and placed intersections and road or rail designs that enable trucks and trains to move safely through the village without undue and difficult maneuvering of vehicles.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
3.3 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways, streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
3.4 The village will advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4. THE VILLAGE OF MOUNT VICTORY WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.				
4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.3 The village will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>

3.1.7 The Village of Patterson

1. THE VILLAGE OF PATTERSON WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.				
1.1 The village will prevent flooding through the use of regulations including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations in place, and by acquiring and demolishing repetitive loss properties.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
1.2 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams to reduce flooding and facilitate drainage.				

	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.3 The village will complete improvements to storm sewers through maintenance, repair, and upgrades or replacement to the degree they can financially support the strategy.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2. THE VILLAGE OF PATTERSON WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
2.2 The village will support the installation of safe rooms for single and multi-family homes and other structures without basements or shelter to give protection in tornadoes and strong windstorms.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.3 The village will advocate for the hardening of utilities through system improvements and maintenance replacement of equipment establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
2.4 The village will protect natural resources by reducing damage to waterways and roadways through slope and berm protection, and by establishing programs such as windbreak projects to reduce erosion of soil by wind or water.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3. THE VILLAGE OF PATTERSON WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICAITONS AT IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.					
3.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems weather radios, and other means of distributing timely emergency information to the public.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
3.3 The village will work to provide and maintain adequate communication equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
3.4 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4. THE VILLAGE OF PATTERSON WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.					

4.1 The village will advocate for improvement and strict enforcement of highway regulations and placement of adequate signage to help vehicles hauling hazardous chemicals move through the village safely and easily.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

4.2 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, nearby railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

3.1.8 The Village of Ridgeway

1. THE VILLAGE OF RIDGEWAY WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING

1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations in place (zoning, subdivision and building codes), and by acquiring and demolishing repetitive loss properties.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

1.2 The village will utilize structurally engineered solutions to manage flooding through the use of reservoirs, detention ponds, channel diversion to new or existing properties, or through improvement and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

1.3 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

1.4 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams to reduce flooding and facilitate drainage.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2. THE VILLAGE OF RIDGEWAY WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.

2.1 The village will advocate for improvement and strict enforcement of transportation regulations and place adequate signage to help vehicles hauling hazardous chemicals move through the village safely and easily.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2.2 The village will advocate for adequate road and rail design that enables trucks and trains to move safely through the village without undue and difficult maneuvering of vehicles.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2.3 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on highways, streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2.4 The village will advocate reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

3. THE VILLAGE OF RIDGEWAY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
3.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as by the Emerald Ash Borer.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
3.2 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
3.3 The village will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed and re-entry in an organized and methodical manner that maintains as safe an environment as possible.					
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
3.4 The village will protect natural resources by reducing damage to waterways and roadways through slope and berm protection and by establishing programs such as windbreak projects to reduce the erosion of soils by wind or water.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>	
4. THE VILLAGE OF RIDGEWAY WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.					
4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.					
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property and damaging storms.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
4.3 The village will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.					
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	

3.1.9 The City of Kenton

1. THE CITY OF KENTON WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.					
1.1 The city will advocate for improvements to signage that guides vehicles hauling hazardous chemicals through the city to prevent confusion of drivers and make the routes more easily navigated.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	

1.2 The city will advocate for adequately sized and placed intersections, crossings, and routes as well as road and rail designs that enable trucks and trains to move safely through the city without undue and difficult maneuvering or navigating of vehicles.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

1.3 The city will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

1.4 The city will advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

1.5 The city will make improvements to its water distribution system, including replacement of water mains and distribution lines, catch basins, and fire hydrants; and will establish a grid system of hydrants, to facilitate response to a hazardous materials incident that could involve extensive firefighting tactics or major decontamination of victims or equipment.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2. THE CITY OF KENTON WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.

2.1 The city will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestations such as the Emerald Ash Borer.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2.2 The city will advocate and plan for protective actions and resources such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2.3 The city will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

2.4 The city will protect natural resources by reducing damage to waters and streets through slope and berm protection, and by establishing programs such as windbreak projects to reduce the erosion of soils by wind or water.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

3. THE CITY OF KENTON WILL WORK TO REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.

3.1 The city will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, participation in NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

3.2 The city will utilize structurally engineered solutions to manage flooding through use of reservoirs, detention ponds, channel diversion to new or existing properties, or through improvement and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.

Completed **Cancelled** **On Schedule** **Delayed** **Deferred**

3.3 The city will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.4 The city will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams as measures to reduce flooding and facilitate drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4. THE CITY OF KENTON WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATIONS AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.					
4.1 The city will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.2 The city will advocate that property owners purchase adequate and appropriate casualty and property insurance to help with the cost of replacement and repair to property after damaging storms.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.3 The city will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with each other and with other departments and resources during response to storms.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.4 The city will create and make available to the residents information that will guide them to take protective actions during disaster incidents and to establish preparedness prior to any incident that is possible.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

3.1.10 Hardin County

1. HARDIN COUNTY WILL REDUCE THE NEGATIVE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 Hardin County will prevent flooding through the use of regulation, including but not limited to, adoption of flood risk maps, participation in NFIP, compliance with land use regulations in effect (zoning, subdivision regulations, building and fire codes, public health permits, and other rules in place according to jurisdiction), and by acquiring and demolishing structures that are repetitive loss properties.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.2 Hardin County will utilize structurally engineered solutions to manage flooding through the installation of retention and detention ponds, channelization or diversion, vegetative buffers, and improvements and maintenance of storm sewers and runoff management systems.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.3 Hardin County will protect properties from flooding through the use of elevation, safe rooms, building codes and construction standards, acquisition and demolition, and flood-proofing actions.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.4 Hardin County will use the creation of natural habitat or vegetative buffers, cleaning of debris blockages from waterways and catch basins, and maintenance ditches, streams, and storm sewers to reduce the effects of flooding.					

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.5 Hardin County will work with the farming community to manage and reduce the amount of crop fodder that reaches storm sewers following periods of heavy precipitation and will work to manage runoff from livestock farms near neighborhoods and municipalities after flooding.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.6 Hardin County will work with adjacent counties, possibly through watershed conservancy groups, to improve drainage of runoff after it leaves Hardin County so that rivers, ditches and streams do not back up into county properties because the water cannot drain through debris and blockages in downstream communities.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
1.7 Hardin County will place permanent changeable warning/closed signage on roadways that flood frequently that can be deployed by a variety of county workers quickly after flash flooding.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2. HARDIN COUNTY WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENT CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.				
2.1 Hardin County will advocate for improvement and strict enforcement of highway regulations and placement of adequate signage to help commercial hazardous materials haulers move safely through Hardin County.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.2 Hardin County will advocate for adequately sized and marked intersections and road or rail design that enables trucks and trains to maneuver safely through the county without undue difficulty.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.3 Hardin County will determine what additional risk is present to residents and businesses because of recent pipeline expansions that increase the distribution of hazardous chemicals underground and will establish a plan for new awareness, training, or equipment that is necessary should an emergency occur.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.4 Hardin County will advocate for additional signage on high-speed highways where tankers and trucks haul hazardous materials to be marked with warnings where surface elevations cause the inability to see oncoming traffic, and head-on crashes are likely.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
2.5 Hardin County will advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operation competency testing to reduce the incident of hazardous materials spills and releases across the county.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3. HARDIN COUNTY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, AND HAIL.				
3.1 Hardin County will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.2 Hardin County will work with local resources to protect cemeteries and other historical structures from damages due to storms and exposure.				

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.3 Hardin County will advocate and plan for protective actions and resources for all residents, including those with functional needs, such as storm shelters, safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.4 Hardin County will advocate for the hardening of all utility service throughout the county through system improvements, maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.5 Hardin County will clear county highways and roads of debris, snow, and ice in a timely fashion after storms so that residents and businesses can access their properties and are able to carry on with normal business and activities as soon as possible after severe storms.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.6 Hardin County will protect natural resources by reducing damage to waterways and roadways through slope and berm protection and by establishing programs such as cover crops and windbreak projects to reduce the erosion of soils by wind or water.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
3.7 Hardin County will consider the possibility of aquifer contamination through storm runoff or hazardous materials contamination, and will establish a plan to protect potable water availability to persons served by aquifers at risk for contamination.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4. HARDIN COUNTY WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATIONS AS IT REALTES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.				
4.1 Hardin County will establish, maintain, improve, and promote public warning and notification systems such as reverses 9-1-1, subscription services, outdoor warning sirens, digital warning systems, weather radios, mass media options, and other methods to deliver emergency messages to the public in a timely fashion.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.2 Hardin County will provide awareness, protective actions, and preparedness information to county residents and workers regarding potential threats and hazards, including but not limited to, climate change, dam failure, drought, earthquake, extreme temperatures, flooding and flash flooding, hazardous materials spills and releases, invasive species, severe thunderstorms, severe winter storms, tornadoes, wind storms, and utility or infrastructure failure.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.3 Hardin County will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.4 Hardin County will provide and maintain adequate communication equipment for first responders to ensure the ability to communicate with other departments, other disciplines involved in response or recovery, and external resources during response to storms.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

4.5 Hardin County will provide training to local public safety personnel, volunteer responders or organizations involved in disaster response, and local officials in the awareness of, response to, mitigation of, and recovery from disasters possible in the local county.

Completed Canceled On Schedule Delayed Deferred

3.2 RISK PRIORITIES

The Hazard Identification and Risk Assessment (HIRA) explains in detail the identification of hazards and evaluation of risks in Hardin County. The HIRA considers numerous natural, technical, and human-caused possibilities, cites the historical frequency and severity of past incidents, and considers the damages that would occur should an incident impact a jurisdiction within Hardin County. As a result of this assessment, the planning team determined that relevant hazards and applicable risks for Hardin County are primarily associated with water, utility and infrastructure failure, hazardous materials spills, and/or winter weather events.

The strategies in this plan were developed based on these identified hazards and risks and intend to provide general options to reduce vulnerability in Hardin County. During the planning process, the planning team and stakeholders determined what hazards strike most frequently, which cause the most damage or injuries, and which consequences can be prevented or lessened. With limited human resources and financial reserves to conduct mitigation projects, the planning team weighed every potential effort by measuring the benefit against cost and the resources realistically available to conduct the activity. The planning team endeavored to prioritize the strategies that could realistically be accomplished and would result in actual reduction in potential and real losses.

Social vulnerability, community resilience and response capability assessments were new considerations for Hardin County communities, based upon the 2023 Mitigation Plan Guidance released by FEMA. Extremely good discussions resulted from the questions surrounding these issues, and participants were in complete agreement that strategies for each need to be developed and addressed over the coming plan validity period. Because the villages are small with limited governing capacity, it was decided that Hardin County, the City of Kenton, and the Village of Ada would take the lead on these strategies for their jurisdictions that represent 85% of Hardin County population. The other villages would attempt to develop an overall awareness-building strategy for the next five years.

Hardin County already recognized climate change in 2017, and continued to discuss its effects for this round of planning. The changes in severity and intensity of storms are documented in the HIRA. Participants did not feel that climate change, in and of itself, was a hazard. Instead, they felt that their general approach to storms needed to include worsening yet of severity and intensity, and perhaps an exacerbation of erosion, wear and tear on roadways, deterioration of ditch banks, culverts, bridges, and danger to structures will occur.

Considerations of cost, identifiable funding to support the strategy, actual benefit to the community, prevention of loss of life, and overall feasibility were all discussed. Strategies were rated against one another and ranked from most to least important. While most vulnerability is

spread across the county and jurisdictions are susceptible to similar loss, the strategies vary in prioritization and assignment to reflect the unique characteristics of each community. Because of higher populations and broader based tax bases, the City of Kenton and the Village of Ada are more capable of implementing individualized mitigation strategies than the other smaller villages. Approximately 45% of the county population resides in those two municipalities, and 40% of the population resides in the rural townships. The small villages (Alger, Dunkirk, Forest, McGuffey, Mt. Victory, Patterson, and Ridgeway) make up the approximate remaining 15%. The highest practical ability of jurisdictions to implement mitigation strategies lies with Hardin County as a whole, the City of Kenton and the Village of Ada. The smaller villages have the capability to implement simpler, less costly strategies unless funded to a large extent by grant programs.

While it is common belief that you will never be faced with the emergency you planned for, Hardin County attempted to do just that. They worked diligently to plan for what may feasibly affect their community. These strategies are an outcome of that assessment.

3.3 MITIGATION GOALS AND STRATEGIES

Planning team members and stakeholders from each jurisdiction worked collaboratively to develop mitigation goals and strategies. The Contractor drafted strategies based on stakeholder feedback and presented them to the planning team and community for public review and comment. Municipalities, townships, county representatives and other planning team members were given drafted strategies a week before the final meeting and public review period. The general public had open access to the strategies on March 13th, and the public review period was officially designated from March 17-31. This section identifies the mitigation goals and strategies for each jurisdiction and the priority level, action type, lead agency, timeline, and potential funding source for each action.

Each goal expressed under a specific municipal jurisdiction reflects the community's own risk assessment and identification of hazards, which are very similar but not necessarily identical across the county. The townships, however, have all been included under the county and all identified hazards are included. There are only a few unique and individual strategies for municipalities because the communities are all very similar and share many concerns, which are reflected in how they have included and prioritized hazards and strategies. The Village of Ada and the City of Kenton have more strategies than the other municipalities because they have more capacity to implement them.

Some of the smaller villages have simpler and less comprehensive strategies because they have limited ability to manage, mitigate, and modify community characteristics. For example, the amount of public property for which the village would be responsible, and for which mitigation strategy implementation would fall to the village government, is low. Many of the villages have only a few hundred residents, so services and properties are appropriately scaled down, as compared to the City of Kenton or the Village of Ada. There may be one village hall that houses the public safety resources for the village, or there may be an additional maintenance building for which the village is responsible. At times, that is a single combined structure. Otherwise,

there are a few streets. Many of the main roadways that cross through the villages in Hardin County are state-owned highways for which the Ohio Department of Transportation is fully responsible. The great majority of the property within the villages is privately owned or state-owned. Therefore, some of these villages have not considered invasive species infestation a threat, nor have they considered earthquake a threat. Those small villages with a special concern, such as significant rail exposure or an upground reservoir, have included those threats in their list of hazards.

Most jurisdictions shared concerns about flash flooding after heavy rain or extended periods of constant precipitation, potentially worsened by ice, snow melt, or previously saturated soils. Because of the number of railroads and state highways, most communities were worried about hazardous materials spills. All communities shared concerns over invasive species that take a toll on trees and vegetation and increase storm debris, which becomes difficult for any community to manage. As is typical for Ohio, wind of any sort – tornado, derecho, straight line – and severe storms, including thunderstorms and blizzards, were perceived as disruptive and damaging. Based upon individual community characteristics, the prioritization of hazards varied, and is described in the HIRA.

3.3.1 Hardin County

Hardin County lies at the top of five watersheds with nearly two dozen sub-basins built upon local ditches and streams. The county is cut in half by the continental divide, sending part of the runoff to Lake Erie and part to the Ohio River. However, that does not mean Hardin County has no flooding because low-lying properties, streets, highways, and areas along the waterways do flood under heavy precipitation over a short time frame or when ground is frozen or saturated and cannot absorb more water. Flash flooding is possible and common in many areas of the county where fast-falling precipitation cannot drain as fast as it falls. Surface flooding is common, especially near large concrete parking lots, commercial properties, and very large buildings or multi-unit structures.

Most flooding, especially in the municipalities, is flash flooding that occurs with rapid rainfall or ice melt and that prevents storm sewers from moving water out of streets and parking lots as fast as it falls. There are some places where water management needs to be improved because sewers are inadequate, in disrepair, or where water naturally impacts structures as it drains.

All of Hardin County is vulnerable to power outages, severe wind, some erosion, and a variety of natural occurrences that can damage property, endanger lives, and interrupt the well being of residents and workers. The muck soils prevalent in some areas can cause dust storms when the wind kicks up. In other areas, disease has weakened the Centurion deciduous trees that cover and beautify much of Hardin County landscape. While a great deal of debris due to EAB disease has been eliminated, much more remains to fall for years to come.

Hardin County sits between Toledo and Columbus along the routes from the Indiana cities of Indianapolis and Fort Wayne to Dayton and Columbus. The county has many two-lane state highways that are heavily traveled by semi-trucks and trailers and railroads that provide

transport routes between cities, ports, and rail yards across the country. The number of trucks and trains carrying hazardous materials, volatile products, and excessive amounts of goods is high. Derailments, vehicular accidents, and other emergencies can be attributed to these routes across the county. Drivers who attempt to pass slower moving vehicles on two-lane roadways increase the likelihood of accidents. The dips and occasional curves make it hard to see oncoming traffic, which leads to increased risk of crashes. Agricultural goods and products, production livestock and crops, and farm chemicals, fertilizers and pesticides are present on the roads and rails across the county; accidents caused by human error or weather events can be devastating. With rail lines cutting through the lower half of Kenton, and then to the west separating the Village of Ada into two sides, the impact on more highly populated municipal neighborhoods is significant. A vaporized chemical could reach many residents and visitors very quickly, and a liquid could contaminate a large part of adjacent property. As several state highways converge inside the town square in Kenton, the county court house and several City of Kenton administrative offices are vulnerable. Fire, police and EMS crew stations are also close by. These are all within the impact zone of a rail or highway chemical accident.

The strategies that follow intend to address vulnerabilities caused by ~~climate change, dam failure~~, drought and excessive heat, earthquake, erosion and land subsidence, flooding, hazardous materials spills and releases, invasive species, severe thunderstorms, severe wind storms, severe winter storms, tornadoes, and utility or infrastructure failures.

An underlying vulnerability to social shortcomings, challenges to community resilience and the effects of climate change were considered to be part of all strategies. Those more vulnerable due to special circumstances or characteristics are more vulnerable to a higher degree of damage, more interruption to daily life, and more physical damage. Communities with less resources – namely, the seven smaller villages – are more prone to extreme damage and less resiliency. It will almost always take them longer to recover from a disaster than the larger communities with more resources.

New flood risk maps have placed more areas in the floodplain. While there are no entirely new areas included, there are expansions to the general area that was already floodplain. When final maps are received, this may cause force-placement of flood insurance by lenders, or may cause landowners without mortgages to purchase flood coverage. As a result, the communities that are not a part of NFIP are being strongly encouraged to join or rectify their sanction from NFIP.

Table 3-2: Hardin County Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. HARDIN COUNTY WILL REDUCE THE NEGATIVE EFFECTS OF FLOODING AND FLASH FLOODING.					

1.1 Hardin County will prevent flooding through the use of regulation, including but not limited to, adoption of flood risk maps, ongoing participation in NFIP, compliance with land use regulations in effect (zoning, subdivision regulations, building and fire codes, public health permits, and other rules in place according to jurisdiction), and by acquiring and demolishing structures that are repetitive or severe repetitive loss properties.					
1	Prevention	Floodplain Manager	6-1-23	5-31-28	LOC; PDM; BRIC; FMA
1.2 Hardin County will utilize structurally engineered solutions to manage flooding through the installation of retention and detention ponds, channelization or diversion, vegetative buffers, and improvements and maintenance of storm sewers and runoff management systems.					
2	Structurally Engineered Solutions	County Building Authority	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; HMGP; ICC; Other
1.3 Hardin County will protect properties from flooding through the use of elevation, safe rooms, building codes and construction standards, acquisition and demolition, and flood-proofing actions.					
3	Property Protection	Floodplain Manager	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; HMGP; Other
1.4 Hardin County will use the creation of natural habitat or vegetative buffers, cleaning of debris blockages from waterways and catch basins, and maintenance of ditches, streams, and storm sewers to reduce the effects of flooding.					
4	Property Protection	County Engineer	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; CDBG; ICC; Other
1.5 Hardin County will work with the farming community to manage and reduce the amount of crop fodder that reaches storm sewers following periods of heavy precipitation and will work to manage runoff from livestock farms near neighborhoods and municipalities after flooding.					
5	Property Protection	County Engineer	6-1-23	5-31-28	LOC
1.6 Hardin County will work with adjacent counties, possibly through watershed conservancy groups, to improve drainage of runoff after it leaves Hardin County so that rivers, ditches and streams do not back up into county properties because the water cannot drain through debris and blockages in downstream communities.					
6	Natural Resource Protection	SWCD Director	6-1-23	5-31-28	LOC; ICC
1.7 Hardin County will maintain permanent changeable warning/closed signage on roadways that flood frequently that can be deployed by a variety of county workers quickly after flash flooding.					
7	Property Protection	County Engineer	6-1-23	5-31-28	LOC
1.8 Create a database of alternate energy sites, including solar fields, wind turbines, and other energy generation and storage, for the purpose of flood management and changes made due to these systems that affect drainage after heavy precipitation and wind events.					
8	Property Protection	County Engineer	6-1-22	5-31-28	LOC

1.9 Create a database or list of cultural sites, including cemeteries, mausoleums, Indian burial sites, and other graves to easily locate historical and cultural areas that need to be protected from flooding and other storm damage, and to identify the parties responsible for maintaining and repairing gravestones and other damage from storms.					
9	Property Protection	EMA Director	6-1-22	5-31-28	LOC
1.10 Work to include more ditches in the county's ditch maintenance program through the ditch petition process and other available means to achieve this goal.					
10	Property Protection	County Engineer	6-1-22	5-31-28	LOC; ICC
1.11 Increase the use of and advocate for more use of cover crops to protect soils, additional drainage tile to facilitate drainage after heavy rain, construction of grassy waterways to aid in drainage that resists erosion, and use of hybrid seed that is more resilient to dry periods during the growing season.					
11	Natural Resource Protection	SWCD Director	6-1-22	5-31-28	LOC; H2OH
2. HARDIN COUNTY WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENT CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.					
2.1 Hardin County will advocate for improvement and strict enforcement of highway regulations and will maintain adequate signage to help commercial hazardous materials haulers move safely through Hardin County.					
12	Property Protection	Hardin Co. Sheriff	6-1-23	5-31-28	LOC
2.2 Hardin County will advocate for adequately sized and marked intersections and road or rail design that enables trucks and trains to maneuver safely through the county without undue difficulty.					
13	Property Protection	County Engineer	6-1-23	5-31-28	LOC; Other
2.3 Hardin County will determine what additional risk is present to residents and businesses because of recent pipeline expansions that increase the distribution of hazardous chemicals underground and will establish a plan for new awareness, training, or equipment that is necessary should an emergency occur.					
14	Property Protection	EMA Director	6-1-23	5-31-28	LOC; EMPG; Other
2.4 Hardin County will advocate for additional signage on high-speed highways where tankers and trucks haul hazardous materials to be marked with warnings where surface elevations cause the inability to see oncoming traffic, and head-on crashes are likely.					
15	Property Protection	Hardin Co. Sheriff	6-1-23	5-31-28	LOC; Other
2.5 Hardin County will advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, adequate marking of slow-moving vehicles, and enforcement of all commercial transportation regulations and operation competency testing to reduce the incident of hazardous materials spills and releases across the county.					
16	Property Protection	Hardin Co. Sheriff	6-1-23	5-31-28	LOC
2.6 Hardin County will work with the hazardous materials producers, shippers, and users, railroads, and disposal companies to proactively establish and utilize safety measures that prevent hazardous substance accident, spills, and releases, unsafe disposal, and other community exposures to harmful chemicals.					
17	Property Protection	EMA Director	6-1-22	5-31-28	LOC
2.7 Hardin County will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.					

18	Property Protection	EMA Director	6-1-22	5-31-28	LOC
3. HARDIN COUNTY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, TORNADO, HEAVY PRECIPITATION IN THE FORM OF ICE, SNOW, OR RAIN, EXTREME TEMPERATURES, LIGHTNING, AND HAIL.					
3.1 Hardin County will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer, and other invasive species.					
19	Natural Resource Protection	County Engineer	6-1-23	5-31-28	LOC; PDM: BRIC
3.2 Hardin County will work with local resources to protect cemeteries and other historical structures from damages due to storms and exposure.					
20	Property Protection	County Engineer	6-1-23	5-31-28	LOC
3.3 Hardin County will advocate and plan for protective actions and resources for all residents, including those with a variety of individualized needs, such as storm shelters, construction of safe rooms, comfort stations during extremely hot spells with or without power outages , overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.					
21	Property Protection	EMA Director	6-1-23	5-31-28	LOC; EMPG
3.4 Hardin County will advocate for the hardening of all utility service throughout the county through system improvements, maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service, with emphasis upon providing power alternatives to vulnerable populations during extreme heat and other weather-related power outages.					
22	Property Protection	EMA Director	6-1-23	5-31-28	LOC; Other
3.5 Hardin County will clear county highways and roads of debris, snow, and ice in a timely fashion after storms so that residents and businesses can access their properties and are able to carry on with normal business and activities and schools can continue to operate as soon as possible after severe storms.					
23	Property Protection	County Engineer	6-1-23	5-31-28	LOC
3.6 Hardin County will protect natural resources by reducing damage to waterways and roadways through slope and berm protection and by establishing programs such as cover crops and windbreak projects to reduce the erosion of soils by wind or water, and degradation of ditch banks, sloping properties, and other land susceptible to erosion and sedimentation after heavy rains.					
24	Natural Resource Protection	SWCD Director	6-1-23	5-31-28	LOC; ICC; Other
3.7 Hardin County will monitor vulnerability to aquifer contamination through storm runoff or hazardous materials contamination, and will establish a plan to protect and/or provide potable water to persons served by aquifers at risk for contamination.					
25	Natural Resource Protection	Health Commissioner	6-1-23	5-31-28	LOC
3.8 Develop a plan of action to identify, just-in-time when needed, and support families and individuals with functional needs, relevant disadvantages, or other characteristics that cause them to be more vulnerable to damage or injury during or after a significant storm event, especially when faced with power outages due to severe weather events, earthquakes, or equipment failures.					
26	Protection	EMA Director	6-1-22	5-31-28	LOC; EMPG
3.9 Work with Hardin County Agricultural Society to establish sheltering, limited food preparation, pet sheltering, livestock sheltering, or gathering spaces and safe areas at the fairgrounds for use when severe storms strike the county resulting in power outages to farms or flooded pastures and barns.					

27	Protection	EMA Director	6-1-22	5-31-28	LOC; EMPG
3.10 In consideration of higher precipitation amounts and winds over the recent past, consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.					
28	Property Protection	County Engineer	6-1-22	5-31-28	LOC
3.11 Develop resources in communities and major population centers to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers due to utility outages, flooding, or storm damages.					
29	Protection	EMA Director	6-1-22	5-31-28	LOC; EMPG
4. HARDIN COUNTY WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATIONS AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.					
4.1 Hardin County will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, subscription services, outdoor warning sirens, digital warning systems, weather radios, mass media options, and other methods to deliver emergency messages to the public in a timely fashion.					
30	Property Protection	EMA Director	6-1-23	5-31-28	LOC; HSGP; EMPG; Other
4.2 Hardin County will provide awareness, protective actions, and preparedness information to county residents and workers regarding potential threats and hazards, including but not limited to, climate change, dam failure, drought, earthquake, extreme temperatures, flooding and flash flooding, hazardous materials spills and releases, invasive species, severe thunderstorms, severe winter storms, tornadoes, wind storms, and utility or infrastructure failure.					
31	Property Protection	EMA Director	6-1-23	5-31-28	LOC; EMPG; HSGP
4.3 Hardin County will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms. They will encourage renters to carry insurance on contents and personal property to minimize personal losses after significant incidents.					
32	Property Protection	EMA Director	6-1-23	5-31-28	LOC; EMPG
4.4 Hardin County will provide and maintain adequate communication equipment for first responders to ensure the ability to communicate with other departments, other disciplines involved in response or recovery, and external resources during response to storms.					
33	Property Protection	EMA Director	6-1-23	5-31-28	LOC: EMPG; HSGP
4.5 Hardin County will provide training to local public safety personnel, volunteer responders or organizations involved in disaster response, and local officials in the awareness of, response to, mitigation of, and recovery from disasters possible in the local county.					
34	Property Protection	EMA Director	6-1-23	5-31-28	LOC; EMPG; HSGP; Other
4.6 Develop public service announcements, flyers, or other written tools to be used after significant incidents that advise people with functional, economic, medical, and social needs where to request assistance for their individual situation. Include in this announcement resources for behavioral, therapeutic, medical, and home health resources.					
35	Public Outreach	EMA Director	6-1-23	5-31-28	LOC; EMPG

4.7 Create a resource list for assistance to unique populations, including, but not limited to interpreters for non-English speaking persons, ASL or other communication assistance for sensory-challenged victims, and social workers for providing help to transient, temporary, or disadvantaged populations who need help after significant events.

36 Public Outreach EMA Director 6-1-23 5-31-28 LOC: EMPG

5. HARDIN COUNTY WILL MONITOR ALL THREATS FOR THE PURPOSE OF RECOGNIZING ANY CHANGES IN VULNERABILITY AS WELL AS DETECTING OR DISCOVERING AN INCIDENT ATTRIBUTABLE TO A LESS-LIKELY HAZARD AS REPORTED BY VARIOUS MONITORING SYSTEMS.

5.1 Hardin County will monitor earthquake threats and will maintain awareness of the infrastructure and institutions or critical structures that may be most impacted by a potential earthquake.

37 Property Protection EMA Director 6-1-23 5-31-28 LOC; EMPG

6. HARDIN COUNTY WILL MONITOR ANY DROUGHT AND/OR EXTREME HEAT THREATS, PREDICTIONS, OR INCIDENTS TO LESSEN THE IMPACT UPON VULNERABLE POPULATIONS.

6.1 Hardin County will warn residents and others of predicted heat waves, drought conditions, or other hazards related to a lack of rain or unusually high temperatures so they can plan for any special needs during that time, such as the operation of durable medical equipment or the need for continual air conditioning.

38 Prevention EMA Director 6-1-23 5-31-28 LOC

3.3.2 Ada

Ada is located in the upper northwest corner of Hardin County and is home to Ohio Northern University. ONU has just over 3,100 students and 650 faculty and staff from thirty-four states and twenty-six countries. The university is located in the heart of the village. Ada officials are concerned about flooding and flash flooding, hazardous materials incidents, and damage from severe storms of any type. Beautiful trees and vegetation populate the picturesque village, and homes, both old and new, but are immaculately kept. This village is filled with pride, fueled by education and research, and supported by Hardin County services.

Table 3-3: Ada Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF ADA WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 The village will utilize structurally engineered solutions to manage flooding through use of reservoirs, detention ponds, channel diversion to new or existing properties, or through improvement and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.					
1	Structurally Engineered Solutions	Village Administrator	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; CDBG; Other
1.2 The village will work to manage flood risk through the use of regulation including, but not limited to, adoption of flood risk maps, ongoing participation in NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.					
2	Prevention	Village Administrator	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; ICC; Other

1.3 The village will protect properties from flooding through the use of elevation, safe rooms , acquisition and demolition, and improvement and enforcement of building codes, floodplain regulations and construction standards.					
3	Property Protection	Village Administrator	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; ICC; Other
1.4 The village will create natural habitat or vegetative buffers, clear debris blockages from waterways, and maintain ditches and streams to reduce flooding and facilitate drainage.					
4	Natural Resource Protection	Village Administrator	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; CDBG; ICC; Other
1.5 The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed					
5	Property Protection	Village Administrator	6-1-22	5-31-28	LOC
2. THE VILLAGE OF ADA WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.					
2.1 The village will advocate for improvements, strictly enforce highway regulations, and place adequate signage to help vehicles hauling hazardous chemicals move through the village safely and easily.					
6	Property Protection	Police Chief	6-1-23	5-31-28	LOC; Other
2.2 The village will advocate for adequately sized and placed intersections and road or rail designs that enable trucks and trains to move safely through the village without undue and difficult maneuvering of vehicles.					
7	Property Protection	Police Chief	6-1-23	5-31-28	LOC; Other
2.3 The village will provide ongoing training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.					
8	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; Other
2.4 The village will continue to advocate for reduced highway and rail speed limits, intersection and rail crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.					
9	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; Other
2.5 The village will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances					
10	Property Protection	Fire Chief	6-1-22	5-31-28	LOC
2.6 The village will work with the university to assess hazardous materials risk to structures and people on campus, and will develop a collaborative plan to take swift protective action in the case of a derailment that affects the university and the village.					
11	Protection	Fire Chief	6-1-22	5-31-28	LOC

3. THE VILLAGE OF ADA WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING OR HAIL.

3.1 The village will advocate for and implement programs to trim trees, clear ditches, streams and culverts of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestations such as the Emerald Ash Borer.

12	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

3.2 The village will advocate and plan for implementation of protective actions and deployment of resources such as storm shelters, **the construction of** safe rooms, shelter-in-place recommendations, temporary or overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.

13	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; PDM; BRIC
----	---------------------	------------	--------	---------	-------------------

3.3 The village will work with Ohio Northern University to develop and use common protective procedures for university students when severe storms affect the college's housing and other facilities, or when extended utility failures necessitate village assistance.

14	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

3.4 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.

15	Property Protection	Village Administrator	6-1-23	5-31-28	LOC; ICC; Other
----	---------------------	-----------------------	--------	---------	--------------------

3.5 The village will clear streets and alleys of debris, snow, and ice in a timely fashion after storms so that residents and businesses can have access to properties and are able to move about the village in an effort to maintain normal business and activities as much as possible.

16	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

3.6 In consideration of higher precipitation amounts and winds over the recent past, consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future

17	Property Protection	Village Administrator	6-1-22	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

3.7 Develop resources in communities and major population centers to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.

18	Protection	Village Administrator	6-1-22	5-31-28	LOC
----	------------	-----------------------	--------	---------	-----

4. THE VILLAGE OF ADA WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATIONS AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.

4.1 The village will maintain, improve, and promote public warning and notification systems such as reverse the 9-1-1 systems, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.

19	Public Information	Village Administrator	6-1-23	5-31-28	LOC; HSGP; EMPG; PDM; BRIC
----	--------------------	-----------------------	--------	---------	----------------------------------

4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms, and encourage renters to purchase insurance on the contents to facilitate replacement of items necessary for daily activities.					
20	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
4.3 The village will work to maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.					
21	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; HSGP
4.4 The village will develop public service announcements, flyers, or other written tools to be used after significant incidents that advise people with functional, economic, medical, and social needs where to request assistance for their individual situation. Include in this announcement resources for behavioral, therapeutic, medical, and home health resources					
22	Public Outreach	Village Administrator	6-1-23	5-31-28	LOC
4.5 The village will create a resource list for assistance to unique populations, including, but not limited to interpreters for non-English speaking persons, ASL or other communication assistance for sensory-challenged victims, and social workers for providing help to transient, temporary, or disadvantaged populations who need help after significant events					
23	Protection	Village Administrator	6-1-23	5-31-28	LOC

3.3.3 Alger

The small village of Alger is self-sufficient and resilient. It is located several miles from Kenton, and can be cut off from resources and services due to **damaged, impassable or closed roads, response priorities that focus on larger population centers,** or service outages. The village has some flooding and it sits on a state highway that causes **significant** traffic to pass through the village. There are no ditches or streams inside the village and there are no railroads that pass through the town. Alger officials are most concerned about flash flooding, any type of severe storm, and communication with residents and the rest of the county. **Small sections of Alger have recently been added to the identified flood risk maps.**

Table 3-4: Alger Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF ALGER WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.					
1	Prevention	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA
1.2 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.					
2	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; HMGP
1.3 The village will create natural habitat or vegetative buffers in areas that retain floodwater, and will advocate for maintenance of ditches and streams near the village to reduce flooding and facilitate drainage.					

3	Property Protection	Mayor	6-1-23	5-31-28	LOC
1.4 The village will investigate, develop, and improve storm sewers and drainage systems where it will alleviate flooding.					
4	Property Protection	Mayor	6-1-23	5-31-28	LOC; CDBG
1.5 The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed.					
5	Property Protection	Mayor	6-1-23	5-31-28	LOC
2. THE VILLAGE OF ALGER WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING OR HAIL					
2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages					
6	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.2 The village will advocate and plan for protective actions and resources such as storm shelters, the construction of safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.					
7	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.3 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services.					
8	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HSGP; EMPG
3. THE VILLAGE OF ALGER WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES.					
3.1 The village will advocate for improvement and strictly enforce highway regulations and place adequate signage to help vehicles hauling hazardous chemicals to move through the village safely and easily.					
9	Prevention	Mayor	6-1-23	5-31-28	LOC
3.2 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.					
10	Property Protection	Mayor	6-1-23	5-31-28	LOC; HSGP; EMPG; Other
3.3 The village will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.					
11	Protection	Mayor	6-1-23	5-31-28	LOC
4. THE VILLAGE OF ALGER WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES					
4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.					

12	Public Information	Mayor	6-1-23	5-31-28	LOC; HSGP; EMPG; PDM
4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms. They will encourage renters to purchase renters' policies to cover their personal property losses in disasters.					
13	Public Information	Mayor	6-1-23	5-31-28	LOC
4.3 The village will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.					
14	Pubic Information	Mayor	6-1-23	5-31-28	LOC; HSGP; EMPG
4.4 In consideration of higher precipitation amounts and winds over the recent past, consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.					
15	Property Protection	Mayor	6-1-23	5-31-28	LOC
4.5 The village will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.					
16	Protection	Mayor	6-1-23	5-31-28	LOC

3.3.4 Dunkirk

Dunkirk is located in north central Hardin County and is home to many residents with a long history of Hardin County residence. The village is populated with individuals who work in and around Dunkirk and Kenton and farmers who till the rich soils around the village. The officials are concerned about flooding and access issues, hazardous materials from rail or highway incidents, and severe storms. **There are intersection rail lines near the village, and this causes extra concern over potential rail accidents. As State Route 68 runs through the village, the chance of a vehicle-train crash is also higher than average.**

Table 3-5: Dunkirk Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF DUNKIRK WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 The village will protect properties from flooding through the use of elevation, safe rooms , acquisition and demolition, and improvement and enforcement of building codes and construction standards.					
1	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC ; FMA; HMGP
1.2 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.					
2	Prevention	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC ; HMGP; FMA; ICC; Other
1.4 The village will implement improvements and maintenance of storm sewers and drainage systems where it will alleviate flooding.					

3	Structurally Engineered Solutions	Mayor	6-1-23	5-31-28	LOC; ICC; Other
1.5 The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed					
4	Property Protection	Mayor	6-1-23	5-31-28	LOC
2. THE VILLAGE OF DUNKIRK WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING OR HAIL.					
2.1 The village will advocate for and implement programs to trim trees and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer and other invasive species.					
5	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.2 The village will advocate and plan for protective actions and resources such as storm shelters, the construction of safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.					
6	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; PDM; BRIC
2.3 The village will advocate for the hardening of utilities through system improvements and maintenance replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.					
7	Property Protection	Mayor	6-1-23	5-31-28	LOC; ICC; Other
2.4 The village will clear streets and alleys of debris, snow, and ice in a timely fashion after storms so that residents and businesses can have access to properties and are able to move about the village in an effort to maintain business and activities as much as possible, and to keep schools open and/or minimize closures.					
8	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.5 In consideration of higher precipitation amounts and winds over the recent past, the village will consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.					
9	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.6 The village will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.					
10	Protection	Mayor	6-1-23	5-31-28	LOC
3. THE VILLAGE OF DUNKIRK WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS OR CRASHES.					
3.1 The village will advocate for intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.					
11	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; Other
3.2 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property and in relation to working with mutual aid and hazardous materials external resources.					

12	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; Other
3.3 The village will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.					
13	Property Protection	Fire Chief	6-1-23	5-31-28	LOC
4. THE VILLAGE OF DUNKIRK WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.					
4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios and other means of distribution timely emergency information to the public.					
14	Public Information	Fire Chief	6-1-23	5-31-28	LOC; HSGP; EMPG; PDM; BRIC
4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms. They will also advocate that renters purchase renter’s insurance to help with costs after disasters.					
15	Property Protection	Mayor	6-1-23	5-31-28	LOC
4.3 The village will work to provide and maintain adequate communication equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.					
16	Property Protection	Mayor	6-1-23	5-31-28	LOC; HSGP
4.4 The village will distribute information to the public that gives directives for protective actions and disaster preparedness for individuals and businesses.					
17	Public Information	Mayor	6-1-23	5-31-28	LOC
5. THE VILLAGE OF DUNKIRK WILL MONITOR THE POTENTIAL EFFECT AN EARTHQUAKE WOULD HAVE UPON THE VILLAGE.					
5.1 The village will monitor any nearby earthquake incidents and maintain an awareness of any transportation or structural infrastructure that would likely be negatively impacted by an incident.					
18	Property Protection	Mayor	6-1-23	5-31-28	LOC
6. THE VILLAGE OF DUNKIRK WILL LESSEN THE IMPACT OF EROSION ON THE NATURAL RESOURCES IN THE VILLAGE.					
6.1 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from drainage areas to reduce flash flooding and facilitate slower, less destructive natural drainage.					
19	Natural Resource Protection	Mayor	6-1-23	5-31-28	LOC

3.3.5 Forest

This village is in the northeast quadrant of Hardin County and sits at the juncture of two state highways. Their risks are flooding, severe storms, and transportation accidents causing hazardous materials spills. They are far enough from metropolitan resources that they must establish and maintain response assets, resiliency and self-sufficiency.

Table 3-6: Forest Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF FOREST WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					

1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations (zoning, subdivision and building codes) and by acquiring and demolishing repetitive loss properties.

1	Prevention	Village Administrator	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA
---	------------	-----------------------	--------	---------	---------------------------------

1.2 The village will protect properties from flooding through the use of elevation, **safe rooms**, acquisition and demolition, and improvement and enforcement of building codes and construction standards.

2	Property Protection	Village Administrator	6-1-23	5-31-28	LOC; PDM; BRIC
---	---------------------	-----------------------	--------	---------	-------------------

1.3 The village will clear debris blockages for waterway and maintain ditches and streams to reduce flooding by facilitation of natural drainage.

3	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
---	---------------------	-----------------------	--------	---------	-----

1.4 The village will **maintain** storm sewers and water control structures to reduce the incidence of flooding and flash flooding.

4	Property Protection	Village Administrator	6-1-23	5-31-28	LOC; Other
---	---------------------	-----------------------	--------	---------	------------

1.5 **The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed.**

5	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
---	---------------------	-----------------------	--------	---------	-----

2. THE VILLAGE OF FOREST WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.

2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages.

6	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
---	---------------------	-----------------------	--------	---------	-----

2.2 The village will advocate and plan for protective actions and resources such as storm shelters, **construction of** safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.

7	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; PDM; BRIC
---	---------------------	------------	--------	---------	-------------------

2.3 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services, including water service.

8	Property Protection	Village Administrator	6-1-23	5-31-28	LOC; ICC; Other
---	---------------------	-----------------------	--------	---------	--------------------

2.4 The village will clear streets and alleys of debris, snow, and ice in a timely fashion after storms so that residents and businesses can have access to properties and are able to move about the village in an effort to maintain business and activities as much as possible.

9	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
---	---------------------	-----------------------	--------	---------	-----

2.5 The village will protect natural resources by reducing damage to waterways and roadways through slope and berm protection and by establishing programs such as windbreak projects to reduce the erosion of soils by wind or water.

10	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

2.6 In consideration of higher precipitation amounts and winds over the recent past, consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.

11	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
2.7 The village will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.					

12	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

3. THE VILLAGE OF FOREST WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.

3.1 The village will advocate for improvement and strictly enforce highway regulations and place adequate signage to help vehicles hauling hazardous chemicals to move through the village safely and easily.

13	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

3.2 The village will **maintain efforts to have** adequately sized and placed intersections and road or rail designs that enable trucks and trains to move safely through the village without undue and difficult maneuvering of vehicles.

14	Property Protection	Village Administrator	6-1-23	5-31-28	LOC
----	---------------------	-----------------------	--------	---------	-----

3.3 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.

15	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; HSGP
----	---------------------	------------	--------	---------	-----------

3.4 The village will **continue to** advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.

16	Property Protection	Fire Chief	6-1-23	5-31-28	LOC: Other
----	---------------------	------------	--------	---------	------------

3.5 The village will **assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.**

17	Property Protection	Fire Chief	6-1-23	5-31-28	LOC
----	---------------------	------------	--------	---------	-----

4. THE VILLAGE OF FOREST WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.

4.1 The village will **maintain** public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.

18	Public Information	Village Administrator	6-1-23	5-31-28	LOC; HSGP; EMPG; PDM; BRIC
----	--------------------	-----------------------	--------	---------	----------------------------------

4.2 The village will advocate that property owners **and renters** purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacements and repair to property after damaging storms.

19	Public Information	Village Administrator	6-1-23	5-31-28	LOC
----	--------------------	-----------------------	--------	---------	-----

4.3 The village will **maintain** adequate communication equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.

20	Property Protection	Village Administrator	6-1-23	5-31-28	LOC; HSGP
----	---------------------	-----------------------	--------	---------	-----------

3.3.6 Kenton

The city is the largest jurisdiction and the county's hub of business and industry. The city is a local manufacturing center as well as a retail and business core for the county; most government services are located in Kenton. Raw products, hazardous chemicals and grey goods, and other components of manufacturing are hauled through the city by road and rail as several state highways come together in the downtown area.

With large trucks and tankers turning right and left at literally every intersection, there is significant risk of hazardous materials spills and leaks because of a collision in the downtown or outskirts of town. There is also a set of railroad tracks that goes through town in several places, especially on the south side in the industrial area of the city. The Scioto River also passes through this same area, setting the stage for a potential trifecta that includes a vehicle/semi-truck crash, derailment and waterway contamination the city's horror-story of a disaster. Dependent upon where cars, trucks and other debris fell, this incident could completely isolate first responders from one side of the incident by blocking roadways and preventing fluid movement of resources and assets. Victims could easily be on one side of the incident and rescuers on the other, unable to reach them without significant travel and time consumption.

Kenton is vulnerable to flash flooding and some of its infrastructure is outdated and in need of replacement, with special emphasis upon the water distribution lines. Wind, tornado, and ice can damage trees, ruin vegetation, and string storm debris from street to street. The city struggles to keep up with infrastructure repairs and maintenance and to eliminate abandoned and unused buildings that easily become casualties after severe weather. Power outages can add insult to injury for residents, as can drainage that takes away berms and culverts that then require extensive repairs. Kenton sits in the center of the county and is vulnerable to virtually every threat possible elsewhere in Hardin County **except dam failure and drought/extreme heat.**

Table 3-7: Kenton Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE CITY OF KENTON WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.					
1.1 The city will advocate for improved truck and vehicle routes through the city to limit turns and reducing speed, and will advocate for improvements to signage that guides vehicles hauling hazardous chemicals through the city to prevent confusion of drivers and make the routes more easily navigated.					
1	Property Protection	Safety Service Director	6-1-23	6-1-23	LOC; Other
1.2 The city will advocate for adequately sized and placed intersections, crossings, and routes as well as road and rail designs that enable trucks and trains to move safely through the city without undue and difficult maneuvering or navigating of vehicles.					
2	Property Protection	Safety Service Director	6-1-23	6-1-23	LOC; Other

1.3 The city will continue to provide training, adding train derailment and/or traffic incident simulation exercises to current efforts, and will maintain up-to-date equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.					
3	Property Protection	Safety Service Director	6-1-23	6-1-23	LOC; Other
1.4 The city will advocate for reduced speed limits for trains and vehicles, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.					
4	Property Protection	Fire Chief	6-1-23	6-1-23	LOC; Other
1.5 The city will make improvements to its water distribution system, including replacement of water mains and distribution lines, catch basins, and fire hydrants; implementation of a well head protection program, and will establish a grid system of hydrants, to facilitate response to a hazardous materials incident that could involve extensive firefighting tactics or major decontamination of victims or equipment.					
5	Property Protection	Fire Chief	6-1-23	6-1-23	LOC; PDM; BRIC; CDBG; Other
1.6 The city will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.					
6	Protection	Fire Chief	6-1-23	5-31-28	LOC
2. THE CITY OF KENTON WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
2.1 The city will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestations such as the Emerald Ash Borer, and will document progress in an effort to enhance effectiveness and citywide coverage.					
7	Property Protection	Safety Service Director	6-1-23	5-31-28	LOC
2.2 The city will maintain plans for protective actions and resources such as storm shelters, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible. The city will support residents' grant applications and efforts to install safe rooms on their property.					
8	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; PDM; BRIC
2.3 The city will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, creation of GIS maps for city utilities, and creation of procedures to compensate for interrupted utility services, including water service.					
9	Property Protection	Safety Service Director	6-1-23	5-31-28	LOC; ICC; Other
2.4 The city will protect natural resources by reducing damage to waters and streets through slope and berm protection, and by establishing programs such as windbreak projects to reduce the erosion of soils by wind or water.					
10	Natural Resource Protection	Safety Service Director	6-1-23	5-31-28	LOC; ICC; Other

2.5 In consideration of higher precipitation amounts and winds over the recent past, the city will change and strengthen building codes, especially in the downtown and for rental properties, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.					
11	Property Protection	City Engineer	6-1-23	5-31-28	LOC
2.6 The city will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.					
12	Protection	Safety Service Director	6-1-23	5-31-28	LOC
3. THE CITY OF KENTON WILL WORK TO REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
3.1 The city will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, participation in NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by identification of structural hazards that threaten safety in the city, and then acquiring and demolishing repetitive loss properties as well as documenting all mitigation activities that take place.					
13	Prevention	Safety Service Director	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; HMGP; ICC; Other
3.2 The city will utilize structurally engineered solutions to manage flooding through use of reservoirs, detention ponds, channel diversion to new or existing properties, or through improvement and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.					
14	Structurally Engineered Solutions	Safety Services Director	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; HMGP
3.3 The city will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of existing and new building codes and construction standards.					
15	Property Protection	Safety Services Director	6-1-23	5-31-28	LOC; PDM; BRIC; Other
3.4 The city will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways and catch basins, and maintenance of ditches and streams as measures to reduce flooding and facilitate drainage.					
16	Natural Resource Protection	Safety Services Director	6-1-23	5-31-28	LOC; PDM; BRIC
3.5 The city will create GIS utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed.					
17	Property Protection	Safety Services Director	6-1-23	5-31-28	LOC
3.6 The city will establish a storm sewer enterprise fund for the purpose of identifying, improving, and addressing problem areas of street flooding, and will ensure that all improvements help the city meet EPA and other requirements as well as enhancing disaster mitigation.					
18	Property Protection	Safety Services Director	6-1-23	5-31-28	LOC

4. THE CITY OF KENTON WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATIONS AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.

4.1 The city will **improve and maintain effective** public warning and notification systems such as reverse 9-1-1, **upgrades and/or replacement of** outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.

19	Public Information	Safety Service Director	6-1-23	5-31-28	LOC; HSGP; EMPG; PDM; BRIC
----	--------------------	-------------------------	--------	---------	----------------------------

4.2 The city will **maintain** adequate communications equipment for first responders to ensure the ability to communicate with each other and with other departments and resources during response to storms.

20	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; HSGP
----	---------------------	------------	--------	---------	-----------

4.3 The city will **continue to provide** important information that will guide **residents** to take protective actions during disaster incidents and to establish preparedness prior to any incident that is possible.

21	Public Information	Fire Chief	6-1-23	5-31-28	LOC
----	--------------------	------------	--------	---------	-----

4.4- The city will **develop public service announcements, flyers, or other written tools to be used after significant incidents that advise people with functional, economic, medical, and social needs where to request assistance for their individual situation. Include in this announcement resources for behavioral, therapeutic, medical, and home health resources**

22	Protection	Fire Chief	6-1-23	5-31-28	LOC
----	------------	------------	--------	---------	-----

4.5 The city will create a resource list for assistance to unique populations, including, but not limited to interpreters for non-English speaking persons, ASL or other communication assistance for sensory-challenged victims, and social workers for providing help to transient, temporary, or disadvantaged populations who need help after significant events.

22	Public Outreach	Fire Chief	6-1-23	5-31-28	LOC
----	-----------------	------------	--------	---------	-----

5. THE CITY OF KENTON WILL IMPLEMENT A PROGRAM TO ELIMINATE OR REDUCE DAMAGES FROM WORSENING STORMS, CHANGING WEATHER PATTERNS AND NEW THREATS AS WELL AS TO LIMIT OUTAGES AND INTERRUPTIONS IN SERVICES DUE TO STORMS AND OTHER WEATHER EVENTS THAT ARE MORE INTENSE THAN IN THE PAST.

5.1 The city will identify and replace street and road foundations that are deteriorated or worn out.

23	Structurally engineered project	Safety Services Director	6-1-23	5-31-28	LOC, PDM, BRIC, Other
----	---------------------------------	--------------------------	--------	---------	-----------------------

5.2 The city will identify system failures and shortages, and repair or replace sanitary sewer collection systems that address mitigate flooding or impaired flow, as well as eliminating inflow and infiltration.

24	Structurally engineered project	Safety Services Director	6-1-23	5-31-28	LOC, PDM, BRIC, Other
----	---------------------------------	--------------------------	--------	---------	-----------------------

5.3 The city will identify concerns and upgrades the water distribution system as a way to limit outages during or after storms, and will begin planning for a new water treatment facility to further improve resiliency of the water system.

25	Structurally engineered project	Safety Services Director	6-1-23	5-31-28	LOC, PDM, BRIC, Other
----	---------------------------------	--------------------------	--------	---------	-----------------------

5.4 The city will advocate for and support the addition of two-way radio communications using the MARCS radios for local schools as a way to improve storm-related communications during and after events, and to improve the safety of school children and staff during storms.

26	Property Protection	Safety Services Director	6-1-23	5-31-28	LOC; OSSP, HMGP, Other
5.5 The city will study and implement improvements to traffic patterns, especially near the schools or other critical facilities, to reduce vehicle accidents and safety after storms and other intense weather events.					
27	Property Protection	Safety Services Director	6-1-23	5-31-28	LOC
5.6 The city will improve training and preparedness of responders to handle solar fields, wind turbines, and electrically powered vehicles after storms and other emergencies.					
28	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; Other
6.0 THE CITY OF KENTON WILL LESSEN THE NEGATIVE IMPACT OF AN EARTHQUAKE ON PROPERTY IN THE CITY.					
6.1 the city will maintain awareness of critical infrastructure and/or transportation infrastructure that could be impacted by an earthquake and will assess its condition should an earthquake occur.					
29	Property Protection	Safety Services Director	6-1-23	5-31-28	LOC

3.3.7 McGuffey

McGuffey is a small village in west central Hardin County. The village’s concerns include deteriorating infrastructure, flash flooding, and hazardous materials incidents. Trucks carrying hazardous materials travel through the entire length of the village. They are on the edge of an area of muck soils that have little stability and are unsuitable for foundations. While the soils support vegetable production, they risk dust bowl kinds of storms, soils catching fire, and extreme loss of topsoil under windy conditions. The small village is most compromised by financial constraints that prevent the upkeep and replacement of infrastructure that they feel is necessary, and the placement of most residents outside the village during workdays due to their jobs at other locations. Some areas of McGuffey are now in the new flood risk maps as floodplain area.

Table 3-8: McGuffey Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF MCGUFFEY WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, resolving the sanction and joining NFIP, compliance with land use regulations in place, and by acquiring and demolishing repetitive loss properties.					
1	Prevention	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; ICC; Other
1.2 The village will utilize structurally engineered solutions to manage flooding through creation of reservoirs, detention ponds, channel diversion, or improvement and/or maintenance of storm sewers and drainage systems.					

2	Structurally Engineered Solutions	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; HMGP; CDBG; Other
1.3 The village will protect properties from flooding through the use of elevation, safe rooms, acquisition and demolition, and improvement and enforcement of building codes and construction standards.					
3	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; HMGP; ICC; Other
1.4 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from ditches, and maintenance of ditches and streams to reduce flooding and facilitate natural drainage.					
4	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; CDBG; ICC; Other
1.5 The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed.					
5	Property Protection	Mayor	6-1-23	5-31-28	LOC
2. THE VILLAGE OF MCGUFFEY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
2.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages.					
6	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.2 The village will advocate and plan for protective actions and resources such as storm shelters, construction of safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.					
7	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC
2.3 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services.					
8	Property Protection	Mayor	6-1-23	5-31-28	LOC; ICC
2.4 The village will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.					
9	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.5 In consideration of higher precipitation amounts and winds over the recent past, the village will consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.					
10	Property Protection	Mayor	6-1-23	5-31-28	LOC
3. THE VILLAGE WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES.					

3.1 The village will advocate for strict enforcement of highway regulations and adequate signage to help vehicles hauling hazardous chemicals move through the area safely and easily.					
11	Property Protection	Mayor	6-1-23	5-31-28	LOC
3.2 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on highways and streets and in working with mutual aid and hazardous materials external resources.					
12	Property Protection	Mayor	6-1-23	5-31-28	LOC
3.3 The village will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.					
13	Property Protection	Mayor	6-1-23	5-31-28	LOC
4. THE VILLAGE WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING AND AFTER SEVERE STORMS, AND OTHER EMERGENCIES.					
4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.					
14	Public Information	Mayor	6-1-23	5-31-28	LOC; GHGP; EMGP; PDM; BRIC
4.2 The village will advocate that property owners purchase adequate and appropriate casualty insurance coverage to help with the cost of replacement and repair to property after damaging storms.					
15	Property Protection	Mayor	6-1-23	5-31-28	LOC
4.3 The village will work to provide and maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.					
16	Property Protection	Mayor	6-1-23	5-31-28	LOC; HSGP

3.3.8 Mount Victory

Mount Victory sits in the far southeast corner of Hardin County. Many residents work out of town in various manufacturing plants to the east and south. A Conrail railroad track runs through town and approximately 32 trains pass through the center of the village every day. Wildcat Creek runs through town, and several state highways. Village officials are concerned about flooding, storm damage, and hazardous materials incidents. **They intend to work with ODNR to create an Emergency Action Plan for the wastewater lagoon they own in Hale Township. An incident would most likely be caused by overtopping due to flooding.**

Table 3-9: Mount Victory Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF MOUNT VICTORY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
1.1 The village will advocate for the replacement of alternate power supply equipment, establishment of additional alternate power sources and redundant suppliers.					
1	Property Protection	Mayor	6-1-23	5-31-28	LOC; ICC; Other

1.2 The village will advocate and plan for protective actions and resources such as storm shelters, **construction of** safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.

2	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC
---	---------------------	-------	--------	---------	-------------------

1.3 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages, especially where trees have been adversely affected by infestation such as the Emerald Ash Borer **and other invasive species.**

3	Property Protection	Mayor	6-1-23	5-31-28	LOC
---	---------------------	-------	--------	---------	-----

1.4 **In consideration of higher precipitation amounts and winds over the recent past, the village will consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future**

4	Property Protection	Mayor	6-1-23	5-31-28	LOC
---	---------------------	-------	--------	---------	-----

1.5 **The village will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers**

5	Protection	Mayor	6-1-23	5-31-28	LOC
---	------------	-------	--------	---------	-----

2. THE VILLAGE OF MOUNT VICTORY WILL REDUCE THE EFFECTS FO FLOODING AND FLASH FLOODING.

2.1 The village will utilize structurally engineered solutions to manage flooding through the use of reservoirs, detention ponds, or improvements and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.

6	Structurally Engineered Solutions	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; CDBG; Other
---	-----------------------------------	-------	--------	---------	---

2.2 The village will prevent flooding through the use of regulations including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations (zoning, subdivision, and building codes), and by acquiring and demolishing repetitive loss properties.

7	Prevention	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; ICC; Other
---	------------	-------	--------	---------	--

2.3 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams to reduce flooding and facilitate drainage.

8	Natural Resource Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; CDBG; ICC; Other
---	-----------------------------	-------	--------	---------	--

2.4 **The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed.**

9	Property Protection	Mayor	6-1-23	5-31-28	LOC
---	---------------------	-------	--------	---------	-----

3. THE VILLAGE OF MOUNT VICTORY WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.

3.1 The village will advocate for adequate signage to help vehicles hauling hazardous chemical move through the village safely and easily.

11	Property Protection	Mayor	6-1-23	5-31-28	LOC; Other
----	---------------------	-------	--------	---------	------------

3.2 The village will advocate for reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.

12	Property Protection	Mayor	6-1-23	5-31-28	LOC: Other
----	---------------------	-------	--------	---------	------------

3.3 The village will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.

13	Property Protection	Mayor	6-1-23	5-31-28	LOC
----	---------------------	-------	--------	---------	-----

4. THE VILLAGE OF MOUNT VICTORY WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES, AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.

4.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.

14	Public Information	Mayor	6-1-23	5-31-28	LOC; HSGP; EMPG; PDM; BRIC
----	--------------------	-------	--------	---------	----------------------------------

4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms.

15	Property Protection	Mayor	6-1-23	5-31-28	LOC
----	---------------------	-------	--------	---------	-----

5. THE VILLAGE OF MT. VICTORY WILL WORK TO LESSEN THE LIKELIHOOD AND IMPACT OF DAM FAILURE AT ITS UPGROUND RESERVOIR LOCATED OUTSIDE THE VILLAGE INCORPORATION LIMITS.

5.1 The village will work with the Ohio Department of Natural Resources to develop and obtain approval for an Emergency Action Plan for the Village of Mount Victory Wastewater Lagoon located in Hale Township to better identify vulnerable property and establish identification of and response to overtopping or structural failure of the lagoon

16	Property Protection	Mayor	6-1-23	5-31-28	LOC HMGP
----	---------------------	-------	--------	---------	-------------

5.2 The village will work with ODNR to assess the current condition of the upground reservoir and will develop a plan to implement improvement to the physical condition of the dam.

17	Structurally Engineered Project	Mayor	6-1-23	5-31-28	BRIC PDM LOC HMGP
----	---------------------------------	-------	--------	---------	----------------------------

5.3 The village will monitor the potential for an earthquake, and if there is reason to believe an earthquake is imminent or has occurred, will immediately assess the condition of the Wastewater Lagoon to identify and respond to any damage or increased risk of failure.

18	Property Protection	Mayor	6-1-23	5-31-28	LOC
----	---------------------	-------	--------	---------	-----

3.3.8 Patterson

Patterson is a very small village of 139 residents located southwest of Forest. The village works closely with Forest to provide emergency responders for its residents. Patterson struggles to fund infrastructure improvements and is especially challenged to provide critical services to its residents under today's mandates simply due to its low population and rural location. Village officials work closely with other communities and the county to serve their residents, and oftentimes community spirit and concern for one another is what serves them best.

Table 3-9: Patterson Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF PATTERSON WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING.					
1.1 The village will develop floodplain regulations and join NFIP, enabling local residents to purchase flood insurance if necessary.					
1	Prevention	Mayor	6-1-23	5-31-28	LOC
1.2 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams to reduce flooding and facilitate drainage.					
2	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; CDBG; ICC; Other
1.3 The village will complete improvements to storm sewers through maintenance, repair, and upgrades or replacement to the degree they can financially support the strategy.					
3	Structurally Engineered Solutions	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; CDBG; ICC; Other
1.4 The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed.					
4	Property Protection	Mayor	6-1-23	5-31-28	LOC
2. THE VILLAGE OF PATTERSON WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.					
2.1 The village will trim trees and remove debris in culverts and ditches on village property, and will encourage private landowners to maintain their property in the same fashion.					
4	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.2 The village will support the installation and/or construction of safe rooms for single and multi-family homes and other structures, at their individual expense, without basements or shelter to give protection in tornadoes and strong windstorms.					
5	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC
2.3 The village will establish an alternate power source for village property to be available during extended power outages or during extreme weather conditions.					

6	Property Protection	Mayor	6-1-23	5-31-28	LOC; ICC; Other
2.4 The village will protect natural resources by reducing damage to waterways and roadways through slope and berm protection, and by establishing programs such as windbreak projects to reduce erosion of soil by wind or water.					
7	Natural Resource Protection	Mayor	6-1-23	5-31-28	LOC; ICC; Other
2.5 In consideration of higher precipitation amounts and winds over the recent past, the village will consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.					
	Property Protection	Mayor	6-1-23	5-31-28	LOC
2.6 The village will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.					
	Protection	Mayor	6-1-23	5-31-28	LOC
3. THE VILLAGE OF PATTERSON WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICAITONS AT IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.					
3.1 The village will establish, maintain, improve, and promote public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems weather radios, and other means of distributing timely emergency information to the public.					
8	Public Information	Mayor	6-1-23	5-31-28	LOC; HSGP; EMPG; PDM; BRIC
3.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property after damaging storms. They will advocate that renters purchase insurance to cover personal property and possessions.					
9	Property Protection	Mayor	6-1-23	5-31-28	LOC
3.3 The village will advocate for adequate communication equipment for first responders to ensure the ability to communicate with village administration and responders during severe incidents.					
10	Property Protection	Mayor	6-1-23	5-31-28	LOC; HSGP
3.4 The village will advocate and plan for protective actions and resources such as storm shelters, construction of safe rooms, overnight sheltering, evacuation as needed, and re-entry in an organized and methodical manner that maintains as safe an environment as possible.					
11	Property Protection	Mayor	6-1-23	5-31-28	LOC
4. THE VILLAGE OF PATTERSON WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.					
4.1 The village will advocate for improvement and strict enforcement of highway regulations and placement of adequate signage to help vehicles hauling hazardous chemicals move through the village safely and easily.					
12	Property Protection	Mayor	6-1-23	5-31-28	LOC; Other

4.2 The village will support training and equipment for first responders to use in the management of and response to hazardous materials incidents on the highways and streets, nearby railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.

13	Property Protection	Mayor	6-1-23	5-31-28	LOC; Other
----	---------------------	-------	--------	---------	------------

4.3 The village will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.

	Protection	Mayor	6-1-23	5-31-28	LOC
--	------------	-------	--------	---------	-----

3.3.9 Ridgeway

Ridgeway is located in the southern part of Hardin County. It is a small rural village and can become isolated from other communities because of the distance from other cities. The village is a crossroads of rail and highways, and several ditches and streams surround the village. Flash flooding is a risk for this small community, as are hazardous materials spills. A derailment could easily cause problems in Ridgeway and necessitate protective actions.

Table 3-10: Ridgeway Mitigation Goals and Strategies

Priority	Action Type	Lead Agency	Start Date	End Date	Funding
1. THE VILLAGE OF RIDGEWAY WILL REDUCE THE EFFECTS OF FLOODING AND FLASH FLOODING					
1.1 The village will prevent flooding through the use of regulation including, but not limited to, adoption of flood risk maps, joining NFIP, compliance with land use regulations in place (zoning, subdivision and building codes), and by acquiring and demolishing repetitive loss properties.					
1	Prevention	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; ICC; Other
1.2 The village will utilize structurally engineered solutions to manage flooding through the use of reservoirs, detention ponds, channel diversion to new or existing properties, or through improvement and/or maintenance of storm sewers and drainage systems where it will alleviate flooding.					
2	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; HMGP; FMA; CDBG; Other
1.3 The village will support their residents protect properties from flooding through the construction of safe rooms, at their own expense, through the Ohio EMA Safe Room Program.					
3	Property Protection	Mayor	6-1-23	5-31-28	PDM; BRIC; Other
1.4 The village will use creation of natural habitat or vegetative buffers, clearing of debris blockages from waterways, and maintenance of ditches and streams to reduce flooding and facilitate drainage.					
4	Natural Resource Protection	Mayor	6-1-23	5-31-28	LOC; PDM; BRIC; FMA; CDBG; ICC; Other

1.5 The village will create utility maps showing utility distribution lines, substations generators, pump stations, sewer and sanitary sewer lines, and other critical resources are all mapped on one document for ease of management during severe storms and incidents, and to aid in development planning as building projects are proposed.

5	Property Protection	Mayor	6-1-23	5-31-28	LOC
---	---------------------	-------	--------	---------	-----

2. THE VILLAGE OF RIDGEWAY WILL REDUCE VULNERABILITY TO AND DAMAGES FROM INCIDENTS CAUSED BY HAZARDOUS MATERIALS SPILLS AND RELEASES, INCLUDING THOSE CAUSED BY VEHICLE CRASHES OR TRAIN DERAILMENTS.

2.1 The village will advocate for improvement and strict enforcement of transportation regulations and place adequate signage to help vehicles hauling hazardous chemicals move through the village safely and easily.

6	Property Protection	Mayor	6-1-23	5-31-28	LOC; Other
---	---------------------	-------	--------	---------	------------

2.2 The village will advocate for adequate road and rail design that enables trucks and trains to move safely through the village without undue and difficult maneuvering of vehicles.

7	Property Protection	Mayor	6-1-23	5-31-28	LOC; Other
---	---------------------	-------	--------	---------	------------

2.3 The village will provide training and equipment for first responders to use in the management of and response to hazardous materials incidents on highways, streets, railroads, and other property, and in relation to working with mutual aid and hazardous materials external resources.

8	Property Protection	Fire Chief	6-1-23	5-31-28	LOC; HSGP
---	---------------------	------------	--------	---------	-----------

2.4 The village will advocate reduced speed limits, intersection and crossing blockage limitations, additional highway signage, and enforcement of all commercial transportation regulations and operator competency testing to reduce the incidence of hazardous materials spills and releases.

9	Property Protection	Fire Chief	6-1-23	5-31-28	LOC: Other
---	---------------------	------------	--------	---------	------------

2.5 The village will assess the community risk of exposure posed by in-transit and fixed facility hazardous chemicals, and will work to anticipate protective actions, community services, and recovery activities necessary should a significant spill or release occur that involves extremely hazardous substances.

10	Property Protection	Mayor	6-1-23	5-31-28	LOC
----	---------------------	-------	--------	---------	-----

3. THE VILLAGE OF RIDGEWAY WILL REDUCE THE EFFECTS OF SEVERE STORMS THAT INCLUDE ANY COMBINATION OF WIND, HEAVY PRECIPITATION, EXTREME TEMPERATURES, LIGHTNING, OR HAIL.

3.1 The village will advocate for and implement programs to trim trees, clear ditches and streams of debris, and take other actions to protect property from storm damages.

11	Property Protection	Mayor	6-1-23	5-31-28	LOC
----	---------------------	-------	--------	---------	-----

3.2 The village will advocate for the hardening of utilities through system improvements and maintenance, replacement of equipment, establishment of alternate power sources and redundant suppliers, and creation of procedures to compensate for interrupted utility services.

12	Property Protection	Mayor	6-1-23	5-31-28	LOC; ICC: other
----	---------------------	-------	--------	---------	-----------------

3.3 The village will maintain plans for protective actions and resources such as storm shelters, construction of safe rooms, overnight sheltering, evacuation as needed and re-entry in an organized and methodical manner that maintains as safe an environment as possible.

13	Property Protection	Mayor	6-1-23	5-31-28	LOC; PDM
----	---------------------	-------	--------	---------	----------

3.4 The village will protect natural resources by reducing damage to waterways and roadways through slope and berm protection and by establishing programs such as windbreak projects to reduce the erosion of soils by wind or water.

14	Natural Resource Protection	Mayor	6-1-23	5-31-28	LOC; ICC: Other
----	-----------------------------	-------	--------	---------	-----------------

3.5 In consideration of higher precipitation amounts and winds over the recent past, the village will consider changes to and strengthening of building codes, insurance coverages, and development standards for the purpose of lessening the damage done to property by storms in the future.

15	Property Protection	Mayor	6-1-23	5-31-28	LOC
----	---------------------	-------	--------	---------	-----

3.6 The village will develop resources in communities to serve as a comfort station and/or information center, as well as a location for locally based assistance in a non-declared incident, after severe storms that do significant damage but do not cause the need to shelter large numbers of displaced residents or to open state and federal assistance centers.

16	Protection	Mayor	6-1-23	5-31-28	LOC
----	------------	-------	--------	---------	-----

4. THE VILLAGE OF RIDGEWAY WILL WORK TO IMPROVE AND MAINTAIN EFFECTIVE COMMUNICATION AS IT RELATES TO PUBLIC OUTREACH AND EMERGENCY MESSAGES AND AS IT FACILITATES COLLABORATION BETWEEN RESPONDERS BEFORE, DURING, AND AFTER SEVERE STORMS AND OTHER EMERGENCIES.

4.1 The village will maintain public warning and notification systems such as reverse 9-1-1, outdoor warning sirens, digital warning systems, weather radios, and other means of distributing timely emergency information to the public.

17	Public Information	Mayor	6-1-23	5-31-28	LOC; GSGP; EMPG; PDM; BR9C
----	--------------------	-------	--------	---------	----------------------------------

4.2 The village will advocate that property owners purchase adequate and appropriate casualty and property insurance coverage to help with the cost of replacement and repair to property and damaging storms.

18	Property Protection	Mayor	6-1-23	5-31-28	LOC
----	---------------------	-------	--------	---------	-----

4.3 The village will maintain adequate communications equipment for first responders to ensure the ability to communicate with other departments and resources during response to storms.

19	Property Protection	Mayor	6-1-23	5-31-28	LOC; HSGP
----	---------------------	-------	--------	---------	-----------

3.3.10 Strategy Descriptions

Each strategy developed by the jurisdictions was assigned a priority, action type, lead agency, timeline, and funding source. These elements are described below. While the specific information identified by each jurisdiction may change before a strategy is implemented, the exercise of assigning this information to each potential action required stakeholders to evaluate current resources and support programs to determine how to best reduce the effects of disaster.

Priority

Priority identifies the order of importance jurisdictions assigned to their strategies. Strategies may not be addressed in this exact order, depending on availability of funds and other circumstances. When assigning priority, jurisdictions considered the resources necessary to implement each potential action. Public information campaigns, plan enhancements, and the establishment of emergency protective measures were sometimes the highest priority and generally not significantly expensive. Upgrading communication and notification/warning systems was perhaps second because the acquisition of equipment involves procurement and budget process, therefore taking at least one budget year. Collaboration with other groups and comprehensive actions, due to the need to build trust and association between groups, would take longer to accomplish because it involved a two-phase action plan. Last on the completion

list generally were structural projects due to design time requirements, budget needs, and dependence upon outside funding sources through applications. The priorities of life safety, situation containment, and property conservation combined with budget and procurement needs were major factors in determining priority.

Action Type

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

- Natural Resource Protection – Reduce the impacts of natural hazards by preserving or restoring natural areas and their mitigation functions
- Prevention – Avoid hazard problems or stop impact from worsening
- Property Protection or Protection – Protect structures by modifying or strengthening building to withstand impact, or protecting people that may be impacted by an incident
- Public Information – Advise the public about hazards, hazardous areas, and mitigation techniques to protect people and property
- Structurally Engineered Project – Lessen the impact of a hazard by modifying the environment or progression of the hazard event through designed and engineered projects

Lead Agency

The lead agency is the entity charged with championing the strategy and ensuring that jurisdiction officials look for opportunities to complete the strategy over the five-year planning cycle. This agency may not have the authority or power to turn a strategy into a project, nor would the agency necessarily be responsible for project oversight or completion should the strategy develop into an actionable and funded project. Rather, the lead agency is responsible for coordinating the overall effort and plays a key role in championing the project or, by default, is the entity most appropriate to lead project development at the initial stage. If the strategy becomes an actual project, this agency would not be the sole entity involved in its execution. For accountability purposes, the strategy is assigned to a specific position and agency. When the strategy becomes a project, the jurisdiction will identify a project manager. The identified individual may or may not represent the lead agency assigned in this plan.

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 availability of funding or changes in priorities as other critical projects are adjusted to meet evolving community needs. When the plan was developed, these timelines fit logically within each jurisdiction's resources and support programs. As the county reviews this mitigation plan annually, this information will be reviewed, adjusted, and modified as appropriate.

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.

- CDBG – Community Development Block Grants
- FMA – Flood Mitigation Assistance Grant
- PDM – Pre-Disaster Mitigation Grant
- **BRIC – Building Resilient Infrastructure in Communities**
- HMGP – Hazard Mitigation Grant Program
- SRL – Severe Repetitive Loss Grant
- RFC – Repetitive Flood Claims Program
- COG – Clean Ohio Grant
- ICC – Increased Cost of Compliance
- LOC – Local Funds
- ST – State Funds
- H2OH – H2 Ohio Program
- OTH – Other

3.3.11 Hazard to Strategy Relationship

Every jurisdiction has at least one strategy to address reduction in risk for that hazard. Table 3-11 Hazard to Strategy Relationship lists each hazard, per jurisdiction, and identifies the strategies that pertain to each hazard.

Table 3-11 Hazard to Strategy Relationship

HAZARD-to-STRATEGY RELATIONSHIP	Hardin County	Ada	Alger	Dunkirk	Forest	Kenton	McGuffey	Mt. Victory	Patterson	Ridgeway
Dam Failure								5.1-2		
Drought/Extreme Heat	6.1									
Earthquake	5.1			5.1		6.1		5.3		
Erosion/Land Subsidence	3.6			6-1		2.4 3.4		2.3		1.4
Flood	1.1-11 3.1 3.9 3.11 4.1-7	1.5-5 4.1-5	1.1-5 4.1-5	1.1-5 4.1-4	1.1-5 4.1-3	3.1-6 4.1-5	1.1-5 4.1-3	1.1-5 2.1-4 4.1-2	1.1-4 3.1-4	1.1-5 4.1-3
Hazardous Materials Incident	2.1-7 3.7 4.1-7	2.1-6	3.1-3	3.1-3	3.1-5	1.1-6	3.1-3	3.1-3	4.1-3	2.1-5
Invasive Species	3.1	3.1		2.1		2.1				
Severe Thunderstorm	3.1-3 3.5 3.10-11 4.1-7	3.1-7 4.1-5	2.1-3 4.1-5	2.1-6 4.1-4	2.1-7 4.1-3	2.1-6 4.1-5 5.4-6	2.1-5 4.1-3	1.1-5 4.1-2	2.1-6 3.1-4	3.1-6 4.1-3
Tornado	3.1-3 3.5 3.10-11 4.1-7	3.1-7 4.1-5	2.1-3 4.1-5	2.1-6 4.1-4	2.1-7 4.1-3	2.1-6 4.1-5 5.4-6	2.1-5 4.1-3	1.1-5 4.1-2	2.1-6 3.1-4	3.1-6 4.1-3
Utility Failure	3.1 3.3-4 3.8-9 3.11	3.3 3.4	2.3	2.3	2.3	1.5 2.3 3.5 5.1-3	2.3	1.1	1.4 2.3	3.2

	4.1-7									
Windstorm	3.1-3 3.5 3.10-11 4.1-7	3.1-7 4.1-5	2.1-3 4.1-5	2.1-6 4.1-4	2.1-7 4.1-3	2.1-6 4.1-5 5.4-6	2.1-5 4.1-3	1.1-5 4.1-2	2.1-6 3.1-4	3.1-6 4.1-3
Winter storm	3.1-3 3.5 3.10-11 4.1-7	3.1-7 4.1-5	2.1-3 4.1-5	2.1-6 4.1-4	2.1-7 4.1-3	2.1-6 4.1-5 5.4-6	2.1-5 4.1-3	1.1-5 4.1-2	2.1-6 3.1-4	3.1-6 4.1-3

3.4 IMPLEMENTATION

The identified mitigation strategies are general actions that could be taken to reduce the negative impact of natural, human-caused, and technological disasters. 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. 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 Hardin County.

The Chamber and Business Alliance group works closely with the various county departments, municipalities, and townships to oversee development issues and the implementation of mitigation strategies during that process. Members in the organization include county and municipal representatives such as county commissioners and mayors and the Hardin County Regional Planning director. The planning group also includes representation from the business community, banks and credit unions, healthcare, real estate, education, extension service, energy and agriculture. They consider development initiatives, regulations and enforcement, approvals and appeals, and other community development activities.

The Hardin County Regional Planning Director works with communities in the county regarding land use planning, development, and code enforcement. He works with zoning and code enforcement officials to ensure building regulations, fire codes, and other rules and regulations are followed as development and expansion occurs. The City of Kenton and the villages of Ada and Forest have planning commissions that work with Regional Planning to expand and enhance development and land use in a positive way. Regional Planning takes the lead in considering all the various parts of new construction, renovations and improvements to commercial properties and capital projects.

The Chamber and Business Alliance and Regional Planning were key members of the Mitigation Planning Team and served to convey their concerns and goals to the larger development groups and audiences. When comprehensive or capital improvement plans are developed, implemented and evaluated, the RPC director is the key person who makes sure that all perspectives, including mitigation strategies, are considered and included. Therefore, the participation and inclusion of this group, through the director and his staff, was critical.

The EMA will monitor the implementation of mitigation strategies through ongoing communication with the aforementioned officials and stakeholders. When grant funding 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 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 of these strategies is the process, knowledge, and reasoning stakeholders put into their development. The mitigation planning process required stakeholders to work together to evaluate hazards and risks in their community. They were required to examine their local community, predict where and how damages would occur, and identify how potential damages could be reduced or eliminated. 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 all were appropriately represented in the planning process.

Ultimately, Hardin County has a comprehensive set of well-considered, relevant and effective solutions to problems that are likely to arise. As stakeholders considered how to solve potential problems, they used collaboration to address community-wide concerns. These strategies were original thoughts to reduce disaster vulnerability and loss at the local level.

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