

3.0 MITIGATION STRATEGIES

As the hazard mitigation planning team in Wood County developed mitigation goals and strategies, the intent was to address the identified risks and vulnerabilities for the county as a whole and each specific jurisdiction. They considered not only how the hazards were impacting Wood County, but also how that impact had changed over the past five years. The characteristics of the hazard, along with magnitude, frequency, and consequences was examined. They took into account how the county is experiencing development, and how that increase in residential and commercial properties has changed their landscape. They considered social factors, including the trend for younger generations to move off the farm, and perhaps live outside the immediate area. That leaves a larger population of elderly, estimated now to be in the early years of retirement. In the next plan and the one after that, there will be an ever-increasing very elderly population. Last, they looked at how well the county recovers from a serious incident, why that is, and in what ways improvements could make that recovery improve, in spite of resiliency being high right now.

Several key components of strategic approaches to disaster have affected how the various jurisdictions looked at mitigation actions. The villages all came together and felt that they face the same problems, and the same action items were appropriate for them as a group. Luckey was previously concerned about a beryllium plant was impacting their village; that plant is well into the process of being mitigated and removed by the U.S. Army Corps of Engineers and FEMA. Overall, having watched the serious rail incident in East Palestine, OH in February of 2023, they felt all villages are equally exposed to hazardous materials. Either by rail or by highway, information in the most recent commodity study for Wood County indicates that hazardous materials are moving throughout the county at all times, by rail, highway and pipeline. Pemberville, Grand Rapids and Walbridge no longer felt exceptional vulnerability to flooding, but felt the same threat as other villages. This negated the reasoning to hold them out separately due to flood risk.

Overall, the committee goal was to develop mitigation actions that were highly relevant, feasible and practical. While they were all in favor of each jurisdiction reaching to its highest capacity to prevent or lessen disaster losses, they wanted to allow communities to focus on realistic goals. They wanted to foster collaboration between similar jurisdictions to encourage a collaborative approach to mitigation.

All villages are in one group. They range from 115 residents in Bairdstown to 3,369 residents in North Baltimore. Thirteen of twenty-one villages are less than one thousand residents, and only two (Walbridge and North Baltimore) are over three thousand residents. Therefore, they have a lot in common with one another, not the least of which is the lack of capacity to engage in complex mitigation actions or grant applications. They have few paid staff members, and all are governed by a mayor and council that work as volunteers. None have significant budgets to engage in extensive projects beyond those that are necessary to meet requirements and basic standards.

As growth has continued in the three developing townships, their input, concerns, and solutions were no different than the four cities in Wood County. Their populations all fall between Bowling Green (30,808) and Perrysburg (25,041), as the largest population centers, and Rossford (6,299) and Northwood (5,160). The townships have 5,611 residents in Middleton to 11,160 in Lake Township, to 13,571 in Perrysburg Township. These jurisdictions face the same problems with multiple construction sites in development at one time, increased traffic and commercial activity, residential development to provide a workforce to new businesses, and the demand for public services. They have similar staffing and capacity to engage in mitigation grants and projects. Therefore, they were combined to facilitate cross-jurisdictional approaches to development, mitigation and response.

Two special jurisdictions – Northwest Water & Sewer District (NWWSD) and Bowling Green State University (BGSU) – were held separately because their process for engaging in mitigation actions and applying for grants would not appropriately fall under any county entity. NWWSD is a separate tax district with the specific purpose of providing water and sewer services; they would apply as a separate governmental jurisdiction, and would act independently on projects. BGSU would also act independently, but has ties to state government through the post-secondary educational facility.

As a result, the mitigation strategies in this plan are significantly more specific to each jurisdiction group than those developed in the previous plan. The capability to create, manage and complete mitigation projects was a major consideration in strategy development. The broad-brush strategic approach to mitigation projects was still considered, but tempered with the local capacity to actually carry out the activity.

The result is a set of comprehensive and customized mitigation goals and strategies that address hazard mitigation across Wood County.

3.1 STATUS OF PAST MITIGATION EFFORTS

The 2018 Wood County Pre-Disaster Mitigation Plan identified mitigation goals and activities for all villages, cities and the county. As part of the planning process, the planning team reviewed the 2018 goals and activities and determined the status of each. Table 3-1 includes each goal and activity included in the 2018 plan and identifies its current status. Many of the concepts have been continued in the 2023 plan with a modified methodology or an updated focus. Some have been eliminated because they are unrealistic or not feasible due to project capacity.

Table 3-1: 2018 Wood County Mitigation Goals

Goal 1 – Dam/Levee Failure: Wood County will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible					
1.1 The County will ensure that safety plans are in place for all dams and reservoirs that include accurate inundation areas and evacuation plans.					
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>	
Goal 2 – Drought/Extreme Heat: Wood County will assess the reliability of water supplies during drought and extreme heat.					
2.1 The County will develop plans for a secondary potable water supply in case the primary supply is unavailable and will determine how to communicate this to residents across the county 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"/>	

2.2 The County will develop local public-private partnerships capable of supplying adequate potable water to communities if water treatment systems experience outages or distribution interruptions.	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 County will work with all subdivisions, including cities, villages, and townships to implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 3 - Earthquake: Wood County will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The County will assess the damage potential through a survey of structures in unincorporated areas of the county and will determine the estimated safest local area for sheltering after an incident.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
3.2 The County will work with the municipalities and townships to collect data about at-risk structures in each jurisdiction.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 4 – Flood: Wood County will work to lessen flooding and property damage from flooding in all areas of the county.					
4.1 The County will maintain participation in NFIP to facilitate maximum understanding of and prevention of flood concerns as well as providing an array of insurance alternatives to property owners.	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 County will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.	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 County will require structurally engineered flooding prevention measures for new development and redevelopment including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.4 The County will identify, acquire, and demolish repetitive loss properties to prevent future damages.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.5 The County will support, and assist as able to do so, townships to maintain and clear debris, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment from waterways to facilitate natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.6 The County will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, creeks, and rivers.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.7 The County will work to help residents and businesses understand watershed in Wood County, and to help communities improve their collaboration and cooperation with watershed and conservancy groups through an improved understanding of watershed mechanics and practices.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.8 The County will support jurisdictions as they work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate and will provide assistance to fill gaps in capabilities or resolve inconsistencies where possible.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.9 The County will work with farmers and agri-businesses to decrease damages incurred due to nutrient runoff, manure-contaminated drainage, and farm equipment or structures that have a compounding effect on flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.10 The County will work with the railroads and pipeline owners to decrease damage potential due to surface runoff, hazardous chemicals that become part of flood water, and or structures/components that have a negative effect on adjacent and nearby landowners after heavy rainfall or ice melt.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.11 The County will create additional natural habitat and restore wetlands as a means to contain flood waters and to allow natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

4.12 The County will increase the use of temporary signs to mark flooded streets and areas in an effort to make the county, especially rural areas, safer during floods.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.13 The County will work to repair county owned and maintained roadways and streets that are damaged by the effects of flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 5 – Hazardous Materials Incident: Wood County will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.					
5.1 The County will work to improve signage and traffic indicators on county-owned and maintained roadways as a way to prevent collisions involving vehicles carrying hazardous substances.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.2 The County will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.3 The County will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction so that the appropriate reporting of hazardous and extremely hazardous materials is done in an accurate and timely fashion, and so that reports of spills and releases are done in a prompt and accurate manner.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.4 The County will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner, and so that any spills or releases are promptly and thoroughly cleaned up and disposed of in a proper way.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.5 The County will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.6 The County will work with pipeline companies to ensure pipelines are installed in the safest way possible, that safety data is created and maintained, and that the air and water is monitored to detect any contamination so emergency procedures are activated appropriately.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 6 – Invasive Species: Wood County will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms of various types.					
6.1 The County will work to clear public property of dead or diseased trees that have been affected by invasive species.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
6.2 The County will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris to be scattered and will identify a source of funding for this debris collection.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 7 - Landslide/Mudslide: Wood County will support efforts to lessen damages from landslide and mudslide along the Maumee River.					
7.1 The County will support programs that identify risk and reduce landslide and sedimentation along the Maumee River to lessen the property deterioration caused when riverbank structures have reduced stability.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
7.2 The County will advocate for slope protection actions along the Maumee River to reduce vulnerability to property owners with homes and other structures along the riverbanks.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 8 – Power Outage: Wood County will work to eliminate power outages by working with providers to harden electrical service utilities.					
8.1 The County will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
8.2 The County will work to support development standards which require underground installation of electric lines in sub-divisions and appropriate commercial or industrial neighborhoods.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

8.3 The County will help acquire adequate generators to power critical services during power outages, including shelters, pump stations, and public safety and administration buildings, especially on county-owned or used properties.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 9 – Severe Thunderstorm: Wood County will lessen the damages suffered from windstorms (derecho or straight-line wind) or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
9.1 The County will encourage the use of wind resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.2 The County will support the development of community storm centers and safe areas in jurisdictions and neighborhoods to serve as a community-based hub for information, coordination, and communication during storm response and recovery, and will communicate with these centers to relay important response and recovery information.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.3 The County will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property, and will work to help residents have access to flood insurance information and availability.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.4 The County will promote the continuation, improvement of, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.5 The County will work with rural and unincorporated areas to identify locations where transient populations, including travelers and visitors to the county, may be located and how they might be reached with timely warnings and notifications.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.6 The County will work to encourage and support a system of mutual aid procedures between municipalities and townships, as well as adjacent counties, that allows for rapid and effective deployment of mutual aid when local forces are unable to reach victims or are overwhelmed by the volume of calls.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.7 The County will work with railroads in the area to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 10 – Tornado: Wood County will reduce the damages suffered from tornadoes.					
10.1 The County will support the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
10.2 The County will support the development of public safe areas and storms shelters for rural residents of mobile homes, homes without basements, transient person in the county, and others who need shelter during tornadoes or other severe weather events.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
10.3 The County will ensure that agreements exist for sheltering rural residents when homes are unlivable due to severe storms and tornadoes and evacuations.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>

Table 3-2: Wood County 2018 City Mitigation Strategies

Goal 1 – Dam/Levee Failure: The City will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible					
1.1 The City will ensure that safety plans are in place for all dams and reservoirs that include accurate inundation areas and evacuation plans.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 2 – Drought/Extreme Heat: The City will assess the reliability of water supplies during drought and extreme heat.					

2.1 The City will review plans for a secondary potable water supply in case the primary supply is unavailable and will determine how to communicate this to residents in the village at the needed time.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 3 – Earthquake: The City will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The City will assess the damage potential through a survey of structures and will determine the estimated safest local area for sheltering after an incident.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 4 – Flood: The City will work to lessen flooding and property damage from flooding in the village.					
4.1 The City will join/resolve sanctions/maintain participation in NFIP to facilitate maximum understanding of and prevention of flood concerns as well as providing an array of insurance alternatives to property owners.	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 City will adopt and enforce regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.	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 require structurally engineered flooding prevention measures for new development including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.4 The City will identify, acquire, and demolish repetitive loss properties to prevent future damages.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.5 The City will maintain and clear debris, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment from waterways to facilitate natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.6 The City will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, creeks, and rivers in the jurisdiction.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.7 The City will work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.8 The City will work with agriculture and transportation businesses to decrease damages incurred in municipalities related to industrial runoff, hazardous or contaminated drainage, and elevated structures that have a compounding effect on flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.9 The City will use creation of natural habitat and restoration of wetlands as a means to contain flood waters and to allow natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.10 The City will increase the use of temporary signs to mark flooded streets and areas in an effort to make the community safer when flooded.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.11 The City will work to repair roadways and streets that are damaged by the effects of flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 5 – Hazardous Materials Incident: The City will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.					
5.1 The City will work to improve signage and traffic indicators as a way to prevent collisions involving vehicles carrying hazardous substances.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.2 The City will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.3 The City will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.4 The City will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 6 – Invasive Species: The City will lessen the cost of plant debris caused by invasive species that weaken and destroy trees in the village that cause large amounts of debris to require removal after storms of various types.				
6.1 The City will work to clear public property of dead or diseased trees that have been affected by invasive species.				
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6.2 The City will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris to be scattered and will identify a source of funding for this debris collection.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 7 – Landslide/Mudslide: The City will work to lessen damages from landslide and mudslide along the Maumee River.				
7.1 The City will support programs that reduce landslide and sedimentation along the Maumee River to reduce the property deterioration caused when riverbank structures have reduced stability.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
7.2 The City will advocate for slope protection actions along the Maumee River to reduce vulnerability to property owners with homes and other structures along the riverbanks.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 8 – Power Outage: The City will work to eliminate power outages by hardening electrical service utilities.				
8.1 The City will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
8.2 The City will work to support development that requires underground installation of electric lines in sub-divisions and appropriate industrial neighborhoods.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
8.3 The City will acquire adequate generators to power critical services during power outages, including shelters, pump stations, and public safety and administration buildings.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 9 – Severe Thunderstorm: The City will lessen the damages suffered from windstorms (derecho or straight-line wind), or severe thunderstorms, including heavy rain, wind, hail, and lightning.				
9.1 The City will support the encouraged use of wind resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.2 The City will support the development of community storm centers and safe areas to serve as a local hub for information, coordination, and communication during storm response and recovery.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.3 The City will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.4 The City will promote the continuation, improvement of, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.5 The City will work to establish a system of mutual aid procedures that allows for rapid and effective deployment of mutual aid when local forces are unable to reach victims or are overwhelmed by the volume of calls.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.6 The City will work to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.				

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 10 – Tornado: The City will reduce the damages suffered from tornadoes.				
10.1 The City will support the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
10.2 The City will support the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, transient person in the county, and others who need shelter during tornadoes or other severe weather events.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
10.3 The City will ensure that agreements exist for sheltering the village residents when homes are unlivable due to severe storms and tornadoes and evacuations.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
10.4 The City will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
10.5 The City will support the implementation of communication system that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 11 – Water Quality: The City will work to improve the safety of the water supply whether it is sourced from private wells or water treatment systems.				
11.1 The City will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.2 The City will support improvements to water treatment systems to increase the ability to detect and treat harmful contaminants.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.3 The City will support additional research to determine the complete cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.4 The City will support the creation of a multi-jurisdictional collaborative water authority to manage water treatment and delivery systems as they apply to Wood County and to address contamination of the source water that may endanger local water.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.5 The City will support development of inter-connected and redundant water supplies that are readily available to quickly replace a contaminated water supply through standard distribution systems.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 12 – Winter Storm: The City will lessen damages suffered from severe winter storms and blizzards.				
12.1 The City will work to plow and clear village roadways to facilitate emergency traffic, necessary travel, and business access.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

Table 3-3: Wood County 2018 Developing Township Mitigation Strategies

Goal 1 – Dam/Levee Failure: The Township will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible				
1.1 The Township will ensure that safety plans are in place for all dams and reservoirs that include accurate inundation areas and evacuation plans.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
Goal 2 – Drought/Extreme Heat: The Township will assess the reliability of water supplies during drought and extreme heat.				
2.1 The Township will review plans for a secondary potable water supply in case the primary supply is unavailable and will determine how to communicate this to residents in the village at the needed time.				

Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 3 – Earthquake: The Township will assess damage potential from earthquake and establish a safety plan for residents.				
3.1 The Township will assess the damage potential through a survey of structures and will determine the estimated safest local area for sheltering after an incident.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 4 – Flood: The Township will work to lessen flooding and property damage from flooding in the village.				
4.1 The Township will adopt and enforce regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.				
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 Township will require structurally engineered flooding prevention measures for new development including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.				
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 Township will identify, acquire, and demolish repetitive loss properties to prevent future damages.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.4 The Township will maintain and clear debris, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment from waterways to facilitate natural drainage.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.5 The Township will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, creeks, and rivers in the jurisdiction.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.6 The Township will work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.7 The Township will use creation of natural habitat and restoration of wetlands as a means to contain flood waters and to allow natural drainage.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.8 The Township will increase the use of temporary signs to mark flooded streets and areas in an effort to make the community safer when flooded.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.9 The Township will work to repair roadways and streets that are damaged by the effects of flash flooding.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 5 – Hazardous Materials Incident: The Township will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.				
5.1 The Township will work to improve signage and traffic indicators as a way to prevent collisions involving vehicles carrying hazardous substances.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.2 The Township will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.3 The Township will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.4 The Township will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 6 – Invasive Species: The Township will lessen the cost of plant debris caused by invasive species that weaken and destroy trees in the village that cause large amounts of debris to require removal after storms of various types.				

6.1 The Township will work to clear public property of dead or diseased trees that have been affected by invasive species.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
6.2 The Township will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris to be scattered and will identify a source of funding for this debris collection.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 7 – Landslide/Mudslide Goal: The Township will work to lessen damages from landslide and mudslide along the Maumee River.					
7.1 The Township will support programs that reduce landslide and sedimentation along the Maumee River to reduce the property deterioration caused when riverbank structures have reduced stability.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
7.2 The Township will advocate for slope protection actions along the Maumee River to reduce vulnerability to property owners with homes and other structures along the riverbanks.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 8 – Power Outage: The Township will work to eliminate power outages by hardening electrical service utilities.					
8.1 The Township will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
8.2 The Township will work to support development that requires underground installation of electric lines in sub-divisions and appropriate industrial neighborhoods.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
8.3 The Township will acquire adequate generators to power critical services during power outages, including shelters, pump stations, and public safety and administration buildings.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 9 – Severe Thunderstorm: The Township will lessen the damages suffered from windstorms (derecho or straight-line wind), or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
9.1 The Township will support the encouraged use of wind resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.2 The Township will support the development of community storm centers and safe areas to serve as a local hub for information, coordination, and communication during storm response and recovery.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.3 The Township will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.4 The Township will promote the continuation, improvement of, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.5 The Township will work to establish a system of mutual aid procedures that allows for rapid and effective deployment of mutual aid when local forces are unable to reach victims or are overwhelmed by the volume of calls.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.6 The Township will work to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 10 – Tornado: The Township will reduce the damages suffered from tornadoes.					
10.1 The Township will support the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
10.2 The Township will support the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, transient persons in the county, and others who need shelter during tornadoes or other severe weather events.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
10.3 The Township will ensure that agreements exist for sheltering the village residents when homes are unlivable due to severe storms and tornadoes and evacuations.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
10.4 The Township will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
10.5 The Township will support the implementation of communication system that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting.					
	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 11 – Water Quality: The Township will work to improve the safety of the water supply whether it is sourced from private wells or water treatment systems.					
11.1 The Township will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.2 The Township will support improvements to water treatment systems to increase the ability to detect and treat harmful contaminants.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.3 The Township will support additional research to determine the complete cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.4 The Township will support the creation of a multi-jurisdictional collaborative water authority to manage water treatment and delivery systems as they apply to Wood County and to address contamination of the source water that may endanger local water.					
	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.5 The Township will support development of inter-connected and redundant water supplies that are readily available to quickly replace a contaminated water supply through standard distribution systems.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 12 – Winter Storm: The Township will lessen damages suffered from severe winter storms and blizzards.					
12.1 The Township will work to plow and clear village roadways to facilitate emergency traffic, necessary travel, and business access.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

Table 3-4: Wood County 2018 Special Hazardous Materials Risk Village Mitigation Strategies

Goal 1 – Dam/Levee Failure: The Village will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible.					
1.1 The Village will ensure that safety plans are in place for both reservoirs that include accurate inundation areas and evacuation plans.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 2 – Drought/Extreme Heat: The Village will assess the reliability of water supplies during drought and extreme heat.					
2.1 The Village will review plans for a secondary potable water supply in case the primary supply is unavailable and will determine how to communicate this to residents in the village at the needed time.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 3 – Earthquake: The Village will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The Village will assess the damage potential through a survey of structures and will determine the estimated safest local area for sheltering after an incident.					
	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 4 – Flood: The Village will work to lessen flooding and property damage from flooding in the village.					
4.1 The Village will establish participation and resolve sanction (Luckey) or maintain participation (North Baltimore) in NFIP to facilitate maximum understanding of and prevention of flood concerns as well as providing an array of insurance alternatives to property owners.					

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 adopt and enforce regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.				
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 require structurally engineered flooding prevention measures for new development including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.4 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.5 The Village will maintain and clear debris, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment from waterways to facilitate natural drainage.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.6 The Village will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, creeks, and rivers in the jurisdiction.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.7 The Village will work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.8 The Village will work with agriculture and transportation businesses to decrease damages incurred in municipalities related to industrial runoff, hazardous or contaminated drainage, and elevated structures that have a compounding effect on flash flooding.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.9 The Village will use creation of natural habitat and restoration of wetlands as a means to contain flood waters and to allow natural drainage.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.10 The Village will increase the use of temporary signs to mark flooded streets and areas in an effort to make the community safer when flooded.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.11 The Village will work to repair roadways and streets that are damaged by the effects of flash flooding.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 5 – Hazardous Materials Incident: The Village will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.				
5.1 The Village will work to improve signage and traffic indicators as a way to prevent collisions involving vehicles carrying hazardous substances.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.2 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.3 The Village will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
5.4 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.				
Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 6 – Invasive Species: The Village will lessen the cost of plant debris caused by invasive species that weaken and destroy trees in the village that cause large amounts of debris to require removal after storms of various types.				
6.1 The Village will work to clear public property of dead or diseased trees that have been affected by invasive species.				
Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

6.2 The Village will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris to be scattered and will identify a source of funding for this debris collection.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 7 – Power Outage: The Village will work to eliminate power outages by hardening electrical service utilities.					
7.1 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
7.2 The Village will work to support development that requires underground installation of electric lines in sub-divisions and appropriate industrial neighborhoods.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
7.3 The Village will acquire adequate generators to power critical services during power outages, including shelters, pump stations, and public safety and administration buildings.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 8 – Severe Thunderstorm: The Village will lessen the damages suffered from windstorms (derecho or straight-line wind) or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
8.1 The Village will support the encouraged use of wind resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
8.2 The Village will support the development of community storm centers and safe areas to serve as a local hub for information, coordination, and communication during storm response and recovery.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
8.3 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
8.4 The Village will promote the continuation, improvement of, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
8.5 The Village will work to establish a system of mutual aid procedures that allows for rapid and effective deployment of mutual aid when local forces are unable to reach victims or are overwhelmed by the volume of calls.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
8.6 The Village will work to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 9 – Tornado: The Village will reduce the damages suffered from tornadoes.					
9.1 The Village will support the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.2 The Village will support the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, transient person in the county, and others who need shelter during tornadoes or other severe weather events.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.3 The Village will ensure that agreements exist for sheltering the village residents when homes are unlivable due to severe storms and tornadoes and evacuations.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
9.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
9.5 The Village will support the implementation of communication system that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

Goal 10 – Water Quality: The Village will work to improve the safety of the water supply whether it is sourced from private wells or water treatment systems.					
10.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
10.2 The Village will support improvements to water treatment systems to increase the ability to detect and treat harmful contaminants.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
10.3 The Village will support additional research to determine the complete cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
Completed <input checked="" type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>
10.4 The Village will support the creation of a multi-jurisdictional collaborative water authority to manage water treatment and delivery systems as they apply to Wood County and to address contamination of the source water that may endanger local water.					
Completed <input checked="" type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>
10.5 The Village will support development of inter-connected and redundant water supplies that are readily available to quickly replace a contaminated water supply through standard distribution systems.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
Goal 11 – Winter Storm: The Village will lessen damages suffered from severe winter storms and blizzards.					
11.1 The Village will work to plow and clear village roadways to facilitate emergency traffic, necessary travel, and business access.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>

Table 3-5: Wood County 2018 Special Flood Risk Village Mitigation Strategies

Goal 1 – Dam/Levee Failure: The Village will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible.					
1.1 The Village will ensure that safety plans are in place for all dams and reservoirs that include accurate inundation areas and evacuation plans.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
Goal 2 – Drought/Extreme Heat: The Village will assess the reliability of water supplies during drought and extreme heat.					
2.1 The Village will review plans for a secondary potable water supply in case the primary supply is unavailable and will determine how to communicate this to residents in the village at the needed time.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
Goal 3 – Earthquake: The Village will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The Village will assess the damage potential through a survey of structures and will determine the estimated safest local area for sheltering after an incident.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
Goal 4 – Flood: The Village will work to lessen flooding and property damage from flooding in the village.					
4.1 The Village will maintain participation in NFIP to facilitate maximum understanding of and prevention of flood concerns as well as providing an array of insurance alternatives to property owners.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
4.2 The Village will adopt and enforce regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
4.3 The Village will require structurally engineered flooding prevention measures for new development including installation of retention/detention ponds, floodwalls, channelization, and elevation of roads, bridges, culverts and structures.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
4.4 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>

4.5 The Village will maintain and clear debris, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, and excess sediment from waterways to facilitate natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.6 The Village will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, creeks, and rivers in the jurisdiction.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.7 The Village will work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.8 The Village will work with agriculture and transportation businesses to decrease damages incurred in municipalities related to industrial runoff, hazardous or contaminated drainage, and elevated structures that have a compounding effect on flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.9 The Village will use creation of natural habitat and restoration of wetlands as a means to contain flood waters and to allow natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.10 The Village will increase the use of temporary signs to mark flooded streets and areas in an effort to make the community safer when flooded.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.11 The Village will work to repair roadways and streets that are damaged by the effects of flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 5 – Hazardous Materials Incident: The Village will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.					
5.1 The Village will work to improve signage and traffic indicators as a way to prevent collisions involving vehicles carrying hazardous substances.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.2 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.3 The Village will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
5.4 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 6 – Invasive Species: The Village will lessen the cost of plant debris caused by invasive species that weaken and destroy trees in the village that cause large amounts of debris to require removal after storms of various types.					
6.1 The Village will work to clear public property of dead or diseased trees that have been affected by invasive species.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
6.2 The Village will work to identify reasonably priced and adequate debris disposal options after storms cause an exceptional amount of debris to be scattered and will identify a source of funding for this debris collection.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 7 – Landslide/Mudslide: The Village will work to lessen damages from landslide and mudslide along the Maumee River.					
7.1 The Village will support programs that reduce landslide and sedimentation along the Maumee River to reduce the property deterioration caused when riverbank structures have reduced stability.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
7.2 The Village will advocate for slope protection actions along the Maumee River to reduce vulnerability to property owners with homes and other structures along the riverbanks.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>

Goal 8 – Power Outage: The Village will work to eliminate power outages by hardening electrical service utilities.					
8.1 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
8.2 The Village will work to support development that requires underground installation of electric lines in sub-divisions and appropriate industrial neighborhoods.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
8.3 The Village will acquire adequate generators to power critical services during power outages, including shelters, pump stations, and public safety and administration buildings.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
Goal 9 – Severe Thunderstorm: The Village will lessen the damages suffered from windstorms (derecho or straight-line wind), or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
9.1 The Village will support the encouraged use of wind resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
9.2 The Village will support the development of community storm centers and safe areas to serve as a local hub for information, coordination, and communication during storm response and recovery.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
9.3 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
9.4 The Village will promote the continuation, improvement of, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
9.5 The Village will work to establish a system of mutual aid procedures that allows for rapid and effective deployment of mutual aid when local forces are unable to reach victims or are overwhelmed by the volume of calls.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
9.6 The Village will work to lessen the number and duration of railroad crossing blockages to enable first responders and other time-critical resources to respond quickly and to maintain access to all areas of their coverage areas.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
Goal 10 – Tornado Goal: The Village will reduce the damages suffered from tornadoes.					
10.1 The Village will support the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
10.2 The Village will support the development of public safe areas and storms shelters for residents of mobile homes, homes without basements, transient person in the county, and others who need shelter during tornadoes or other severe weather events.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
10.3 The Village will ensure that agreements exist for sheltering the village residents when homes are unlivable due to severe storms and tornadoes and evacuations.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>
10.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency help.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
10.5 The Village will support the implementation of communication system that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>
Goal 11 – Water Quality: The Village will work to improve the safety of the water supply whether it is sourced from private wells or water treatment systems.					

11.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.2 The Village will support improvements to water treatment systems to increase the ability to detect and treat harmful contaminants.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.3 The Village will support additional research to determine the complete cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.4 The Village will support the creation of a multi-jurisdictional collaborative water authority to manage water treatment and delivery systems as they apply to Wood County and to address contamination of the source water that may endanger local water.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
11.5 The Village will support development of inter-connected and redundant water supplies that are readily available to quickly replace a contaminated water supply through standard distribution systems.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 12 – Winter Storm: The Village will lessen damages suffered from severe winter storms and blizzards.					
12.1 The Village will work to plow and clear village roadways to facilitate emergency traffic, necessary travel, and business access.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

Table 3-6: Wood County 2018 Rural Village Mitigation Strategies

Goal 1 – Dam Failure: The Village will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible.					
1.1 The Village will ensure that safety plans are in place for all dams and reservoirs that include accurate inundation areas and evacuation plans.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
Goal 2 – Drought/Extreme Heat: The Village will assess the reliability of water supplies during drought and extreme heat.					
2.1 The Village will review plans for a secondary potable water supply in case the primary supply is unavailable and will determine how to communicate this to residents in the village at the needed time.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 3 – Earthquake: The Village will assess damage potential from earthquake and establish a safety plan for residents.					
3.1 The Village will assess the damage potential through a survey of structures and will determine the estimated safest local area for sheltering after an incident.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 4 – Flood: The Village will work to lessen flooding and property damage from flooding in the village.					
4.1 The Village will establish (E)/maintain(M)/resolve (R) participation in NFIP to facilitate maximum understanding of and prevention of flood concerns as well as providing an array of insurance alternatives to property owners.	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 adopt and/or enforce regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and other local and state regulations pertaining to new or renovated construction and community development projects.	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 require structurally engineered flooding prevention measures for new development including installation of retention/detention ponds, channelization, and elevation of roads, bridges, and culverts. *	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.4 The Village will identify, acquire, and demolish repetitive loss properties to prevent future damages.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input checked="" type="checkbox"/>	Deferred <input type="checkbox"/>
4.5 The Village will maintain and clear debris, including lawn and crop fodder, dead/diseased trees, animal-borne obstructions, and excess sediment from waterways to facilitate natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

4.6 The Village will collaborate with watershed organizations, conservancy groups, and conservation organizations to maintain, clean, and improve ditches, streams, creeks and rivers in the jurisdiction.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
4.7 The Village will work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
4.8 The Village will work with agriculture and transportation businesses to decrease damages incurred in municipalities related to industrial runoff, hazardous or contaminated drainage, and elevated structures that have a compounding effect on flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
4.9 The Village will use creation of natural habitat and restoration of wetlands as a means to contain flood waters and to allow natural drainage.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.10 The Village will increase the use of temporary signs to mark flooded streets and areas in an effort to make the community safer when flooded.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
4.11 The village will work to repair roadways and streets that are damaged by the effects of flash flooding.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 5 – Hazardous Materials Incident: The Village will work to lessen both the number of spills, leaks and releases from hazardous materials incidents, as well as lessen the damages from such spills, leaks, and releases.					
5.1 The Village will work to improve signage and traffic indicators as a way to prevent collisions involving vehicles carrying hazardous substances.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.2 The Village will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
5.3 The Village will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the county.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
5.4 The Village will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
Goal 6 – Invasive Species: The Village will lessen the cost of plant debris caused by invasive species that infest and destroy trees in the village and create large amounts of tree debris to be removed after storms fell the weakened trees.					
6.1 The Village will work to clear public property of dead or diseased trees that have been affected by Emerald Ash Borer or other invasive species.	Completed <input checked="" type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
6.2 The Village will work to identify reasonably priced and adequate debris disposal sites after storms that cause diseased trees to fall in huge numbers, and to identify a source to pay for the debris disposal.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
Goal 7 – Power Outage: The Village will work to harden electrical service by eliminating power outages.					
7.1 The Village will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input checked="" type="checkbox"/>
7.2 The Village will work to support development that requires underground installation of electric lines in sub-divisions and appropriate industrial neighborhoods.	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>
7.3 The Village will acquire adequate generators to power critical services during power outages, including shelters, pump stations, and public safety and administration buildings. *	Completed <input type="checkbox"/>	Cancelled <input type="checkbox"/>	On Schedule <input checked="" type="checkbox"/>	Delayed <input type="checkbox"/>	Deferred <input type="checkbox"/>

Goal 8 – Severe Thunderstorm: The Village will lessen the damages suffered from windstorms (derecho or straight-line wind), or severe thunderstorms, including heavy rain, wind, hail, and lightning.					
8.1 The Village will support the encouraged use of wind resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input checked="" type="checkbox"/>	
8.2 The Village will support the development of community storm centers and safe areas to serve as a local hub for information, coordination, and communication during storm response and recovery.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
8.3 The Village will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards for the property.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input checked="" type="checkbox"/>	
8.4 The Village will promote the continuation and improvement of redundant warning and notification systems that could include outdoor sirens, wireless notification options, social media warnings, reverse 9-1-1- and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
8.5 The Village will work to establish a system of mutual aid procedures that allow for rapid and effective deployment of mutual aid when local forces are unable to reach victims or are overwhelmed by the volume of calls.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
Goal 9 – Tornado: The village will lessen the damages suffered from tornadoes.					
9.1 The Village will support the development of safe rooms for single and multi-family residential structures including support of safe room grant opportunities.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input checked="" type="checkbox"/>		Deferred <input type="checkbox"/>	
9.2 The Village will support the development of public safe areas and storm shelters for residents of mobile homes, homes without basements, transient persons in the county, and others who need shelter during tornadoes or other severe weather events.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input checked="" type="checkbox"/>		Deferred <input type="checkbox"/>	
9.3 The Village will ensure that agreements exist for sheltering the village residents when homes are unlivable due to severe storms and tornadoes and evacuations.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input checked="" type="checkbox"/>		Deferred <input type="checkbox"/>	
9.4 The Village will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, 9-1-1 and emergency help.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
9.5 The Village will support the implementation of communication systems that enable communication between responders across the county in a multi-jurisdictional and multi-discipline setting.					
Completed <input checked="" type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
9.6 The Village will work to establish rapid means to compensate for railroad crossing blockages, either through roadway improvements like overpasses, or through mutual aid agreements.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
Goal 10 – Water Quality: The Village will work to improve the safety of the water supply whether it is sourced from private wells or water treatment systems.					
10.1 The Village will establish and maintain an emergency water supply plan that includes alternate sources of potable water and conservation procedures.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
10.2 The Village will support improvements to water treatment systems to increase the ability to detect and treat harmful contaminants.					
Completed <input type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input checked="" type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
10.3 The Village will support additional research to determine the complete cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions. *					
Completed <input checked="" type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	
10.4 The Village will support the creation of a multi-jurisdictional collaborative water authority to manage water standards as they apply to Wood County and to address spills and leaks into the water supply that may endanger local water.					
Completed <input checked="" type="checkbox"/>		Cancelled <input type="checkbox"/>		On Schedule <input type="checkbox"/>	
		Delayed <input type="checkbox"/>		Deferred <input type="checkbox"/>	

10.5 The Village will support development of inter-connected and redundant water supplies that are readily available to quickly replace a contaminated water supply through standard distribution systems.
Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/>
Goal 11 – Winter Storm: The Village will lessen damages suffered from severe winter storms and blizzards.
11.1 The Village will work to plow and maintain passage on village roadways to facilitate emergency traffic, necessary travel, and business travel.
Completed <input type="checkbox"/> Cancelled <input type="checkbox"/> On Schedule <input checked="" type="checkbox"/> Delayed <input type="checkbox"/> Deferred <input type="checkbox"/>

3.2 RISK PRIORITIES

The Hazard Identification and Risk Assessment (02 HIRA) explains in detail the identification of hazards and evaluation of risks in Wood County. That section considers numerous potential natural and non-natural hazards, cites the historical frequency and severity of past incidents, and considers the damages that would occur should that type incident strike a jurisdiction within Wood County. Part of these storm discussions were discussions about the effects of climate change, especially how increased severity of storms would affect the county. Not only did they consider the primary climate change factor, such as heavier rain, they also considered consequences such as dam failure due to the stress placed on dams when extremely heavy precipitation falls for a prolonged period of time, or for multiple years. Participants discussed projections found in various environmental prediction tools, and assessed whether the predictions seemed to be consistent or inconsistent with actual data. Social vulnerability and community resilience was discussed as well. They addressed issues like homelessness, lack of transportation, poverty and medical disability within the context of various hazards. The community capability to respond, at all levels, was the final component of discussion, raising questions that included first responder and volunteer availability, shelter services, and post-incident behavioral health needs.

After completing this very comprehensive assessment, the planning team was asked to rank proposed mitigation actions from most important to least important. This rank was based on potential damage amounts, placing a higher priority on incidents that required the most costly and extensive repairs. Participants considered which strategies would benefit the greatest number of people and considered which would be funded by general budgets and those that would require special funding. In the end, participants felt that the mitigation actions, or strategies, that would lessen or prevent damages caused by a jurisdiction’s highest concerning hazard should be ranked as most important. Each community and the county as a whole had already spent significant time determining which hazards were most damaging and most costly and which were mostly an inconvenience. They used a variety of variables to rank the hazards, including possibility, probability, frequency, magnitude, warning time, response duration, and ultimate cost in terms of dollars and lives and felt these results should provide the basis for ranking strategies.

The planning team decided that strategies would be ranked to match hazard ranking. For example, if a community ranked “Flood” as their most concerning hazard, then all the flood strategies should rank highest. Within the set of strategies for flood, participants felt that, in general, actions that were least expensive in terms of dollars would be the most feasible to complete; therefore, the least expensive should rank highest within hazard groups. If cost was not a significant factor, they felt that feasibility in completing the strategy and ease of

completion should contribute to high-ranking designations. In general, they felt the most concerning hazards outranked others; the least expensive actions outranked the more expensive. The more feasible the strategy to achieve, the higher it should rank.

Communities across the county expressed solid desire to complete the strategies in the plan to the best of their ability. In many cases, collaboration between multiple jurisdictions would give the strategies an advantage and garner more attention. For example, as the rural townships work with the small villages to improve first responder communications, they realized a joint approach would be most successful and provide the most options. They viewed creating a culture of collaboration as a non-monetary benefit of strategy implementation.

The cost of implementation was a significant concern for the small villages as they prioritized strategies. With nineteen villages of under two thousand residents, operational budgets are limited. None of the villages has a year-end surplus and many have had to depend upon the county to support disaster clean-up efforts in past incidents. Although the mitigation plan would establish eligibility for grant funding, participants were well aware that grants are usually awarded based upon cost-benefit analysis to communities where a large number of citizens are positively impacted. With such low populations, it would be nearly impossible to be awarded grant funds in this competitive arena. Even the cities with much larger population felt they are not large enough to be highly competitive in a highly attractive competition for funding.

There were multiple discussions about the jurisdictional capacity to apply for, administer, and complete complex mitigation projects. Consideration was given to who exactly would apply for a grant and complete a specific project should a funding opportunity become available. The small rural villages all reported that they would be challenged to complete the process of applying for a mitigation grant, managing the project and administering the grant because they do not have adequate administrative personnel to do that. Most of the small villages have no paid staff, and the elected officials are volunteers who serve in addition to working a full-time job. Should an opportunity become available, they would have to contract with someone to complete applications, manage projects, and administer the grant on their behalf.

Because most of the county is now served by the Northwest Water & Sewer District for either water or wastewater collection, treatment and/or distribution, the district was included as a separate jurisdiction. Should they determine a grant application were appropriate, they would apply as a special district as it would be inappropriate for them to apply as one of the municipalities or the county.

Bowling Green State University was also established as a separate jurisdiction. With a significant residential student population that lives within the City of Bowling Green, the university has a remarkable strategic plan to improve and enhance their facilities and services, and has comparable risk and vulnerability to disaster damages. They also would not apply for a grant under the guidance of the city, but instead would do this independently. Therefore, BGSU has their own mitigation actions.

Participants were concerned that the ranking activity would mean strategies were required to be implemented in the order in which prioritized and were concerned that it was impossible to

foresee circumstances, incidents, and financial resource availability to the extent that a rigid ranking effort might become an obstacle in strategy implementation over the years. They were assured by the EMA staff and the Contractor that this was not the case; strategies could be implemented as they were able to do so; the ranking would allow them to place more energy in developing those that ranked highest but would certainly not preclude the implementation of the lower ranked strategies in an out-of-order progression.

Using the methodology chosen by the participants, the strategies were ranked as the Contractor wrote that section of the plan, paying special attention to meeting notes for guidance. Participants were asked to pay special attention to the ranking during the review period, and to provide feedback if they felt the order was not indicative of local priorities. As the plan sections were developed, they were shared with planning participants to ensure they had more than adequate time to review the prioritization.

3.3 MITIGATION GOALS AND STRATEGIES

Planning Team members, jurisdiction representatives, and stakeholders worked collaboratively to develop appropriate mitigation goals and strategies for the county, incorporated jurisdictions [and two special districts](#). Mitigation strategies were drafted based on the input provided by these stakeholders and presented to the Planning Team and community for review and comment.

This section identifies the mitigation goals and strategies for the county, each incorporated jurisdiction, [and both special districts](#) along with the priority level, action type, lead agency, timeline, and potential funding source assigned to each action. Strategies for incorporated jurisdictions vary from the countywide in priority of the problem and the potential solution.

Strategy Descriptors

Each strategy developed by the jurisdictions is assigned a priority, action type, lead agency, timeline, and potential funding source. These elements are described below. While the specific information in this chart may change prior to the implementation of a strategy, the exercise of assigning timelines required stakeholders to evaluate current resources to determine how to best reduce the effects of disasters. Public information campaigns, enhancements to capabilities, social vulnerability improvements, and the establishment of emergency protective measures were the highest priority and generally not significantly expensive. Upgrading communication and notification/warning systems was 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 goals because it involved a two-phase action plan. Last on the completion list were structural project due to design time requirements, budget needs, and dependence upon outside funding sources through applications. The priorities of life safety, incident containment, and property conservation combined with budget and procurement needs were major factors in determining the priority of goals and strategies. [An underlying consideration was the capacity of the jurisdictions to carry out mitigation actions, and determination of the most concise and quick method of accomplishing goals. The villages and townships are small and lack the administrative depth to engage in complex, lengthy, highly engineered projects. Setting a goal](#)

for a project that involves these considerations was paired with discussion about how they would provide for the administrative needs of the project.

Social vulnerability and capability enhancement were critical areas for all of Wood County. With ample resources in some areas, and extreme shortages in others, any activity that makes the self-sufficiency of the area more likely was favored across the board. Different community dynamics and characteristics made social vulnerability look different in the various communities, but north-to-south, all participants wanted to ensure that all people in Wood County have the opportunity to survive a disaster and recover. For different reasons, specific groups in specific communities would need extra help doing that. These actions were a consistent high priority.

As jurisdictions created strategies to reduce the damage and loss from disasters, the following guidelines were used in describing types of goals and strategies, and in determining what strategies each jurisdiction should develop. Each jurisdiction discussed who would be responsible for championing mitigation efforts, how the work to do that would be funded, how specific actions or projects would be funded, in what order the jurisdiction would address potential actions.

Jurisdictions decided that the mayors of the municipalities should be the champion of mitigation activities, and that the EMA Director should be the county’s champion. This would most consistently allow for ongoing discussion and evaluation of progress, problems, or modifications. It would allow for incorporation of mitigation into other community planning efforts as well because the EMA Director and the mayors are a part of those processes county wide. Each community’s prioritized of hazards would guide the order in which strategies were undertaken. This would allow for work to be beneficial and cost-effective. By establishing and maintaining this focus on strategy completion, the availability of grant funding and special programs to pay for actions could be monitored and communicated quite easily between the EMA Director and the mayors.

Table 3-7: Strategy Descriptors

Element	Definition
<i>Priority</i>	Each jurisdiction has ranked all hazards according to their jurisdiction’s priorities; that result is expressed in a table in the HIRA under each municipal vulnerability statement. In this section of the mitigation plan, all goals and strategies are expressed alphabetically according to hazard for ease of comparison and review and use of the plan. The jurisdictions will address strategies in order of priorities as established in their individual jurisdiction. If the #1 hazard in a community is flood, then the flood strategies will be addressed as the highest priority.

<i>Action Type</i>	<p>The kind of activity described in the strategies Includes these types of actions:</p> <ul style="list-style-type: none"> • Natural Resource Protection – Reduce the impacts of natural hazard by preserving or restoring natural areas and their mitigation functions • Prevention – Avoid hazard problems or stop impact from worsening • Property Protection – Protect structures by modifying or strengthening building to withstand impact • Public Information – Advise the public about hazards, hazardous areas, and mitigation techniques to protect people and property • Structurally Engineered Project – Lessen the impact of a hazard by modifying the environment or progression of the hazard event through designed and engineered projects • Social Resiliency – Provides resources and services for underserved and disadvantaged populations in the context of applicable limitations and shortages, and enhances the opportunity for all people to recover from the negative impact of disasters • Capability Enhancement – Aids in the rapid and effective delivery of emergency services by hardening those resources so they can adequately and in a timely fashion meet the emergency needs of the community, lessening the long-term consequences of disasters
<i>Lead</i>	<p>The lead individual(s) or agency charged with championing the strategy and ensuring that jurisdiction officials look for opportunities to complete the strategy over the five-year planning cycle. This official/agency may not have the authority or power to make a strategy into a project, nor would they 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 a feasible project, this agency is not the only entity that would be involved in its execution, nor is it the only entity involved in keeping the strategy on the jurisdiction’s radar. For accountability purposes, the strategy is assigned to a single entity. When the strategy becomes a project, the jurisdiction would identify a project manager who may or may not represent the lead agency assigned in this plan.</p>
<i>Timeline</i>	<p>The timeframe in which a mitigation strategy could realistically be implemented. The actual time frame may vary from what is described in this plan, depending on funding, grant opportunities, or changes in priorities as other critical activities are adjusted to meet evolving community needs. At the time of plan development, these timelines fit logically into each jurisdiction/s resources and support programs.</p>
<i>Funding</i>	<p>The potential funding source(s) for the strategy. Potential funding sources include:</p> <ul style="list-style-type: none"> • FMA – Flood Mitigation Assistance Grant • HMGP – Hazard Mitigation Grant Program • BRIC – Building Resilient Infrastructure in Communities • USACE – United States Army Corps of Engineers grant programs • USGS – United States Geological Services grant programs • H2OH – H2Ohio Agricultural Program • COG – Clean Ohio Grant • ICC – Increased Cost of Compliance (including rate increases or premiums) • LOC – Local Funds • ST – State Funds • Other (including private funds and non-governmental agency funding)

3.3.1 Wood County

A large portion of Wood County is unincorporated. Most of this area is not densely populated and includes the county's agricultural areas. There are housing sub-divisions, unincorporated neighborhoods, and postal designations across this area. Many of the roads are maintained by the Wood County Engineer and the ditches are, in some cases, part of the county's ditch maintenance program. However, some roads and waterways are maintained by a different government or private entity. Law enforcement is provided by the Wood County Sheriff. These residents work with the Wood County EMA and mitigation efforts are coordinated through the Wood County Commissioners.

The following mitigation goals and strategies include those mitigation efforts that are intended to be undertaken by county government, not cities and villages. Therefore, the following section covers mitigation actions for which Wood County as a jurisdiction of government would be responsible, and that other units of government would not be held responsible.

All of these mitigation goals and strategies will be assigned to the Wood County Emergency Management Agency Director. The EMA Director may work with and through other county officials to accomplish the work when another department would logically perform the job duties, but the central clearing house for the efforts will be the EMA. The EMA will track the status of each effort and will be responsible for annual updating and status assessment of all goals and strategies.

Work on these actions will begin with the adoption of the plan, estimated to be approximately January 1, 2024 and will continue through the validity period of the plan, estimated to be through December 31, 2028. This methodology will allow for actions to be completed as funding becomes available, and when special grants are established to fund similar projects.

The cost of work by Wood County employees to develop and complete these actions will be funded by the general budget for Wood County. The EMA Director's work to provide leadership, coordination, and communication is included in that job description, which is funded by the Wood County general fund, EMPG funding, and other local assessments. The work of other county officials will be funded by the daily operational budget for their department. The county budget, dependent upon the department, may be partially funded by tax assessments (ditch maintenance, 911 coverage, etc.), user fees (permit fees, inspection fees, fees for service, and other schedules of payment), or other grants and private funding (economic development fees, CDBG, contracts for service, and other federal programs.) All large projects, including structurally engineered solutions, natural resource preservation, and property protection will be funded by special programs. Mitigation grants and other programs made available through the Robert T. Stafford Act, as amended, will be used whenever feasible. Because grant program details and focus points change based upon national priorities and needs, [as well as the federal budget](#), these potential funding sources are not always specifically assigned to strategies

Table 3-8: Wood County Mitigation Goals and Strategies

Rank	Action Type	Lead	Start Date	End Date	Funding
Goal 1 – Dam/Levee Failure: Wood County will work to advocate that dams and reservoirs are well maintained and pose as little risk to the community as possible, considering that all dams are owned by other jurisdictions and/or individuals and Wood County has no authority over these dams.					
1.1 The County will encourage the development and update of emergency action plans for all high-hazard and significant-hazard dams and reservoirs that include accurate inundation areas, correct impact projections, inspection schedules, maintenance thresholds, evacuation plans, other protective actions, and key roles and responsibilities for those officials and workers who would respond to a threat or incident.					
53	Prevention	EMA Director	01.01.24	12.31.29	LOC
1.2 The County will establish lines of communication between dam and reservoir owners/managers and the county to ensure that potential concerns and threats are relayed to the County in a timely fashion, that repairs are made as needed and communicated to the county, and that timely communication occurs in the case of an emergency or an all-dam failure circumstance.					
52	Capability Enhancement	EMA Director	01.01.24	12.31.29	LOC
1.3 The County will develop pre-scripted and/or template information to notify the public if an emergency is imminent or has occurred that includes warning information, affected areas, protective actions, and situation updates.					
54	Public Information	EMA Director	01.01.24	12.31.29	LOC
Goal 2 – Drought/Extreme Heat: Wood County will assess the reliability of water supplies during drought and extreme heat.					
2.1 The County will develop plans for a secondary potable water supply in case the primary supply is unavailable and will determine how to communicate this to residents across the county in a timely fashion.					
47	Property Protection	EMA Director	01.01.24	12.31.29	LOC
2.2 The County will develop local public-private partnerships capable of supplying adequate potable water to communities if water treatment systems experience outages or distribution interruptions.					
49	Property Protection	EMA Director	01.01.24	12.31.29	LOC
2.3 The County will work with all subdivisions, including cities, villages, and townships to implement appropriate water conservation guidelines to be used if water supplies are interrupted or insufficient due to drought.					
51	Property Protection	EMA Director	01.01.24	12.31.29	LOC
2.4 The County will work with jurisdictions, organizations, institutions and agencies to develop a process that makes necessary resources available to individuals with special needs, disadvantages or unique dependencies during extremely hot weather, drought, or during a water shortage.					
50	Social Resiliency	EMA Director	01.01.24	12.31.29	LOC
2.5 The County will work with municipalities, large subdivisions or mobile home parks, and townships to identify and arrange for cooling centers or sleeping quarters in the case of extended or extremely dangerous heat.					
48	Property Protection	EMA Director	01.01.24	12.31.29	LOC
Goal 3 - Earthquake: Wood County will assess damage potential from earthquake and establish a safety plan for residents.					

3.1 The County will work with townships and municipalities to assess the potential damage to buildings and infrastructure under the assumption of a 5.0 magnitude earthquake within 20 miles of the jurisdiction. The county and will determine the estimated safest local area for sheltering after an incident.					
61	Property Protection	EMA Director	01.01.24	12.31.29	LOC
3.2 The County will work with the municipalities and townships to determine how to meet sheltering and mass care needs under the assumption of a 5.0 magnitude earthquake incident within 20 miles of the jurisdiction.					
60	Property Protection	EMA Director	01.01.24	12.31.29	LOC
Goal 4 – Flood: Wood County will work to lessen flooding and property damage from flooding in all areas of the county.					
4.1 The County will maintain participation in NFIP and will continually update floodplain regulations to facilitate maximum understanding of and prevention of flood concerns and to ensure availability of an array of insurance alternatives to property owners and to maximize flood prevention efforts.					
25	Prevention	EMA Director	01.01.24	12.31.29	LOC
4.2 The County will enforce all existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated construction and community development projects in both residential and commercial projects.					
24	Prevention	EMA Director	01.01.24	12.31.29	LOC
4.3 The County will require flood prevention structures and devices for new development and redevelopment including installation of retention/detention ponds, floodwalls, channelization, and elevation of potentially affected roads, bridges, culverts and other structures that may experience flooding due to the project.					
23	Structurally Engineered Projects	EMA Director	01.01.24	12.31.29	HMGP; FMA; BRIC; USACE; ICC
4.4 The County will identify, acquire, and demolish repetitive loss properties to prevent future damages when property owners request the opportunity to relocate due to repetitive flooding.					
26	Prevention	EMA Director	01.01.24	12.31.29	BRIC; FMA; HMGP; LOC
4.5 The County will support, and assist as able to do so, townships to maintain and clear flood debris, including lawn and crop fodder, dead and diseased trees, animal-created obstructions, refuse, and excess sediment from waterways to facilitate natural drainage.					
22	Property Protection	EMA Director	01.01.24	12.31.29	LOC, ICC
4.6 The County will collaborate with watershed organizations, conservancy groups, subdivisions, individuals and the agricultural community to maintain, clean, and improve the flow of ditches, streams, creeks, and rivers.					
31	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC

4.7 The County will work to help residents and businesses understand watershed in Wood County, and to help improve collaboration and cooperation with floodplain managers through better understanding of watersheds, including work with farmers to manage field tile installation in concert with watershed dynamics.					
21	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC; H2OH
4.8 The County will support jurisdictions as they work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to manage storm water and install pumps or increase the size of bridge spans where appropriate.					
20	Property Protection	EMA Director	01.01.24	12.31.29	HMGP; FMA; BRIC; ICC; LOC
4.9 The County will work with farmers and agri-businesses to decrease damages incurred due to nutrient runoff, manure-contaminated drainage, and farm equipment or structures that have a compounding effect on flash flooding by continuing to support and participate in H2Ohio and other conservation programs.					
27	Natural Resource Protection	EMA Director	01.01.24	12.31.29	H2OH; COG; ICC; LOC
4.10 The County will work with the railroads and pipeline owners to decrease damage potential from surface runoff, hazardous chemicals infiltration with flood water, and or culverts, bridges, and other structures that worsen flooding or contamination of property.					
19	Property Protection	EMA Director	01.01.24	12.31.29	LOC
4.11 The County will create additional natural habitat and restore wetlands as a means to contain flood waters and to allow natural drainage.					
29	Natural Resource Protection	EMA Director	01.01.24	12.31.29	H2OH; USGS; FMA; HMGP; LOC
4.12 The County will work to repair county owned and maintained roadways and streets that are damaged by the effects of flash flooding, including berms beside road ditches or drainage ditches and streams.					
28	Property Protection	EMA Director	01.01.24	12.31.29	HMGP; LOC BRIC; FMA
4.13 The County will work with farmers and field tile installers to identify the most effective manner in which tile are installed to direct drainage into the natural watershed for the acreage being tilled, and to run the tiles into the best waterway to receive the water.					
30	Property Protection	EMA Director	01.01.24	12.31.29	LOC: Other
Goal 5 – Hazardous Materials Incident: Wood County will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents.					
5.1 The County will work to improve signage and traffic indicators on county-owned and maintained roadways as a way to prevent collisions involving vehicles carrying hazardous substances, and to lessen the use of local roads with insufficient load limits by commercial or agricultural vehicles during detours.					

13	Property Protection	EMA Director	01.01.24	12.31.29	LOC
5.2 The County will identify and acquire funding for first responder training so that when hazardous materials are spilled or released, response is rapid and effective.					
16	Capability Enhancement	EMA Director	01.01.24	12.31.29	LOC; OTHER
5.3 The County will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction so that the appropriate reporting of hazardous and extremely hazardous materials is done in an accurate and timely fashion, and so that reports of spills and releases are done in a prompt and accurate manner.					
12	Property Protection	EMA Director	01.01.24	12.31.29	LOC
5.4 The County will work with haulers and transporters of hazardous substances to ensure transportation is done in a safe manner, and so that any spills or releases are promptly and thoroughly cleaned up and disposed of in a proper way.					
15	Property Protection	EMA Director	01.01.24	12.31.29	LOC, OTHER
5.5 The County will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.					
17	Public Information	EMA Director	01.01.24	12.31.29	LOC
5.6 The County will work with pipeline companies to ensure pipelines are maintained in the safest way possible, that safety data is created and maintained, and that the air and water is monitored to detect any contamination so emergency procedures are activated appropriately.					
14	Prevention	EMA Director	01.01.24	12.31.29	LOC, Other
5.7 The County will work to facilitate and require railroads to install crossing-blocked digital signals at nearby intersections to facilitate timely and convenient detours and travel diversions when crossings are blocked for any period of time.					
18	Capability Enhancement	EMA Director	01.01.24	12.31.29	LOC
Goal 6 – Invasive Species: Wood County will lessen the cost of plant debris caused by invasive species that weaken and destroy trees that cause large amounts of debris requiring removal after storms of various types.					
6.1 The County will work to clear public property of dead or diseased trees that have been affected by invasive species, and to clear county property of noxious weeds or other pestilence that can spread to other properties.					
64	Property Protection	EMA Director	01.01.24	12.31.29	LOC
6.2 The County will work to identify reasonably priced and adequate debris disposal options or alternate methods of handling and disposing of debris after storms, and will identify a source of funding for these programs.					
63	Public Information	EMA Director	01.01.24	12.31.29	LOC
6.3 The County will provide information to property owners and businesses about the noxious weeds, plant disease, pestilence, or nuisance wildlife that is prevalent in Wood County and will refer them to established guidance to control this kind of infestation or pestilence.					
62	Public Information	EMA Director	01.01.24	12.31.29	LOC
Goal 7 - Landslide/Mudslide: Wood County will support efforts to lessen damages from landslide and mudslide along the Maumee River.					

7.1 The County will support programs that identify risk and reduce slope degradation and sedimentation along the all rivers to lessen property deterioration caused when riverbanks and adjoining properties become unstable .					
34	Property Protection	EMA Director	01.01.24	12.31.29	USACE; HMGP; BRIC; LOC
7.2 The County will advocate for slope stabilization and protection actions along the all rivers to reduce vulnerability to property owners with homes and other structures along the riverbanks.					
33	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC
7.3 The County will work with Soil and Water Conservation and others to develop a list of potential resources and solutions for property owners significantly affected by landslide and/or mudslide risks, and will create a point-of-contact for property owners with damages or concerns .					
35	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC
7.4 The County will assess the condition of ditch and stream banks across the county to identify and document damage to berms or waterway banks due to landslide, and to identify potential repairs or solutions to the damage.					
32	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC
Goal 8 – Power Outage: Wood County will work to lessen the impact of electrical outages.					
8.1 The County will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant.					
58	Prevention	EMA Director	01.01.24	12.31.29	LOC, ICC
8.2 The County will work to support development standards which require underground installation of electric lines in sub-divisions and appropriate commercial or industrial neighborhoods and/or will enforce underground utility regulations as applicable .					
57	Prevention	EMA Director	01.01.24	12.31.29	LOC
8.3 The County will acquire adequate generators and/or replace and upgrade current generators to power critical services during power outages, including shelters, pump stations, and public safety and administration buildings, other locations where the public can take refuge during dangerous storms, with an emphasis upon county-owned or used properties or multi-use facilities, including schools, that are able to serve multiple community needs .					
56	Property Protection	EMA Director	01.01.24	12.31.29	HMGP; BRIC; LOC, OTHER
8.4 The County will develop a fuel supply plan to improve reliability of fuel demand for county generators during power outages, and to support townships and villages when generator fuel is necessary on a long-term basis or during fuel shortages.					
55	Property Protection	EMA Director	01.01.24	12.31.29	LOC
8.5 The County will develop, in conjunction with energy providers, access to information about correct installation of generators in residences to improve the safety of generator use during an extended outage.					

59	Property Protection	EMA Director	01.01.24	12.31.29	LOC
Goal 9 – Severe Storms: Wood County will lessen the damages suffered from all severe storms, including windstorms (derecho or straight-line wind), tornadoes, or severe thunderstorms comprised of heavy rain, wind, hail, and lightning.					
9.1 The County will encourage the use of storm-resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance with emphasis upon future development and changing threats.					
40	Property Protection	EMA Director	01.01.24	12.31.29	LOC, ICC
9.2 The County will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property, and will work to help residents have access to flood insurance information and availability.					
36	Public Information	EMA Director	01.01.24	12.31.29	LOC
9.3 The County will promote the continuation, improvement of warning and notification systems that include wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system, including outdoor warning sirens, that would inform the public of impending life-threatening conditions with emphasis upon areas without adequate wireless or broadband coverage.					
37	Public Information	EMA Director	01.01.24	12.31.29	HMGP; LOC, OTHER
9.4 The County will work to encourage and support a system of mutual aid procedures between municipalities and townships, as well as those based in adjacent counties, that allows for rapid and effective deployment of mutual aid when local forces are understaffed, unavailable, or otherwise unable to reach victims or are overwhelmed by the volume of calls.					
41	Capability Enhancement	EMA Director	01.01.24	12.31.29	LOC
9.5 The County will work with railroads to lessen the impact of crossing blockages that prevent and delay delivery of public safety services in a timely fashion through the information systems that notify dispatchers and emergency vehicles of current blockages for the purpose of re-routing emergency traffic and shortening arrival time to the scene of the emergency.					
43	Capability Enhancement	EMA Director	01.01.24	12.31.29	LOC, OTHER
9.6 The County will support the development of safe rooms for single and multi-family residential structures and mobile home parks.					
42	Property Protection	EMA Director	01.01.24	12.31.29	BRIC; HMGP; OTHER
9.7 The County will support the development of local shelters and comfort stations for residents of mobile homes, homes without basements, transient persons in the county, and others who are displaced by severe weather events.					
38	Social Vulnerability	EMA Director	01.01.24	12.31.29	HMGP; LOC
9.8 The County will work with public school districts to identify options and develop agreements for their participation in providing transportation, food service, sheltering and other services necessary under conditions of major evacuations, sheltering, or mass care needs caused by any storms, weather conditions, or disasters, and will assist them in making their facilities shelter-ready.					
39	Social Vulnerability	EMA Director	01.01.24	12.31.29	LOC

9.9 The County will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and emergency assistance.					
40	Public Information	EMA Director	01.01.24	12.31.29	LOC
9.10 The County will support the implementation of fully interoperable communication systems and procedures between responding departments and disciplines for effective response to major incidents.					
44	Public Information	EMA Director	01.01.24	12.31.29	OTHER; LOC
Goal 10 – Water Quality: Wood County will work to improve the safety of the water supply from wells and water treatment systems.					
10.1 The County will establish and maintain an emergency water supply plan that includes alternate sources of water and conservation procedures to be utilized if water sources are unable to provide potable water to meet public needs.					
1	Property Protection	EMA Director	01.01.24	12.31.29	LOC
10.2 The County will support ongoing and further improvements to water treatment systems that enhance the ability to detect and treat harmful contaminants.					
2	Prevention	EMA Director	01.01.24	12.31.29	LOC; OTHER
10.3 The County will support research to determine the comprehensive cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.					
4	Prevention	EMA Director	01.01.24	12.31.29	LOC, ICC; COG; OTHER
10.4 The County will work with farmers to support land stewardship initiatives, including but not limited to river cleaning efforts, pesticide and fertilizer application standards and training, conservation efforts to improve protection of natural resources, and water well testing on homesteads.					
10	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC, OTHER
10.5 The County will work with the farm business community to establish enhanced collaboration and participation in programs that protect and preserve agriculture, such as the Agricultural Easement Purchase Program, Current Agricultural Use Valuation, H2Ohio , development of agricultural districts, and agricultural zoning for appropriate areas that are best used by production agriculture.					
12	Property Protection	EMA Director	01.01.24	12.31.29	COG; ICC; H2OH; OTHER
10.6 The County will work with the farm business community to facilitate communication between farmers and commercial and industrial neighbors to evaluate and improve protection of the water supply, conservation of soil, and improved management of chemicals used for production purposes of all types.					
11	Public Information	EMA Director	01.01.24	12.31.29	LOC; OTHER

10.7 The County will work with non-farm residents and businesses to identify any contribution to the contamination of the water supply through nutrient runoff or other disposal practices, and to facilitate cooperation between farm and non-farm entities in the effort to preserve and protect natural resources.					
9	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC, H2OH; OTHER
10.8 The County will work with farmers and other owners of large parcels to investigate and develop drainage plans and solutions such as widespread drainage tile installation that works in concert with natural watersheds , improved culverts and bridge spans, enhanced ditch cleaning and river maintenance, and will search for financial incentive programs to assist them in the implementation of those actions either privately or publicly.					
5	Structurally Engineered Project	EMA Director	01.01.24	12.31.29	LOC, H2OH; OTHER
10.9 The County will support the further development of a multi-jurisdictional countywide collaborative water authority to manage water treatment and delivery systems as they apply to Wood County and to address contamination of the source water that may endanger local water.					
6	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC, ICC, COG; OTHER
10.10 The County will support development of inter-connected and redundant water supplies that are readily available to quickly replace a contaminated water supply through standard distribution systems.					
3	Structurally Engineered Project	EMA Director	01.01.24	12.31.29	LOC, BRIC; HMGP; ICC
10.11 The County will work to identify and acquire funding for improvements to soil and water conservation efforts, including actions at all levels and in all industries as well as on personal property, to lessen contamination of the water through surface runoff and nutrient loss.					
7	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC
10.12 The County will support including the Williamsburg Lake in water quality monitoring to detect runoff nutrients, algal bloom, sedimentation, and other contaminants in the water, in consideration of its source water being field runoff, and its destination being the Maumee River.					
8	Natural Resource Protection	EMA Director	01.01.24	12.31.29	LOC
Goal 11 – Winter Storms: Wood County will lessen damages suffered from severe winter storms and blizzards.					
11.1 The County will work to plow and clear county-maintained roadways to facilitate emergency traffic, necessary travel, and general access for the flow of goods, products, and people.					
45	Property Protection	EMA Director	01.01.24	12.31.29	LOC
11.2 The County will provide information to residents about protective actions during winter storms, such as keeping their homes warm during					

power outages, how to properly install and use power generators during extended outages, and driving in extreme conditions.					
46	Property Protection	EMA Director	01.01.24	12.31.29	LOC

3.3.2 Cities and Developing Townships

Cities include Bowling Green, Northwood, Perrysburg, and Rossford. Developing townships include Lake, Middleton and Perrysburg Townships.

These cities comprise most of the urbanized area in Wood County. In the past decade, each has significantly developed retail and industrial areas and increased residential housing. All the cities exist in the shadow of the City of Toledo and Lucas County and are vulnerable to the consequences of regional decisions and actions that are much larger than Wood County alone.

These cities have shared their desire for smart development, containing the cost of urban sprawl and retaining the benefit of suburban living. All cities have said, in their own words, that development standards have helped them grow in a sustainable manner and regulation has been an asset when considering resiliency in light of growth.

Bowling Green is the largest of these four municipalities, with a population just over 30,000. Bowling Green State University is located inside the city. Perrysburg has just over 20,600 residents and is a major metropolitan retail and service area. Rossford, at 6,293 residents, and Northwood, at 5,265 residents, are much smaller. Both are located in the suburban sprawl of northern Wood County. These cities share similar concerns, face the same challenges, and approach disaster mitigation in a similar fashion.

The strategies identified below will be managed by the City Administrator in each city. These officials are all full-time, appointed employees. The Administrator will work with the city’s mayor and council to make decisions about selection of strategies for action plans and determination of a full group of city employees and elected officials to be involved in carrying out the project in their respective roles. The timeline for each strategy includes a start date of January 1, 2019 and an end date of December 31, 2023.

Many of these actions will be funded by the [city or township operational budgets](#). Others will be [partially](#) funded by special grants, such as Building Resilient Infrastructure in Communities program, Flood Mitigation Assistance, Hazard Mitigation Grant Program, or [other federal](#), state and private funding.

[The three developing townships \(Perrysburg, Middleton, and Lake\) are adjacent to and between the cities geographically. Perrysburg Township lies to the immediate east of Perrysburg and Rossford, and includes many commercial and industrial sites, multi-family housing and residential neighborhoods. Middleton Township is between Perrysburg and Bowling Green, and includes](#)

the development corridor on State Route 25 as well as residential sprawl from the north. Lake Township is to the east of Northwood and Rossford, and in addition to being home to many businesses and industries, they are the hub of transportation as the I-280 interchange of the Ohio Turnpike is in the township. This is the busiest interchange on the Ohio Turnpike. Residential neighborhoods are growing rapidly as workers from nearby cities choose homes in the suburbs. Business growth is huge as entrepreneurs and franchise owners put down stakes in a budding community of urban consumers.

All these jurisdictions are home to retail centers, medical facilities and industries, and while they enjoy the benefits of this development, they also bear the burden of supporting them. While the taxing structure is completely different from the cities, these townships bear the same responsibility for maintaining infrastructure, providing public safety services, and managing future development. They are staffed very much like the cities, with township administrators, elected officials, and others. They have their own fire and police departments in some cases, and are fully responsible for managing disasters and other interruptions to services in their jurisdictions. Therefore, they have been combined with the four cities for mitigation actions.

The identified mitigation actions and strategies will be managed by Township administrators with assistance from staff members and the elected officials. Their budgets are generally capable of supporting administrative costs, and they are relatively free-standing units of government in Wood County, operating much like a city.

Funding will come from a variety of sources. In many grant programs, the Wood County Commissioners **may** act as fiscal agent on behalf of all townships. That may **not** be the **chosen method** here. The townships may choose to apply directly for a grant from an identified fund. Some actions, especially those that tend to be maintenance or operational, will be funded by the township budget. The Township Trustees will work with the Wood County Commissioners to identify special funding programs and to decide who and how the grant funds or special project dollars will be administered

Table 3-9: City and Developing Township Mitigation Goals and Strategies

Priority								
Bowling Green	Northwood & Rossford	Perrysburg	Developing Townships	Action Type	Lead	Start Date	End Date	Funding Source
Goal 1 – Dam/Levee Failure: The City/Township will work to ensure all dams and reservoirs are well maintained and pose as little risk to the community as possible								
1.1 The City/Township will collaborate with dam owners to have current and comprehensive emergency action plans in place for the City of Bowling Green reservoir and Candlewood East and West dams that include accurate inundation areas, correct impact projections, inspection schedules, maintenance thresholds, evacuation plans, other protective actions, emergency messaging, and descriptions of key roles and responsibilities for those								

officials and workers who would respond to a threat or incident.									
45	N/A	N/A	Bowling Green and Middleton 41	Property Protection	City or Township Administrator	01.01.24	12.31.29	LOC	
2.2 The City/Township will advocate that dams are well maintained, a warning and notification plan for emergencies exists and is periodically tested, and that communication about dam issues or concerns is communicated with Wood County and Township officials in a timely fashion.									
44	N/A	N/A	Bowling Green and Middleton 42	Property Protection	City or Township Administrator	01.01.24	12.31.29	LOC	
Goal 2 – Drought/Extreme Heat: The City will assess the reliability of water supplies during drought and extreme heat.									
2.1 The City will review plans for redundant or additional potable water supplies in case the primary supply is unavailable and will determine how to communicate this to residents in the village at the needed time.									
40	37	33	38	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC	
2.2 The City/Township will develop water conservation procedures and guidelines to be used if water supplies are interrupted or insufficient due to drought.									
41	40	34	37	Property Protection	City/Township Administrator	01.01.24	12.31.29	LOC	
2.3 The City/Township will develop a process that makes necessary resources available to individuals with special needs, disadvantages or dependencies during extremely hot weather, drought or during a water shortage.									
39	39	36	36	Social Vulnerability	City/Township Administrator	01.01.24	12.31.29	LOC	
2.4 The City/Township will identify and arrange for cooling centers or sleeping quarters in the case of extended or extremely dangerous heat waves for residents, large subdivisions, or mobile home parks in their jurisdiction.									
38	38	35	35	Capability Enhancement	City/Township Administrator	01.01.24	12.31.29	LOC	
Goal 3 – Earthquake: The City will assess damage potential from earthquake and establish a safety plan for residents.									
3.1 The City/Township will assess the potential damage that would result from a 5.0 earthquake with an epicenter within 20 miles of the jurisdiction through a survey of structures and will determine the estimated safest local area for sheltering after an incident.									
43	42	40	34	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC	
3.2 The City/Township will develop a plan to meet mass care needs, including staffing and supplying the shelter and meeting the needs of underserved and disadvantaged populations, under the assumption of a 5.0 earthquake with an epicenter within 20 miles of the jurisdiction.									
42	41	41	33	Social Vulnerability	City/Township Administrator	01.01.24	12.31.29	LOC	

Goal 4 – Flood: The City will work to lessen flooding and property damage from flooding in the jurisdiction.									
4.1 The City will join/resolve sanctions/maintain, as applicable, good-standing participation in NFIP and will update and modernize floodplain regulations as necessary to facilitate maximum understanding of and prevention of flood concerns as well as ensuring availability of an array of insurance alternatives to property owners within the jurisdiction.									
30	15	20	N/A	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC	
4.2 The City/Township will enforce existing regulations, including zoning, construction regulations, floodplain regulations, subdivision rules, and local and state regulations pertaining to new or renovated residential or commercial construction and community development projects either directly or through county enforcement agreements.									
20	14	24	2	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC	
4.3 The City/ Township will require structurally engineered flood prevention structures and devices for new development including installation of retention and/or detention ponds, floodwalls, channelization, pumps and other water control structures, and elevation of potentially affected roads, bridges, culverts and structures that may experience flooding due to the project.									
21	5	22	19	Structurally Engineered Projects	City/Township Administrator	01.01.24	12.31.29	HMGP FMA/BRIC USACE	
4.4 The City/Township will identify, acquire, and demolish repetitive loss properties to prevent future damages when property owners request the opportunity to relocate due to repetitive flooding.									
24	12	23	20	Prevention	City/Township Administrator	01.01.24	12.31.29	HMGP FMA BRIC	
4.5 The City/Township will maintain and clear debris, including lawn and crop fodder, dead/diseased trees, animal-created obstructions, refuse, and excess sediment or vegetation from waterways not under other maintenance agreements with other organizations to facilitate natural drainage.									
22	6	24	18	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC, ICC, Other	
4.6 The City/Township will collaborate with watershed organizations, conservancy groups, conservation organizations and Soil & Water Conservation Service to maintain, clean, and improve ditches, streams, creeks, and rivers in the jurisdiction that are not under other maintenance agreements.									
29	13	27	21	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC, ICC, Other	
4.7 The City/Township will work to maintain, upgrade, repair or replace storm sewers, culverts and storm basins to facilitate effective management of storm water and install pumps or increase the size of bridge spans where appropriate, either directly or through the contracted provider.									
23	7	26	17	Property Protection	City /Township Administrator	01.01.24	12.31.29	BRIC HMGP LOC	

4.8 The City/Township will work with agricultural producers and transportation businesses to decrease damages incurred in municipalities related to industrial runoff, hazardous or contaminated drainage, livestock waste, and elevated structures or infrastructure that have a compounding effect on flash and surface flooding through the use of structures, devices, and containment ponds.								
28	10	N/A	23	Property Protection	City/Township Administrator	01.01.24	12.31.29	LOC
4.9 The City/Township will use creation of natural habitat and restoration of wetlands as a means to contain flood waters and to allow natural drainage.								
26	11	25	22	Natural Resource Protection	City/Township Administrator	01.01.24	12.31.29	USGS USACE FMA HMGP LOC
4.10 The City/Township will work to repair roadways and streets that are damaged by the effects of flash flooding, including berms beside ditches and catch basins.								
27	8	19	15	Property Protection	City/Township Administrator	01.01.24	12.31.29	HMGP BRIC LOC OTHER
4.11 The City/Township will work with the railroads and pipeline owners to decrease damage potential from surface runoff, hazardous chemicals infiltration with flood water, and/or culverts, bridges, and other structures that worsen flooding or contamination of property in the jurisdiction.								
25	9	28	16	Property Protection	City/Township Administrator	01.01.24	12.31.29	LOC
Goal 5 – Hazardous Materials Incident: The City/Township will work to lessen both the number of spills, leaks, and releases from hazardous materials sources, as well as lessen the damages from such incidents through rapid and effective response to the incident.								
5.1 The City/Township will work to improve signage and traffic indicators as a way to prevent collisions involving vehicles carrying hazardous substances especially when highway detours route carriers onto alternate roads and streets that are insufficiently designed for that type of traffic.								
6	1	12	13	Public Information	City/Township Administrator	01.01.24	12.31.29	LOC
5.2 The City/Township will identify and acquire funding for first responder training and commodity identification so that when hazardous materials are spilled or released, response is rapid and effective.								
7	4	11	12	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC OTHER
5.3 The City/Township will develop and maintain collaborative relationships with businesses and organizations who transport, use, and distribute hazardous substances in the jurisdiction to facilitate disclosure of hazardous substances and to facilitate proper handling of substances and sharing of highly trained, technical personnel and resources.								
9	3	13	11	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC

5.4 The City/Township will work with businesses and residents to encourage proper pre-digging procedures are used before any excavation or disruption of the soil occurs to prevent the breach of pipelines and underground hazardous substance management systems.									
8	2	10	14	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC	
Goal 6 – Invasive Species: The City/Township will lessen the cost of plant debris caused by invasive species, including noxious weeds, plant and tree disease, or nuisance animals that cause large amounts of debris to collect and dispose of after storms of all kinds.									
6.1 The City/Township will work to clear public property of dead or diseased trees, vegetation or nuisances that caused by invasive species.									
35	33	38	37	Property Protection	City/Township Administrator	01.01.24	12.31.29	HMGP LOC	
6.2 The City/Township will work to identify reasonably priced and adequate disposal options for debris that is collected as part of storm clean up.									
36	32	37	36	Public Information	City/Township Administrator	01.01.24	12.31.29	LOC	
Goal 7 – Landslide/Mudslide: The City/Township will lessen damages from landslide and mudslide along the Maumee River or local streams and ditches.									
7.1 The City/Township will support programs that reduce landslide and sedimentation along rivers, ditches and streams to reduce the property deterioration caused when riverbank structures have reduced stability and/or to lessen the loss of farmland and other property.									
N/A	N/A	38	39	Natural Resource Protection	City/Township Administrator	01.01.24	12.31.29	USACE LOC	
7.2 The City/Township will advocate for slope protection actions along the Maumee River and other steep slopes of waterways to reduce vulnerability to property owners with homes and other structures along the banks.									
N/A	N/A	39	Only Middleton 40	Natural Resource Protection	City/Township Administrator	01.01.24	12.31.29	LOC	
Goal 8 – Power Outage: The City/Township will work to eliminate power outages by hardening electrical service utilities.									
8.1 The City/ Township will work with electric providers to harden electrical service through installation of resilient substations, transformers, and poles that are wind and ice resistant, and underground installation of utilities when feasible.									
34	35	31	32	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC ICC	
8.2 The City/Township will work to support development that requires underground installation of electric lines in sub-divisions and appropriate industrial or commercial neighborhoods.									
33	36	30	31	Property Protection	City/Township Administrator	01.01.24	12.31.29	LOC ICC	
8.3 The City/Township will acquire, upgrade or replace generators to power critical services during power outages, including at shelters, pump stations, public safety buildings, and treatment facilities, and administration buildings.									
32	34	32	30	Prevention	City/Township	01.01.24	12.31.29	LOC	

Administrator								
Goal 9 – Severe Storms: The City/Township will lessen the damages suffered from all severe storms, including windstorms (derecho or straight-line wind), tornadoes, or severe thunderstorms consisting of heavy rain, wind, hail, and/or lightning.								
9.1 The City will support the encourage use of wind resistant construction materials such as metal roofs and wind-resistant siding in both residential and commercial construction, renovation, and maintenance with an emphasis upon future development and changing threats.								
18	24	9	10	Property Protection	City/Township Administrator	01.01.24	12.31.29	LOC ICC Other
9.2 The City/Township will identify community storm shelters and safe areas to serve as a local hub for information, coordination, and communication during storm response and recovery, and serve as shelters for overnight stay when necessary.								
11	16	1	1	Social Vulnerability	City/Township Administrator	01.01.24	12.31.29	LOC
9.3 The City/Township will advocate that all property owners, public and private, carry adequate and appropriate insurance to cover relevant hazards that may damage their property.								
19	25	7	9	Social Resiliency	City/Township Administrator	01.01.24	12.31.29	LOC
9.4 The City/Township will promote the continuation, improvement of, and filling of gap areas with redundant warning and notification systems that could include outdoor sirens, wireless notification options, social media warnings, reverse 9-1-1, and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of impending life-threatening conditions.								
10	17	8	2	Public Information	City/Township Administrator	01.01.24	12.31.29	LOC OTHER
9.5 The City/Township will establish a system of mutual aid procedures that allows for rapid and effective deployment of mutual aid when local forces are unable to reach victims or are overwhelmed by the volume of calls.								
16	23	6	8	Capability Enhancement	City/Township Administrator	01.01.24	12.31.29	LOC
9.6 The City/Township will work with railroads to lessen the impact of crossing blockages that prevent and delay delivery of public safety services in a timely fashion through information or communication systems that notify dispatchers and emergency vehicles of current blockages for the purpose of re-routing emergency traffic and shortening arrival time to the scene of the emergency.								
17	18	N/A	3	Capability Enhancement	City/Township Administrator	01.01.24	12.31.29	LOC
9.7 The City/Township will support the development of safe rooms for single and multi-family residential structures using available safe room grant opportunities.								
15	19	3	4	Property Protection	City/Township Administrator	01.01.24	12.31.29	HMGF BRIC
9.8 The City/Township will ensure that agreements exist for sheltering residents when homes are unlivable due to storm damage and evacuations								

12	20	2	5	Public Information	City/Township Administrator	01.01.24	12.31.29	LOC
9.9 The City/Township will educate the public about emergency procedures, including but not limited to evacuation, shelter-in-place, and the summoning of emergency assistance.								
14	21	4	7	Public Information	City/Township Administrator	01.01.24	12.31.29	LOC
9.10 The City/Township will support the implementation of completely interoperable communication systems that enables seamless communication between responders across the county in a multi-jurisdictional and multi-discipline setting.								
13	22	5	6	Public Information	City/Township Administrator	01.01.24	12.31.29	LOC Other
Goal 11 – Water Quality: The City/Township will work to improve the safety of the water supply whether it is sourced from private wells, third parties, or contracted water treatment systems.								
10.1 The City/Township will establish and maintain an emergency water supply plan that includes alternate sources of potable water and water conservation procedures for source water shortages and/or contamination at any phase of water treatment and distribution.								
4	27	14	25	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC
11.2 The City/Township will support improvements to water treatment systems to increase the ability to detect and treat harmful contaminants.								
3	26	15	24	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC ICC
11.3 The City /Township will support additional research to determine the complete cause of source water contamination and the creation of financial assistance programs to implement cause-based solutions and corrective actions.								
5	30	18	27	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC
11.4 The City/Township will support continuation and furtherance of a multi-jurisdictional collaborative water entity to oversee and advise water treatment and delivery systems as they serve Wood County and to address contamination of the source water that may endanger locally distributed water.								
2	29	16	26	Natural Resource Protection	City/Township Administrator	01.01.24	12.31.29	LOC, ST, Other
11.5 The City/Township will support development of inter-connected and redundant water supplies that are readily available to quickly replace a contaminated water supply through standard distribution systems.								
1	28	17	28	Structurally Engineered Projects	City/Township Administrator	01.01.24	12.31.29	LOC, ST, Other
Goal 12 – Winter Storm: The City will lessen damages suffered from severe winter storms and blizzards.								
12.1 The City/ Township will work to plow and clear roads and streets to facilitate emergency traffic, necessary travel, and business access.								

37	31	29	29	Prevention	City/Township Administrator	01.01.24	12.31.29	LOC
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3.3.3 Villages

There are twenty-one villages in Wood County. The largest two are Walbridge (3,011) and North Baltimore (3,369). There are eight villages (Bairdstown, Custar, Hoytville, Jerry City, Milton Center, Portage, Tontogany, and West Millgrove) with less than five hundred residents. Six have between five hundred and one thousand residents (Bloomdale, Bradner, Cygnet, Grand Rapids, Risingsun, and Wayne). Five (Haskins, Luckey, Millbury, Pemberville and Weston) have between one thousand and fifteen hundred residents.

None of the villages are served by a paid staff of workers, but some have one or two employees. Others have minimal part-time workers who tend to be street maintenance and/or utility workers. The elected officials work as volunteers and most hold down full-time jobs outside the village. While some elected officials, especially mayors, are retired, many of them fulfill other jurisdictional roles, such as firefighter or EMT, road maintenance workers, or others, in another village or township. Some also work for Wood County, the water and sewer district, a public school, or other entity that would require their time in the event of a major disaster. Many officials are out-of-town during the workday, making official business necessary in the evening and on weekends, which does not always make officials in larger jurisdictions available at the same time. They fulfill multiple roles and balance conflicting priorities on a regular basis. There is no known instance where a village mayor performs those duties as a full-time employee or volunteer.

These communities have been addressed together because they share common vulnerabilities, have common characteristics of the population and property at risk, hold common financial capability as jurisdictions to address mitigation strategies. They share common opinions of how the strategies will have a positive effect on disaster damage, and they are aware of what types of projects their village would be able to successfully implement.

These villages share common capabilities. Most have required assistance from Wood County or another municipality because their budgets are not sufficient to cover the response and recovery cost of devastating disaster events. They share the same challenges and vulnerabilities to be prepared and resilient and to serve their residents who are disadvantaged, underserved or have specialized needs. All villages tend to have higher numbers of residents who need additional help after storms, and the number of elderly whose adult children no longer live in the area is rising every year. The trend of moving into the population centers and away from the family farm hits Wood County hard, especially in the rural villages.

Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC			
1.2 The village will establish lines of communication between themselves and the county to ensure that potential concerns and threats are relayed to the County in a timely fashion, that repairs are made as needed and communicated to the county, and that timely communication occurs in the case of an emergency.																			
n/a	n/a	n/a	n/a	30	22	n/a	n/a	n/a	n/a	n/a	n/a	12	n/a		n/a	n/a	n/a	n/a	n/a
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC			
1.3 The Villages will work with the county to develop pre-scripted and/or template information to notify the public if an emergency is imminent or has occurred that include warning information, affected areas, protective actions, and situation updates including involvement of other dams or reservoirs/lagoons.																			
n/a	n/a	n/a	n/a	31	23	n/a	n/a	n/a	n/a	n/a	n/a	13	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC			
Goal 2: The Village will address the consequences of drought and extreme heat through development of preparedness measures.																			
2.1 The Village will develop a plan for a secondary potable water supply in case the primary supply is unavailable due to drought or shortages of the source water supply, and will communicate the need for individual households to have emergency water supplies for family members, pets, and livestock.																			
28	27	27	22	22	23	27	28	27	25	27	25	31	27	27	27	27	27	27	28
Community Resilience				Mayor or Administrator				01.01.24				12.31.29				LOC			
Goal 3: The Village will establish its vulnerability to damages from an earthquake.																			
3.1 The Village will assess the potential damages from a 5.0 earthquake with an epicenter within 20 miles of the village, including buildings and infrastructure, and report those potential loss findings to the Wood County EMA.																			
29	28	28	23	28	20	28	29	28	26	28	26	30	28	28	28	28	28	28	27
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC			
Goal 4: The Village will work to lessen flooding and property damage due to flooding in the village.																			
4.1 The Village will establish or maintain participation in NFIP, and will develop and/or update floodplain regulations as required to ensure residents have a variety of property insurance options																			
18	10	12	7	1	1	1	1	1	18	1	10	4	1	7	15	10	1	1	7
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC			
4.2 The Village will adopt and/or enforce applicable regulations such as zoning rules, floodplain regulations, subdivision rules and other local and state regulations as part of residential or commercial development projects.																			
19	11	13	8	2	2	2	2	2	19	2	11	5	2	8	16	11	2	2	8
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC			
4.3 The Village will acquire and demolish repetitive flood damage properties when the property owner requests the opportunity to relocate through use of this program.																			
20	12	14	9	3	3	3	3	3	20	3	12	6	3	9	17	12	3	3	9

Prevention				Mayor or Administrator				01.01.24				12.31.29				HMGP; BRIC; FMA; LOC				
4.4 The Village will maintain and properly clear debris, lawn and crop fodder, dead or diseased trees, and other obstructions from ditches and streams not under other maintenance agreements and within the village's responsibility.																				
21	13	15	10	4	4	4	4	4	21	4	13	7	4	10	18	13	4	4	10	10
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
4.5 The Village will work to maintain, upgrade, repair or replace infrastructure owned by the village, including but not limited to storm sewers, culverts or bridges, storm basins, pumps and other infrastructure systems and components to facilitate management of storm water.																				
22	14	16	11	5	5	5	5	5	22	5	14	8	5	11	19	14	5	5	11	11
Structurally Engineered Project				Mayor or Administrator				01.01.24				12.31.29				HMGP; BRIC; FMA; USACE; LOC				
4.6 The Village will use creation of natural habitat and restoration of wetlands as a means to contain flood waters and to allow for natural drainage.																				
23	15	17	12	6	6	6	6	6	23	6	15	9	6	12	20	15	6	6	12	12
Natural Resource Protection				Mayor or Administrator				01.01.24				12.31.29				HMGP; FMA; LOC; OTHER				
4.7 The Village will work to repair or replace roadways and streets, including berms and curbs, that are damaged by the effects of flooding.																				
24	16	18	13	7	7	7	7	7	24	7	16	10	7	13	21	16	7	7	13	13
Property Protection				Mayor or Administrator				01.01.24				12.31.29				HMGP; FMA; BRIC; OTHER: LOC				
GOAL 5: The Village will work to lessen the incidence of and damages from hazardous materials spills, releases, and leaks within the village.																				
5.1 The Village will install and/or maintain adequate signage to clearly direct traffic in, around and through the village as a way to prevent collisions involving vehicles carrying hazardous materials.																				
1	1	9	14	8	17	8	16	14	10	17	1	1	16	14	7	1	14	11	14	14
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
5.2 The Village will work with the Wood County LEPC and/or the fire department having jurisdiction to identify and provide adequate firefighter and EMS training in the management of hazardous materials incidents.																				
2	2	10	15	9	18	9	17	15	11	18	2	2	17	15	8	2	15	12	15	15
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC; OTHER				
5.3 The Village will encourage residents and businesses to use proper pre-digging procedures before any excavation or disruption of soils to prevent the breach of underground pipelines or other utilities.																				
3	3	11	16	10	19	10	18	16	12	19	3	3	18	16	9	3	16	13	16	16
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
GOAL 6: The Village will lessen damages caused by invasive species, including trees, noxious weeds, insects or nuisance animals.																				
6.1 The Village will control or remove invasive species from village-owned property and will dispose of the debris in an approved method.																				

13	17	1	27	20	21	20	27	20	27	23	27	26	8	25	10	17	20	14	17	25
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
6.2 The Village will work with Wood County officials to identify and utilize the most cost-effective debris disposal sites after significant storms that cause excessive debris through collaboration with other communities and the county.																				
14	18	2	28	21	22	21	28	21	28	24	28	27	9	26	11	18	21	15	18	26
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
GOAL 7: The Village will work to harden electrical service by eliminating power outages.																				
7.1 The Village will acquire, upgrade, repair and replace generators to operate all critical facilities and functions under the conditions of a power outage.																				
26	22	25	17	23	24	25	22	22	13	25	20	28	25	20	22	19	25	25	25	20
Property Protection				Mayor or Administrator				01.01.24				12.31.29				HMGP; BRIC; LOC				
7.2 The Village will identify an available fuel supply source for all village-owned generators under the assumption of a potential long-term power outage incident defined by the Wood County EMA or the Wood County Engineer for the purpose of preparedness.																				
27	23	26	18	24	25	26	23	23	14	26	21	29	26	21	23	20	26	26	26	21
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
GOAL 8: The Village will lessen the damages suffered from all severe storms, including thunderstorms (heavy precipitation, hail, lightning, and wind), tornadoes, and windstorms.																				
8.1 The village will identify and establish a community shelter that can be used for a comfort station due to extreme conditions and/or power outages, community information center during or after any disaster, and/or a temporary or overnight shelter for displaced residents, residents without safe harbor, or transient populations due to various forms of storm damage.																				
7	4	3	1	11	8	1	10	8	1	11	4	14	10	1	1	4	8	16	1	1
Social Vulnerability				Mayor or Administrator				01.01.24				12.31.29				LOC				
8.2 The village will encourage and support individual efforts to fund and construct or install a safe room for their private property.																				
8	5	4	2	12	9	12	11	9	2	12	5	15	11	2	2	5	9	17	2	2
Property Protection				Mayor or Administrator				01.01.24				12.31.29				HMGP; BRIC; LOC				
8.3 The village will promote the continuation and improvement of redundant warning and notification systems that might include outdoor warning sirens, wireless notification options, social media warnings, reverse 9-1-1 and opt-in calling systems, broadband and wireless access, and any other warning system that would inform the public of imminent life-threatening circumstances.																				
9	6	5	3	13	10	13	12	10	3	13	6	16	12	3	3	6	10	18	3	3
Public Information				Mayor or Administrator				01.01.24				12.31.29				LOC				
8.4 The Village will establish mutual aid resources to be called upon when any village service is overwhelmed by storms or other disasters, including but not limited to public safety, street maintenance, utility repairs and administrative functions.																				
10	7	6	4	14	11	14	13	11	4	14	7	17	13	4	4	7	11	19	4	4
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				

8.5 The Village will encourage and support owners of multi-family housing, including apartments, condominiums, and mobile home parks to create safe room areas for their residents' protection during severe storms and other disasters.																				
11	8	7	5	15	12	15	14	12	5	15	8	8	14	5	5	8	12	20	5	5
Property Protection				Mayor or Administrator				01.01.24				12.31.29				HMGP; BRIC; LOC				
8.6 The Village will work with other municipalities and Wood County to implement better warning and notification by the railroads for blocked crossings that impede the delivery of public safety services and other life-sustaining services.																				
12	9	8	6	16	13	16	15	13	6	16	9	19	15	6	6	9	13	21	6	6
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
GOAL 9: The Village will support hardening of the water supply, including both water treatment and distribution systems and private wells.																				
9.1 The Village will support improvements to the water system that allow for improved testing and detection of contaminants and improvement to the quality of the distributed water.																				
4	19	19	24	17	14	17	19	17	7	20	17	20	22	17	12	21	17	8	19	17
Natural Resource Protection				Mayor or Administrator				01.01.24				12.31.29				ICC; LOC				
9.2 The Villages will support activities that improve the quality of the source water supplies, including the reduction of harmful runoff, the disposal of refuse into waterways, or the spillage/leakage of harmful substances into the aquifer, waterway, reservoir, or other source location.																				
5	20	20	25	18	15	18	20	18	8	21	18	21	23	18	13	22	18	9	20	18
Natural Resource Protection				Mayor or Administrator				01.01.24				12.31.29				LOC; BRIC; HMGP				
9.3 The Village will support the creation of interconnected and redundant water supplies that are readily available to replace contaminated water sources through standard distribution systems.																				
6	21	21	26	19	16	19	21	19	9	22	19	22	24	19	01	23	19	10	21	19
Structurally Engineered Projects				Mayor or Administrator				01.01.24				12.31.29				BRIC; HMGP; ICC; LOC				
GOAL 10: The Village will lessen damages suffered from severe winter storms and blizzards, including ice, wind, snow, and freezing forms of rain.																				
10.1 The Village will maintain streets, utilities and fire hydrants during and after storms to allow for safe passage within the village, and to prevent losses due to vehicle crashes, fires, health emergencies and other untimely incidents.																				
15	24	22	19	25	26	22	24	24	15	8	22	23	19	22	24	24	22	22	22	22
Property Protection				Mayor or Administrator				01.01.24				12.31.29				LOC				
10.2 The Village will encourage residents to prepare for severe winter storms by having critical supplies, food and water in sufficient quantities to last several days when warnings indicate the possibility of being isolated.																				
16	25	23	20	26	27	23	25	25	16	9	23	24	20	23	25	25	23	23	23	23
Community Resilience				Mayor or Administrator				01.01.24				12.31.29				LOC				

10.3 The Village will encourage residents who are underserved, disadvantaged or otherwise disabled to apply for, use and maintain assistance programs that will keep their households sustainable during winter storms and cold weather.																				
17	26	24	21	27	28	24	26	26	17	10	24	25	21	24	26	26	24	24	24	24
Social Vulnerability				Mayor or Administrator				01.01.24				12.31.29				LOC				
GOAL 11: The Village will work to lessen damages due to the movement of land along the Maumee River that endangers properties by the loss of soils through landslide and mudslide.																				
11.1 The Village will assess and verify any reported property for landslide and mudslide damages, and will advocate for assistance through programs that provide reinforcement of the riverbank and stabilization of the embankment.																				
n/a	n/a	n/a	n/a	n/a	29	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Property Protection				Mayor or Administrator				01.01.24				12.31.29				BRIC; HMGP; FMA; USACE; LOC				

3.3 4 Special Jurisdictions

Bowling Green State University and the Northwest Water and Sewer District are special jurisdictions with their own mitigation strategies. This separation from jurisdictions where they are physically located was made because each entity is fully independent as a public entity, and they operate their own budgets and projects. They do not have a higher authority in county government. As a matter of fact, BGSU is a state university, and therefore part of the state agencies.

The water and sewer district is a special taxing jurisdiction, totally independent from county or village government. They are not limited to providing services in Wood County, and they stretch into other adjacent communities and counties with their programs. They provide a variety of combinations of service that includes owning some distribution lines, some processing plants, and some infrastructure. In some jurisdictions they provide all services; in others, just one or two.

BGSU has determined that not all threats pertain to them. They have eliminated dam failure because there are no nearby dams and they do not own or operate a dam. They also feel that landslide/mudslide does not affect them because of the general nature of their landscape and the lack of any elevation changes or waterways within the property. They ranked the other hazards which are reflected in the jurisdictional vulnerability table in the HIRA.

NWWSD has determined that invasive species and landslide/mudslide have no effect on their facilities or operations.

Table 3-11: Special Jurisdictions Mitigation Strategies

BOWLING GREEN STATE UNIVERSITY (BGSU)					
Rank	Action Type	Lead Role	Start Date	End Date	Funding
Goal 1: BGSU will lessen the effects of drought and extreme heat on their students, staff and property.					
1.1 The University will develop an emergency water plan to provide essential services during a water shortage that includes the continuity priorities and order of shut-down should a severe water shortage occur.					
23	Capability Enhancement	Manager of Support Services	01.01.24	12.31.29	LOC
1.2 The University will develop a source of potable bottled water for short-term use if classes could not be canceled and students/staff sent home during a drought or extremely hot period.					
24	Property Protection	Manager of Support Services	01.01.24	12.31.29	LOC
Goal 2: BGSU will lessen the effects of earthquake on the university property.					
2.1 The University will identify the infrastructure and mechanical systems that would be endangered by an earthquake of a 5.0 magnitude with an epicenter within 20 miles of the property.					
35	Property Protection	Manager of Support Services	01.01.24	12.31.29	LOC
Goal 3: BGSU will lessen the effects of flooding on their campus and will protect their student and staff populations from floods.					
3.1 The University will acquire and install sump pumps with flood monitoring capacity in underground tunnels that house utility lines, technology lines, and communication wiring to prevent debilitating damages to those key systems.					
16	Property Protection	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
3.2 The University will acquire and install sump pumps in residential buildings to protect lower-level residences, infrastructure, and mechanical systems from flood damage and interruption of services.					
17	Property Protection	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
3.3 The University will re-locate, retrofit, or modify mechanical systems and their locations to lessen the incidence of flooding that negatively impacts operations, including locating them in a separate building to remove the component from an impact zone.					

18	Property Protection	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
3.4 The University will elevate flood-prone mechanical systems, sidewalks or trails, roadways, and other repetitively flooded structures.					
19	Property Protection	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
3.5 The University will demolish and replace structures that are repetitively flooded beyond use, where there is no other economically-desirable option to flood-proof the structure.					
20	Prevention	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
Goal 4: BGSU will protect its property, staff and students from the effects of hazardous materials spills, leaks, and releases.					
4.1 The University will develop a procedure to rapidly notify and move students and staff from a building exposed to a hazardous release, and relocate them quickly in another facility, or to lockdown that facility as a shelter-in-place action.					
13	Public Information	Manager of Support Services	01.01.24	12.31.29	LOC
4.2 The University will identify, acquire and install devices in all buildings that can be used to notify occupants of a hazardous release that necessitates evacuation or shelter-in-place for that building.					
14	Public Information	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
4.3 The University will put in place a mechanism for faculty and facility staff in areas that use chemicals (pools, labs, skating rinks, etc.) to notify facilities management of a spill, release or exposure to hazardous substances.					
15	Public Information	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
Goal 5: BGUS will protect its property from the effects of invasive species.					
5.1 The University will utilize plants, flowers and trees that are resistant to insects and plant diseases listed on the Ohio Department of Agriculture invasive species list.					
26	Prevention	Manager of Support Services	01.01.24	12.31.29	LOC
5.2 The University will trim and remove trees and other vegetation that is infected with invasive species, and will replace them with more resistant items.					
27	Prevention	Manager of Support Services	01.01.24	12.31.29	LOC

5.3 The University will adopt policies that do not allow for feeding of wild animals, holding of refuse in outside unprotected bins, or of acting in a manner that would attract nuisance wildlife to the campus, especially in residential areas.					
28	Prevention	Manager of Support Services	01.01.24	12.31.29	LOC
Goal 6: BGSU will protect its property, staff and students from the effects of power outages.					
6.1 The University will identify equipment, supplies and systems alterations or additions that will protect pipes, other plumbing structures, and mechanical systems from extreme cold caused by a power outage during colder times of the year.					
1	Property Protection	Manager of Support Services	01.01.24	12.31.29	LOC
6.2 The University will add, upgrade or retrofit generators to maintain critical operations for an extended period of time greater than the current 4-hour emergency capability.					
2	Property Protection	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
6.3 The University will identify, acquire and install uninterruptable power supplies in research labs and classrooms that conduct long-term research processes, gather continual information, and/or maintain environments for research projects.					
3	Property Protection	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
6.4 The University will identify facilities that can be used for residential students and staff when power outages put them at risk in dormitories and other residential buildings.					
4	Capability Enhancement	Manager of Support Services	01.01.24	12.31.29	LOC
6.5 The University will acquire battery or generator powered lighting for campus safety and security as well as event facilities and/or facilities contracted with public entities to be community emergency shelters to be used as primary or redundant lighting for safety purposes.					
5	Capability Enhancement	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
Goal 7: BGSU will protect its property, staff and students from the effects of severe storms, including severe thunderstorms (heavy rain, hail, lightning, and wind), tornadoes, and wind storms.					
7.1 The University will identify wind-resistant materials and wind-proofing measures that can be taken when buildings are built or repaired, or when general maintenance is performed.					
9	Property Protection	Manager of Support Services	01.01.24	12.31.29	LOC

7.2 The University will develop a plan and identify sheltering options for outdoor events such as athletic events, outdoor instructional activities, and other activities that take students and staff outside during inclement weather conditions.					
10	Social Resiliency	Manager of Support Services	01.01.24	12.31.29	LOC
7.3 The University will consider windbreak installation on campus to reduce the effect of high winds on persons who walk campus to and from classes, or in the course of their job.					
11	Property Protection	Manager of Support Services	01.01.24	12.31.29	LOC
7.4 The University will install wind-resistant landscaping as they replace current shrubs and trees, and will consider the effects of wind when new landscaping is selected and installed.					
12	Property Protection	Manager of Support Services	01.01.24	12.31.29	LOC
Goal 8: BGSU will protect its students and staff from the effects of a water quality emergency.					
8.1 The University will react appropriately and immediately to any warning or notification of a water emergency by their water provider.					
6	Capability Enhancement	Manager of Support Services	01.01.24	12.31.29	LOC
8.2 The University will develop a system of monitoring food and water-borne illnesses to identify a potential contamination issue and take timely protective action.					
7	Capability Enhancement	Manager of Support Services	01.01.24	12.31.29	ICC; LOC
8.3 The University will identify, acquire and install a communication system that can be used to notify all students, staff, and others on campus of an immediate no-drink or no-use water emergency.					
8	Public Information	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
Goal 9: BGSU will protect its property, students and staff from the effects of winter storms (including blizzards, high wind, and extremely cold temperatures.					
9.1 The University will identify alternate transportation options for extreme cold to assist students and staff who generally walk or ride bicycles to classes, work sites, and activities.					
21	Property Protection	Manager of Support Services	01.01.24	12.31.29	ICC; LOC

9.2 The University will identify equipment, supplies and system alterations to protect exposed pipes and other plumbing structures or mechanical systems from extreme cold to prevent interruption in water or sanitation services or interruption in residential living services by keeping equipment and other systems in operation, and to decrease the cost of repair after significant cold periods.					
22	Structurally Engineered Projects	Manager of Support Services	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
NORTHWESTERN WATER & SEWER DISTRICT (NWWSD)					
Goal 1: NWWSD will work to reduce the risk of damage to their system by dam failure.					
1.1 The District will assess the actual threat of failure of all water supply reservoirs in Wood County, and will identify the threat type and characteristics of the threat mechanism to discuss repairs, upgrades and improvements with the dam owner.					
10	Property Protection	District President	01.01.24	12.31.29	LOC
1.2 The District will develop an alternate water supply plan for each structure that supplies the District, to be used for guidance should a particular dam or reservoir fail.					
11	Property Protection	District President	01.01.24	12.31.29	LOC
1.3 The District will identify, install and implement a warning and notification system for employees as well as customers and local officials to be used when a dam or reservoir failure is imminent or has already occurred.					
12	Public Information	District President	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
Goal 2: NWWSD will work to lessen the vulnerability of their system to drought and extreme heat.					
2.1 The District will identify the point at which, during a drought, that the source water will become insufficient to meet needs, and will identify any alternate source of water that is likely available.					
16	Property Protection	District President	01.01.24	12.31.29	LOC
2.2 The District will develop a plan of action to be used if and when the source water supply is insufficient to maintain all operations, and will include a process of altered operations to be utilized during such an incident.					
17	Property Protection	District President	01.01.24	12.31.29	LOC
Goal 3: NWWSD will work to lessen the impact of an earthquake on their system.					
3.1 The District will establish an infrastructure assessment plan to be initiated after an earthquake of any magnitude that includes identification of affected assets, the type of failure that has occurred, and the imminent and following consequences to the District equipment and service.					
1	Property Protection	District President	01.01.24	12.31.29	LOC
3.2 The District will establish a continuity of operations plan that prioritizes the resumption of services in a defined specific order, in consideration of system equipment and operations as well as customer load.					
2	Property Protection	District President	01.01.24	12.31.29	LOC

3.3 The district will investigate, identify and utilize, as possible, pipe and structures that are made of materials that are less vulnerable to earthquake movement than traditional materials.					
3	Property Protection	District President	01.01.24	12.31.29	ICC; LOC
3.4 The District will work to understand the earthquake threat in northwest Ohio, the types of earthquakes that occur, how the ground movement that potentially would affect District assets.					
4	Property Protection	District President	01.01.24	12.31.29	LOC
3.5 The District will retrofit and anchor water tanks and design future tank heights to account for water movement during seismic activity.					
5	Property Protection	District President	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
3.6 The District will identify mitigation projects and grants that may be applicable to District improvements and additions.					
6	Property Protection	District President	01.01.24	12.31.29	LOC
GOAL 4: NWWSD will work to reduce the effect of flooding on their systems.					
4.1 The District will identify and acquire, as feasible, equipment and assets to help manage inundation of rainwater that will potentially overflow reservoirs and containment devices.					
23	Property Protection	District President	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
4.2 The District will acquire and install sump pumps and detention devices for overflow water from excess precipitation, ice melt, or other flooding as a way to protect existing collection, treatment and distribution equipment.					
24	Property Protection	District President	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
GOAL 5: NWWDS will work to reduce the effect of hazardous materials spills and releases on their system.					
5.1 The District will identify hazardous materials highway and rail locations that put water sources at risk of contamination if an incident were to spill significant amounts of substances on the ground, highway or other nearby surfaces or waterways, or would contaminate a water source used for pre-treated water supply.					
7	Property Protection	District President	01.01.24	12.31.29	LOC
5.2 The District will identify how each source water supply could potentially be contaminated, and will identify any mitigation actions that may lessen the likelihood that contamination would reach a water supply reservoir.					
8	Prevention	District President	01.01.24	12.31.29	LOC
5.3 The District will assess the likelihood of a contamination incident that might occur through crop dusting, fertilizer or pesticide application, or other activities that involve the use of or spreading of chemical on farm ground, or the distribution of farm waste products (such as manure) on land close to water sources.					
9	Property Protection	District President	01.01.24	12.31.29	LOC
GOAL 6: NWWSD will work to reduce the effects of power failure on their system.					

6.1 The District will assess the total generator capacity needed to operate without any power coming in for a period of 48 hours; they will then develop a plan to supply the filtration and purification system with adequate generator power by acquiring and installing the generators and uninterrupted power supplies needed to do so, as well as the fuel to operate them.					
13	Prevention	District President	01.01.24	12.31.29	BRIC; HMGP; ICC; LOC
6.2 The District will develop communication tools to help customers cope with short and long-term power outages by providing information about what to do at homes when the District is experiencing a power outage.					
14	Public Information	District President	01.01.24	12.31.29	ICC; LOC
6.3 The District will plan for both long-term (several weeks) and short-term (48-72 hours) power outages, and will assess the impact upon critical services such as firefighting and local food service providers, as well as determine the likely consequences upon their customers in sewer back up in homes or businesses, discharge of untreated sewage into rivers and streams, and cascading effects on manufacturing and industrial sites.					
15	Property Protection	District President	01.01.24	12.31.29	ICC; LOC
GOAL 7: NWWSD will work to reduce the effects of severe thunderstorms (heavy rain, hail, lightning and wind), tornadoes, or windstorms on their system.					
7.1 The District will assess their property for vulnerability to lightning strikes and flash flooding in rapid, intense severe storms, especially under conditions that are projected in the coming decades as a result of climate change.					
18	Property Protection	District President	01.01.24	12.31.29	LOC
7.2 The District will assess the vulnerability of its facilities, especially water towers and elevated structures, to wind damage and destruction, and will identify means to reduce that vulnerability through structurally designed projects and system alterations.					
19	Structurally Engineered Projects	District President	01.01.24	12.31.29	LOC
GOAL 8: NWWSD will work to lessen the impact of a source water or treated water emergency on their system.					
8.1 The District will continue to improve and expand their ability to test and treat raw water and treated water for general use and human consumption.					
20	Prevention	District President	01.01.24	12.31.29	LOC; COG; H2OH
8.2 The District identify and implement warning and notification systems that inform the public of a potential water contamination issue.					
21	Public Information	District President	01.01.24		BRIC; HMGP; ICC; LOC
8.3 The District will continue to work to educate farmers and others about the use of strong chemicals and other substances on crops, gardens, lawns and other areas that could potentially negatively impact the quality of source water in Wood County.					
22	Prevention	District President	01.01.24	12.31.29	LOC
GOAL 9: NWWSD will work to reduce the effects of extreme winter weather and cold on their system.					

9.1 The District will assess their properties and equipment for components and processes that are extremely vulnerable to extreme cold, and will identify methods to reduce that vulnerability through alternate power supplies, environmental controls, or devices that produce heat.					
25	Property Protection	District President	01.01.24	12.31.29	LOC

3.4 IMPLEMENTATION

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

The EMA will monitor the implementation of these strategies through ongoing communication with officials and stakeholders. Even the special jurisdictions will communicate with the EMA Director about implementation of projects related to this plan. When grant opportunities arise, reasonable efforts will be made to secure funding, and the EMA will forward announcements about grant availability and grant awards to county jurisdictions and other parties so long as they are notified of the program. Grant opportunities that are not automatically made known to local EMA officials, as well as those that are, should be monitored by all interested grant-seekers.

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. Some duties associated with mitigation efforts may be within the normal scope of work for specific employees; others may require the hiring of an individual or contractor to handle that specific project. When funding is secured, a detailed project timeline will be developed and actionable steps taken to complete the project. Upon completion, effectiveness will be evaluated by the jurisdiction and findings shared with the EMA and planning team for consideration in developing future projects.

The greatest value in these strategies is the process, knowledge, and reasoning stakeholders utilized during their development. The mitigation planning process required stakeholders to collaborate to evaluate hazards and risks in their community. They were required to examine the local community, predict where and under what conditions damages would occur, and identify how to reduce or eliminate potential damages. The solutions, in the form of mitigation goals and actions that will ultimately develop into projects, had to be developed to maximize benefit to the community while minimizing cost. This process required whole community involvement so that the community was appropriately

represented in the planning process.

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

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