Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action			Julia	Accionitype	Source	Cost	110ject zeau	Julian	Liid Bate
LORAIN CO									
	rain County will reduce the damages caused by flooding in all areas across t	he county			1	1 _			
County 1.1	Lorain County will support land use regulation measures to minimize the effects of flooding.		Ongoing			0		5/1/22	5/1/27
County 1.1.1	Lorain County will sustain, support, adopt, and enforce building codes, floodplain regulations, zoning regulations, and other use and construction standards as applied to development of commercial and residential neighborhoods.		Ongoing			0		5/1/22	5/1/27
County 1.1.2	Lorain County will develop and adopt a countywide comprehensive land use plan.		Ongoing			0		5/1/22	5/1/27
County 1.1.3	Lorain County will educate and advocate for development practices across the county that take into consideration cross-jurisdictional consequences of development, and requires counter-measures to prevent negative effects on neighboring communities.		Ongoing			0		5/1/22	5/1/27
County 1.1.4	Lorain County will protect the floodplains from all development through adoption of flood maps and floodplains established by FEMA, and through enforcement of floodplain regulation.		Ongoing			0		5/1/22	5/1/27
County 1.2	Lorain County will educate residents and businesses about the need for casualty insurance to cover the cost of losses due to storms, disasters, and other emergency incidents.		Ongoing			0		5/1/22	5/1/27
County 1.2.1	Lorain County will support the NFIP program.		Ongoing			0		5/1/22	5/1/27
County 1.2.2	Lorain County will maintain adoption of FEMA flood mapping.		Ongoing			0		5/1/22	5/1/27
County 1.2.3	Lorain County will advocate for property owners' utilization of adequate casualty insurance to reduce the individual cost of disaster related damages.		Ongoing			0		5/1/22	5/1/27
County 1.3	Lorain County will decrease the effects of flooding by managing storm water so that properties are not damaged by excessive runoff or storm water, especially during periods of heavy precipitation or snow melt.		Ongoing			0		5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
County 1.3.1	Lorain County will facilitate, conduct, support, and complete a countywide storm water study that results in a storm water management plan for the whole county.		Ongoing			0		5/1/22	5/1/27
County 1.3.2	Lorain County will implement a countywide storm water management action plan as finances and jurisdictional participation allows.		Ongoing			0		5/1/22	5/1/27
County 1.3.3	Lorain County will support jurisdictions in the improvement and/or replacement of worn and inadequate storm water infrastructure.		Ongoing			0		5/1/22	5/1/27
County 1.3.4	Lorain County will educate, advocate, and facilitate effective waterway clearing and cleaning to remove built-up debris and sediment and to facilitate natural runoff for storm water		Ongoing			0		5/1/22	5/1/27
County 1.4	Lorain County will restore developed floodplains to a natural habitat state where repeated flooding occurs and causes damage to property.		Ongoing			0		5/1/22	5/1/27
County 1.4.1	Lorain County will utilize grant programs to fund the acquisition of properties and the restoration of natural habitat in areas where development has taken place on at-risk property.		Ongoing			0		5/1/22	5/1/27
County 1.4.2	Lorain County will support and advocate for the establishment of vegetative buffer zones, retention ponds, dams, levees, and other structural devices to manage storm water and flood water so it does not cause property damage.		Ongoing			0		5/1/22	5/1/27
County 1.4.3	Lorain County will support, encourage, and conduct projects to repair and maintain dams, levees, and other structures that control the flow of water and limit or prevent flooding in developed areas.		Ongoing			0		5/1/22	5/1/27
County 1.5	Lorain County will investigate, support, sustain, and/or conduct acquisition and relocation projects for properties with severe and/or repetitive flood losses.		Ongoing			0		5/1/22	5/1/27
County 1.5.1	Lorain County will identify properties with severe and repeated severe losses due to flooding.		Ongoing			0		5/1/22	5/1/27

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Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
County	Lorain County will participate in Pre-Disaster Mitigation	İ	Ongoing			0	j	5/1/22	5/1/27
1.5.2	programs that facilitate and implement acquisition and							', ',	-, ,
	demolition with relocation of the occupants of such property.								
County	Lorain County will conduct acquisition, relocation, and		Ongoing			0		5/1/22	5/1/27
1.5.3	demolition projects as funding becomes available and property		0808					0, =, ==	S, _, _ :
	owners are willing to participate.								
County 1.6	Lorain County will support and install modifications and		Ongoing			0		5/1/22	5/1/27
	improvements to county roadways that decrease flooding and								
	erosion of those roadways, such as elevation of the roadway.								
County 1.7	Lorain County will use beach nourishment and vegetation to		New					5/1/22	5/1/27
	protect recreational areas and beaches from the damage caused								
	by high lake levels and coastal flooding.								
County 1.8	Lorain County will use bulkheads, structurally engineered		New					5/1/22	5/1/27
	drainage systems, revetments, regrading and terracing, and								
	seawalls to protect infrastructure and critical resources like								
	roads, bridges and utilities from damages caused by coastal								
	flooding, extremely high lake levels and other types of flooding								
GOAL 2: Lor	rain County will implement timely and effective pre-incident warning and no	otification	of danger	ous weather an	d emergen	cy incide	ents, as well as tim	ely disseminatio	n of updated
	during an incident.								
County 2.1	Lorain County will install and sustain a countywide warning and		Ongoing			0		5/1/22	5/1/27
	notification system that utilizes digital methods and traditional								
	electronics to notify residents and workers of impending								
	inclement weather and immediate dangers by as many means as								
	is possible.								
County 2.2	Lorain County will identify those areas most prone to flash		Ongoing			0		5/1/22	5/1/27
	flooding, and will support development of data that links								
	weather events to flooding outcomes using GIS technology,								
	floodplain mapping, and other technology; the County will work								
	to notify those affected populations in a rapid and effective								
	manner when necessary.								
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GOAL 3: Lorain County will identify and utilize protective facilities that enable residents and others to take shelter from severe weather, including storms that include rotational or straight-line winds, and other life-threatening conditions such as hail, heavy precipitation, and dust.

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
	Lorain County will identify the need for and facilitate the construction of safe rooms for residents and workers who live or work in structures that lack basements or other structural protection during tornadoes or high wind incidents.		Ongoing		Jource	0		5/1/22	5/1/27
County 3.2	Lorain County will facilitate the development and equipping of shelters, comfort stations, and service centers to be used before, during, and after disasters to help the people of Lorain County recover rapidly and effectively from disaster losses.		Ongoing			0		5/1/22	5/1/27
County 3.2.1	Lorain County will help residents have access to information about the location of shelters, comfort stations and service centers as part of preparedness for disasters.		Ongoing			0		5/1/22	5/1/27
County 3.2.2	Lorain County will support volunteers and organizations to be utilized during disasters to provide, supplement, sustain, or expand sheltering and gathering services available to victims.		Ongoing			0		5/1/22	5/1/27
GOAL 4: Lor	rain County will facilitate, support, and at times conduct public awareness ca	ampaigns	about disa	ster preparedr	ess, safety	, respon	se, and recovery	to mitigate losse	s and
County 4.1	Lorain County will develop and make available to residents and others information regarding the dangerous weather and other emergent incidents that are typical to occur in the county, and will identify the actions and counter-measures that are effective in safely enduring those incidents.		Ongoing			0		5/1/22	5/1/27
County 4.2	Lorain County will develop and make available to residents information regarding response and safety during disasters uncommon to Lorain County, such as earthquakes and landslides.		Ongoing			0		5/1/22	5/1/27
	Lorain County will harden utility service and supply to residents and busines	ses, espe	cially durin	ng extreme hea	t or cold tha	t intens	ifies dependency ι	ipon utility servi	ces.
County 5.1	Lorain County will work to advocate for underground electrical service lines across the county.		Ongoing			0		5/1/22	5/1/27
County 5.2	Lorain County will advocate for capital improvements to the electrical distribution systems to harden electrical service across the county.		Ongoing			0		5/1/22	5/1/27
County 5.3	Lorain County will advocate for improved natural and propane gas availability and distribution to residents and businesses during times of excessive need.		Ongoing			0		5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
County 5.4	Lorain County will advocate for improved water intake and availability for residents, including sustainment of redundancy in distribution and supply, for times of extreme weather conditions or needs.		Ongoing			0		5/1/22	5/1/27
County 5.5	Lorain County will identify and establish redundant emergency sources for all utility services and supplies during heavy use and disaster circumstances.		Ongoing			0		5/1/22	5/1/27
GOAL 6: Lor	ain County will improve communications between all first responders and	first recei	vers durin	g disasters and	emergencie	es.			
-	Lorain County will support two-way radio upgrades and improvements by individual jurisdictions.		Ongoing			0		5/1/22	5/1/27
County 6.2	Lorain County will advocate and facilitate interoperability of communication systems between jurisdictions, disciplines, and departments.		Ongoing			0		5/1/22	5/1/27
	Lorain County will coordinate and support interoperability in the 911 centers and EOC facilities across the county.		Ongoing			0		5/1/22	5/1/27
GOAL 7: LO	RAIN COUNTY WILL SUSTAIN MITIGATION EFFORTS								
County 7.1	Lorain County will serve as the primary monitor of strategies across the county in order to facilitate and encourage accomplishment of the identified strategies in this plan.		Ongoing			0		5/1/22	5/1/27
GOAL 8: LO	RAIN COUNTY WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REC	DUCE DAN	AGES TO	CRITICAL SYST	EMS.	•			
County 8.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		New	Structurally Engineered	Local; HMA; Other	0	County Commissioners	5/1/22	5/1/27
	Ensure that high hazard and classified dams have appropriate emergency plans that identify inundation areas and facilitate emergency actions in the event of a failure.		New	Property Protection	Local	0	EMA Director	5/1/22	5/1/27
County 8.3	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		New	Structurally Engineered	Local; HMA; Other	0	County Commissioners	5/1/22	5/1/27
County 8.4	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		New	Structurally Engineered	Local; HMA; Other	0	County Engineer	5/1/22	5/1/27

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Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
County 8.5	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures.		New	Property Protection	Local; HMA; Other	0	County Engineer	5/1/22	5/1/27
County 8.6	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		New	Structurally Engineered	Local; HMA; Other	0	County Commissioners	5/1/22	5/1/27
AMHERST									
GOAL 1: Am	therst will reduce the negative effects of flooding on the residents and prop	erties in		1	1		1		
Amherst 1.1	Amherst will maintain and support land use planning efforts to lessen the impact of disaster upon the community.		Ongoing			0		5/1/22	5/1/27
Amherst 1.1.1	Amherst will support and enhance residential building codes.		Ongoing			0		5/1/22	5/1/27
Amherst 1.1.2	Amherst will support and enhance floodplain regulation and participation in NFIP flood insurance programs.		Ongoing			0		5/1/22	5/1/27
Amherst 1.2	Amherst will support land conservation and preservation of natural wetlands as a means to prevent development in areas that are prone to flooding.		Ongoing			0		5/1/22	5/1/27
Amherst 1.3	Amherst will research and assess the effects of upstream and downstream development upon the city as well as the impact of city development on adjacent jurisdictions.		Ongoing			0		5/1/22	5/1/27
Amherst 1.4	Amherst will work with the Ohio Turnpike Commission and the State of Ohio to utilize the Turnpike Mitigation Program to resolve issues with storm water runoff caused by roadway system development near the city.		Ongoing			0		5/1/22	5/1/27
Amherst 1.5	Amherst will consider acquisition, demolition, and relocation projects to eliminate flood losses where property owners are willing and funds exist to complete such projects.		Ongoing			0		5/1/22	5/1/27
	herst will improve and expand its public warning and notification systems	for the pu	rpose of p	reventing casua	alties and da	mages	by natural disaster	·s.	
Amherst 2.1	Amherst will work with and implement a reverse calling system in collaboration with the Lorain County EMA.		Ongoing			0		5/1/22	5/1/27
Amherst 2.2	Amherst will use and improve warning and notification systems that utilize local cable television, websites, and other electronic means of mass communication.		Ongoing			0		5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
GOAL 3: Am	nherst will enhance and improve communications between responders and	others to	effectivel	y communicate	before, du	ing, and	d after incidents.	•	•
Amherst 3.1	Amherst will support and implement the digital MARCS radio system P-25 standards among first responders and other departments as appropriate.		Ongoing			0		5/1/22	5/1/27
Amherst 3.2	Amherst will work to complete mapping and CAD interface software in city departments to aid in management of storm water and other utilities during storms.		Ongoing			0		5/1/22	5/1/27
GOAL 4: Am	nherst will conduct a public information campaign directed at property own	ers to less	sen the da	mages, includin	g utility out	ages, du	ie to storms.		
Amherst 4.1	Amherst will advocate for the proper maintenance of trees on private property to lessen the damages from severe storms.		Ongoing			0		5/1/22	5/1/27
Amherst 4.2	Amherst will advocate for the proper maintenance of public property regarding tree trimming and vegetation control around and about utility lines.		Ongoing			0		5/1/22	5/1/27
GOAL 5: Am	nherst will decrease utility outages during disasters.								
Amherst 5.1	Amherst will harden the power services to critical facilities by acquiring and installing alternate power sources at critical and key facilities.		Ongoing			0		5/1/22	5/1/27
GOAL 6: AN	MHERST WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DA	AMAGES	TO CRITIC	AL SYSTEMS.			•	•	
Amherst 6.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Amherst 6.2	Ensure that high hazard and classified dams have appropriate emergency plans that identify inundation areas and facilitate emergency actions in the event of a failure.		New	Property Protection	Local	0	Mayor	5/1/22	5/1/27
Amherst 6.3	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Amherst 6.4	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Amherst 6.5	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures.		New	Property Protection	Local; HMA; Other	0	Mayor	5/1/22	5/1/27

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	Elia Date
Amherst	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
6.6	distribution systems.			Engineered	нма;				
					Other				
AVON									
	on will reduce the negative effects of flooding on its residents and propertie	es.	I	1	1		I	- / / / / / / / / / / / / / / / / / / /	- / / / / -
Avon 1.1	Avon will advocate and educate officials and residents about the		Ongoing			0		5/1/22	5/1/27
	need to develop countywide storm water management planning								
	and regulation.								
Avon 1.1.1	Avon will participate in studies and analysis of storm water in		Ongoing			0		5/1/22	5/1/27
	Lorain County.								
Avon 1.1.2	Avon will support the development of retention ponds,		Ongoing			0		5/1/22	5/1/27
	detention structures, and vegetative buffers to lessen flooding in								
	downstream areas.								
Avon 1.1.3	Avon will establish and support economic development		Ongoing			0		5/1/22	5/1/27
	standards that utilize current building codes, zoning standards								
	and other land use planning regulations that take into								
	consideration the consequences of development on storm water								
	and flooding effects.								
Avon 1.1.4	Avon will advocate for the proper maintenance of streams,		Ongoing			0		5/1/22	5/1/27
	ditches, and rivers to reduce debris and vegetation that causes								
	water to back up and flood areas inside the city and upstream								
	from the city.								
Avon 1.1.5	Avon will advocate for property owners in floodplains to carry		Ongoing			0		5/1/22	5/1/27
	flood insurance as a way to protect and mitigate flood losses.								-, ,
Avon 1.1.6	Avon will adopt and support current FEMA floodplain mapping		Ongoing			0		5/1/22	5/1/27
	by federal, state, and local agencies.							' '	, ,
Avon 1.1.7	Avon will identify, establish, and maintain erosion control		Ongoing			0		5/1/22	5/1/27
	measures along streams, ditches and rivers, as well as along the		38			-		-, ,	-, ,=-
	shoreline of Lake Erie.								
Avon 1.2	Avon will support and implement the proper maintenance of		Ongoing			0		5/1/22	5/1/27
	storm sewers and water lines to minimize flooding and maximize								-, -, - .
	the ability for the city to manage storm runoff.								
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Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Avon 1.3	Avon will identify, seek funding for, and complete projects that acquire, relocate, and demolish repetitive flood loss structures.		Ongoing			0		5/1/22	5/1/27
Avon 1.4	Avon will create retention ponds, vegetative buffer zones, natural habitats, and barriers where flooding waterways cause repeated damages to properties that cannot feasibly be relocated or otherwise protected.		Ongoing			0		5/1/22	5/1/27
GOAL 2: The	e City of Avon will support improvements to notification and warning system	ns.							
Avon 2.1	Avon will support and participate in the development of warning and notification systems that include digital methods of contact including text messaging, emails, as well as outdoor sirens to warn residents and workers of immediate dangers and inclement weather conditions.		Ongoing			0		5/1/22	5/1/27
GOAL 3: Av	on will improve storm shelter options for residents of the city.								
Avon 3.1	Avon will identify, support, and/or construct safe rooms for residents who live in multi-family housing developments and mobile homes without shelters for tornadoes and other severe wind incidents.		Ongoing			0		5/1/22	5/1/27
GOAL 4: Av	on will improve public awareness and education outreach for its residents r	egarding	warning,	notification, and	l informatio	n sharin	ıg.		
	Avon will conduct and promote educational programs for children and families regarding flood safety, fire safety and prevention, and weather awareness and safety during storms and disasters.		Ongoing			0		5/1/22	5/1/27
Avon 4.2	Avon will create information to be posted electronically for resident and worker safety during and after an earthquake.		Ongoing			0		5/1/22	5/1/27
Avon 4.3	Avon will educate the public about heat and cold emergencies and how to be safe during those times as a way to minimize the emergency needs of the city during temperature extremes, and to minimize how significantly safety forces are overwhelmed during those times.		Ongoing			0		5/1/22	5/1/27
GOAL 5: Av	on will improve utility services' reliability during storms.								
Avon 5.1	Avon will work with utility providers to improve and harden utility services by burying utility lines in new and renovated residential areas, and by replacing old worn supply lines in older neighborhoods.		Ongoing			0		5/1/22	5/1/27

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Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action				/,,,,,,	Source	Cost			
GOAL 6: AV	ON WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMA	AGES TO	CRITICALS	YSTEMS.		_			
Avon 6.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
Avon 6.2	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
Avon 6.3	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
Avon 6.4	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.				Other				
Avon 6.5	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
	water management issues and identify vulnerable populations and				Other				
	structures.								
Avon 6.6	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	distribution systems.			Engineered	нма;				
					Other				
AVON LAKE									
GOAL 1: The	e City of Avon Lake will build community-wide resiliency by minimizing the r	negative e	ffects of a	ll natural disast	ers on the c	ity's pro	perty and resider	ts.	
Avon Lake	The City of Avon Lake will sustain awareness and advocacy of		Ongoing			0		5/1/22	5/1/27
1.1	good regular maintenance procedures such as ditch bank								
	maintenance, retention basin maintenance, upkeep and								
	trimming of trees on properties, and clearing of excessive								
	vegetation from streams and waterways.								
Avon Lake	The City of Avon Lake will work with conservancy and soil		Ongoing			0		5/1/22	5/1/27
1.2	conservation groups to develop and implement practices to								
	conserve topsoil, prevent erosion, and maintain natural habitats								
	for the purpose of reducing flood and erosion risks.								
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Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action Avon Lake 1.3	The City of Avon Lake will update the existing comprehensive plan for land use within the jurisdiction, taking into account the consequences of development and the effect of existing properties and businesses, as well as the consequences on the communities downstream.	, 	Ongoing	·	Source	Cost 0	·	5/1/22	5/1/27
Avon Lake 1.4	The City of Avon Lake will maintain and sustain building standards for construction, including contractor-vendor approval, industry stands for construction and reasonable construction materials guidance.		Ongoing			0		5/1/22	5/1/27
Avon Lake 1.5	The City of Avon Lake will follow the Ohio Basic Building Code as a reference for disaster-resistant construction standards.		Ongoing			0		5/1/22	5/1/27
Avon Lake 1.6	The City of Avon Lake will maintain land use ordinances that protect and preserve the best use and least damaging use of properties within the jurisdiction.		Ongoing			0		5/1/22	5/1/27
Avon Lake 1.7	The City of Avon Lake will sustain requirements that new development follow sustainable design in planning new structures and land uses.		Ongoing			0		5/1/22	5/1/27
GOAL 2: The	e City of Avon Lake will develop projects to lessen the damages to property	from flo	oding.			1		•	
Avon Lake 2.1	The City of Avon Lake will conduct acquisition and demolition/relocation projects to remove severe and repetitive loss structures and to prevent further losses.		Ongoing			0		5/1/22	5/1/27
Avon Lake 2.2	The City of Avon Lake will require construction of retention ponds to hold runoff water during periods of heavy precipitation. Retention ponds will be required to contain the 100-year frequency storm runoff.		Ongoing			0		5/1/22	5/1/27
Avon Lake 2.3	he City of Avon Lake will improve storm sewer systems to more adequately manage runoff water for all areas and enhance prevention /minimization of flooding in residential and commercial areas.		Ongoing			0		5/1/22	5/1/27
Avon Lake 2.3.1	The City of Avon Lake will complete efforts to revise the city's storm water master plan to include computer modeling.		Ongoing			0		5/1/22	5/1/27

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Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Avon Lake 2.3.2	The City of Avon Lake will maintain/repair retention basins and structures that hold or contain water that otherwise may flood homes and other properties.		Ongoing			0		5/1/22	5/1/27
Avon Lake 2.4	The City of Avon Lake will identify and develop elevation options for roadways, streets, and other infrastructure that is negatively affected by flooding on a regular basis.		Ongoing			0		5/1/22	5/1/27
	e City of Avon Lake will educate the community about the notification system and their property.	m that wa	rn them of	impending disa	asters and t	he actio	ns they should tak	e immediately to	protect
Avon Lake 3.1	The City of Avon Lake will maintain the current Code Red communication system that enables the city to notify residents in numerous ways of impending danger and/or inclement weather risks.		Ongoing			0		5/1/22	5/1/27
Avon Lake 3.2	The City of Avon Lake will improve the communication systems between first responders and other critical resources in the event of an emergency or disaster.		Ongoing			0		5/1/22	5/1/27
Avon Lake 3.3	The City of Avon Lake will develop partnerships with Lorain County Emergency Management Agency and others to develop information dissemination capabilities that might include 2-1-1 and other community agencies that would enhance the community's ability to communicate with all populations, including those with functional and special needs.		Ongoing			0		5/1/22	5/1/27
Avon Lake 3.4	The City of Avon Lake will identify and communicate with special populations within the jurisdiction as it relates to disasters, warning and notification, and response.		Ongoing			0		5/1/22	5/1/27
Avon Lake 3.5	The City of Avon Lake will educate the community about evacuation procedures and how to identify shelter locations, comfort stations, and service centers during disasters.		Ongoing			0		5/1/22	5/1/27
	e City of Avon Lake will establish sites to be used as shelters, comfort statio	ns, and se	ervice cent	ers during disas	sters, and w	vill strive	to equip these site	es with features	necessary to
	serve the community during storms, power outages, and other disasters.	1	0		1	Ι ο		F /4 /22	E /4 /27
4.1	The City of Avon Lake will investigate and implement means to create and provide safe rooms for residents who live in homes built on concrete slabs, and other structures that lack storm shelters used as protection in wind and other severe storms.		Ongoing			0		5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
	। e City of Avon Lake will work with utility providers to harden utility services	l and to pr	l event exc	essive outages (l nclement weather.		
	The City of Avon Lake will bury power and utility lines in new neighborhoods, homes, and businesses.		Ongoing			0		5/1/22	5/1/27
	The City of Avon Lake will replace deteriorating power, water, sewer, and other utility distribution systems.		Ongoing			0		5/1/22	5/1/27
	The City of Avon Lake will develop protective actions to prevent or lessen the likelihood of damage to water treatment and/or distribution systems during disasters and inclement weather.		Ongoing			0		5/1/22	5/1/27
Avon Lake 5.4	The City of Avon Lake will work with wireless service providers to establish dependable and resilient wireless service within the jurisdiction to improve the capability to communicate during inclement weather and disasters.		Ongoing			0		5/1/22	5/1/27
GOAL 6: The	City of Avon Lake will improve structure identification systems in the city.	•	•						
Avon Lake 6.1	Avon Lake will improve GIS mapping and addressing within the community so that first responders and service providers can more easily locate and assist victims at particular residences and businesses.		Ongoing			0		5/1/22	5/1/27
GOAL 7: The	City of Avon Lake will develop a solid waste and debris management plan	for the ci	ty to facilita	ate rapid storm	clean-up.				
Avon Lake 7.1	Avon Lake will identify and approve disposal sites for disaster debris, including segregated solid waste such as construction materials, wood and combustible waste, masonry and concrete waste, metal waste, paper and general garbage, and hazardous waste.		Ongoing			0		5/1/22	5/1/27
GOAL 8: The	City of Avon Lake will implement a redundant secondary water supply to	be used fo	or purpose	s such as firefig	hting.				
Avon Lake 8.1	Avon Lake will identify and implement a water supply plan for emergencies that supports, supplements, or serves in place of the municipal or county water supply during large fires.		Ongoing			0		5/1/22	5/1/27
8.2	The City of Avon Lake will advocate and support construction of ponds with the capability of being used as an alternative water supply that are equipped with dry hydrants.		Ongoing			0		5/1/22	5/1/27
GOAL 6: AV	ON LAKE WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE	DAMAGE	S TO CRITI	CAL SYSTEMS.					

Mitigation		I			Funding	Est.			
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	End Date
Avon Lake	Maintain, repair, upgrade, and/or replace storm sewers, wastewater	ĺ	New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
9.1	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
Avon Lake	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
9.2	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
9.3	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
9.4	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.				Other				
Avon Lake	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
9.5	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
	water management issues and identify vulnerable populations and				Other				
	structures.								
Avon Lake	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
9.6	distribution systems.			Engineered	нма;				
				[Other		ļ	ļ	
ELYRIA			_		_				
	e City of Elyria will develop, improve, and sustain effective communications	during d	1	r the purpose o	f saving live		reserving property		- / . /
Elyria 1.1	The City of Elyria will improve communication between first responders and other critical resources.		Ongoing			0		5/1/22	5/1/27
Elyria 1.2	The City of Elyria will partner with Lorain County Emergency Management and other agencies to develop or acquire communications tools such as text messages phone call systems,		Ongoing			0		5/1/22	5/1/27
	and others to notify the public of impending danger or inclement weather risks.								
Elyria 1.3	The City of Elyria will educate the community about evacuation procedures and how to identify shelters, comfort stations, and		Ongoing			0		5/1/22	5/1/27
	service centers.								
Elyria 1.4	The City of Elyria will develop expand, and/or maintain an outdoor warning siren system.		Ongoing			0		5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Elyria 1.5	The City of Elyria will identify and communicate with special populations including those with functional and special needs.		Ongoing			0		5/1/22	5/1/27
Elyria 1.6	The City of Elyria will identify and communicate with special populations including those with functional and special needs.		Ongoing			0		5/1/22	5/1/27
	e City of Elyria will engage in property and natural resources mitigation.		_						
Elyria 2.1	The City of Elyria will educate and advocate to property owners about regular maintenance practices that result in preventing excessive damage to structures during storms such as ditch bank maintenance, tree trimming and clearing excessive vegetation from streams and waterways.		Ongoing			0		5/1/22	5/1/27
Elyria 2.2	The City of Elyria will consider development of a comprehensive plan for land use within the city, taking into account the consequences of development and the effect on existing properties and businesses, as well as consequences on communities downstream.		Ongoing			0		5/1/22	5/1/27
Elyria 2.3	The City of Elyria will investigate and implement means to create and provide safe rooms for residents who live in mobile homes, homes built on concrete slabs, and other structures that lack storm shelters used as protection in wind and other severe storms.		Ongoing			0		5/1/22	5/1/27
Elyria 2.4	The City of Elyria will consider establishing land use ordinances that protect and preserve the best and least damaging property use within the city.		Ongoing			0		5/1/22	5/1/27
Elyria 2.5	The City of Elyria will consider the creation of building standards for construction, including such practices as contractor-vendor approval, acceptable industry standards for construction, and reasonable construction materials guidance.		Ongoing			0		5/1/22	5/1/27
	The City of Elyria will work with conservancy and soil conservation groups to develop and implement practices to conserve topsoil, prevent erosion and maintain natural habitats to reduce flood and erosion risks. e City of Elyria will work to mitigate flood consequences.		Ongoing			0		5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Elyria 3.1	The City of Elyria will work to improve storm sewer systems to more adequately manage runoff water for all areas thus preventing/lessening flooding in residential and/or commercial properties.		Ongoing			0		5/1/22	5/1/27
Elyria 3.2	The City of Elyria will identify and develop elevation options for roadways, streets, and other infrastructure that is negatively affected by flooding on a regular basis.		Ongoing			0		5/1/22	5/1/27
Elyria 3.3	The City of Elyria will consider construction of retention ponds to hold runoff waters during periods of heavy precipitations.		Ongoing			0		5/1/22	5/1/27
Elyria 3.4	The City of Elyria will work to maintain/repair/replace dams, dikes, and reservoirs that hold or contain waters that otherwise might flood homes and other properties.		Ongoing			0		5/1/22	5/1/27
Elyria 3.5	The City of Elyria will consider acquisition and demolition projects to remove repetitive loss structures and prevent further losses.		Ongoing			0		5/1/22	5/1/27
GOAL 4: The	e City of Elyria will protect utilities as part of the mitigation efforts.								
Elyria 4.1	The City of Elyria will work to replace aging and deteriorating power, sewer, and other utility distribution systems.		Ongoing			0		5/1/22	5/1/27
Elyria 4.2	The City of Elyria will work to develop protective actions to lessen the likelihood of damage to water treatment and/or distribution systems during disasters and inclement weather.		Ongoing			0		5/1/22	5/1/27
Elyria 4.3	The City of Elyria will work with wireless service providers to establish dependable and resilient wireless service within the city to improve the capability to communicate during inclement weather and disasters.		Ongoing			0		5/1/22	5/1/27
Elyria 4.4	The City of Elyria will work to bury power and utility lines in new neighborhoods, homes, and businesses.		Ongoing			0		5/1/22	5/1/27
GOAL 5: The	e City of Elyria will take other actions to promote disaster mitigation and les	sen dama	ages due to	storms and na	tural hazar	ds.			
	The City of Elyria will identify and implement a water supply plan for emergency purposes that supports, supplements, or serves in place of a municipal or county water supply during large fires.		Ongoing			0		5/1/22	5/1/27

Mitigation					Funding	Est.			
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	End Date
Elyria 5.2	The City of Elyria with improve GIS mapping and addressing within the community so that first responders and service providers can more easily locate and assist victims at particular residences and businesses.		Ongoing		Journe	0		5/1/22	5/1/27
Elyria 5.3	The City of Elyria will acquire backup generators for public safety facilities and shelters.		Ongoing			0		5/1/22	5/1/27
Elyria 5.4	he City of Elyria will update the list of sites to be used as shelters, comfort stations, and service centers during storms, power outages, and other disasters.		Ongoing			0		5/1/22	5/1/27
Elyria 5.5	The City of Elyria will advocate and support the construction of ponds with the capability of being used as an alternative water supply and equip these with dry hydrants.		Ongoing			0		5/1/22	5/1/27
Elyria 5.6	The City of Elyria will identify and approve disposal sites for disaster debris including segregated solid waste (construction materials, wood, combustibles, masonry, concrete, and metal), paper, general garbage and hazardous waste.		Ongoing			0		5/1/22	5/1/27
GOAL 6: ELY	RIA WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAM	AGES TO	CRITICAL	SYSTEMS.	-				
Elyria 6.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Elyria 6.2	Ensure that high hazard and classified dams have appropriate emergency plans that identify inundation areas and facilitate emergency actions in the event of a failure.		New	Property Protection	Local	0	Mayor	5/1/22	5/1/27
Elyria 6.3	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Elyria 6.4	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Elyria 6.5	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures.		New	Property Protection	Local; HMA; Other	0	Mayor	5/1/22	5/1/27

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	End Date
Elyria 6.6	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	distribution systems.			Engineered	нма;				
					Other				
GRAFTON									
	e Village of Grafton will maintain residential and commercial building codes	to include		inspection prog	gram and co		r registration for v		
Grafton 1.1	The Village of Grafton will establish and support a Fire Safety		Ongoing			0		5/1/22	5/1/27
	inspection Bureau at the fire department to enhance the								
	enforcement and application of building codes in the village.								
Grafton 1.2	The Village of Grafton will provide special rescue and technical		Ongoing			0		5/1/22	5/1/27
	training to first responders to minimize the loss of life during								
	disasters, and to facilitate the safe conduct of rescue operations								
	during incidents.								
	e Village of Grafton will harden utility service in the village so that life-sustai	ining serv	ices are n	ot interrupted d	luring storm	s and d	sasters.		
Grafton 2.1	The Village of Grafton will install upgrades and updates to the		Ongoing			0		5/1/22	5/1/27
	electrical and water supply systems.								
Grafton 2.2	The Village of Grafton will add a redundant water supply source		Ongoing			0		5/1/22	5/1/27
	to decrease dependency during disaster upon a single supply.								
Grafton 2.3	The Village of Grafton will install a replacement water tower with		Ongoing			0		5/1/22	5/1/27
	the purpose of hardening water supply to residents and								
	businesses during disasters and inclement weather conditions.								
Grafton 2.4	The Village of Grafton will remove old and deteriorated utility		Ongoing			0		5/1/22	5/1/27
	systems equipment and facilities with the purpose of decreasing								
	the likelihood of damage to property caused by these structures								
	during a disaster or severe storm.								
Grafton 2.5	The Village of Grafton will identify and implement proactive		Ongoing			0		5/1/22	5/1/27
	maintenance procedures to decrease the incidence of failure								
	during disasters and storms.								
GOAL 3: The	e Village of Grafton will improve emergency and crisis communications syst	tems and	interopera	ability.					
	Grafton will improve emergency and crisis communications		Ongoing			0		5/1/22	5/1/27
	equipment for the purpose of interoperability with Lorain								
	County and other jurisdictions during large scale and extended								
	emergencies and disasters.								
GOAL 4: The	e Village of Grafton will reassess, improve, and identify shelters, communit	v gather	ing rooms	and comfort st	ations for us	se durin	g disasters and lor	ng-term nower o	utages.

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Grafton 4.1	The Village of Grafton will evaluate and plan for appropriate acquisition and installation of safe rooms as funding becomes available for those residents who live in mobile homes, homes built on concrete slabs, or those who live in buildings that lack subsurface shelters.		Ongoing			0		5/1/22	5/1/27
Grafton 4.2			Ongoing			0		5/1/22	5/1/27
GOAL 5: The	e Village of Grafton will inform residents about disaster preparedness.		1						
Grafton 5.1	Grafton will conduct a public education campaign to educate the residents about disaster preparedness and response, including natural and transportation disaster risks.		Ongoing			0		5/1/22	5/1/27
GOAL 6: The	e Village of Grafton will reduce the impact of flooding.	8	•	•	•	•	-		
Grafton 6.1	The Village of Grafton will protect properties from flooding through acquisition, demolition, and relocation projects to eliminate flood losses where property owners are willing and funds exist to complete such projects.		Ongoing			0		5/1/22	5/1/27
GOAL 6: GR	! AFTON WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DA	AMAGES	TO CRITIC	AL SYSTEMS.			<u> </u>	<u> </u>	
Grafton 7.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Grafton 7.2	Ensure that high hazard and classified dams have appropriate emergency plans that identify inundation areas and facilitate emergency actions in the event of a failure.		New	Property Protection	Local	0	Mayor	5/1/22	5/1/27
Grafton 7.3	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Grafton 7.4	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Grafton 7.5	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures.		New	Property Protection	Local; HMA; Other	0	Mayor	5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Grafton 7.6	Maintain, repair, upgrade, and/or replace water treatment and distribution systems.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
KIPTON									
	e Village of Kipton will improve notification and warning systems for residen	nts of Kipt			1	r	T	T	
Kipton 1.1	Kipton will support and advocate for use of a countywide emergency notification system that utilizes various forms of technology to notify residents of impending danger or inclement weather.		Ongoing			0		5/1/22	5/1/27
GOAL 2: The	e Village of Kipton will minimize the losses from flooding.		.1.	•			•		
Kipton 2.1	Kipton will identify repetitive or severe loss structures for acquisition and demolition and relocation for the occupants and by applying for and using funds to complete these projects.		Ongoing			0		5/1/22	5/1/27
Kipton 2.2	The Village of Kipton will support and participate in a countywide storm water assessment and implementation of a countywide plan to manage storm water to minimize flooding across the county.		Ongoing			0		5/1/22	5/1/27
GOAL 3: The	e Village of Kipton will support improvement to individual sheltering options	during s	evere stor	ms in the village	е.		•	•	
Kipton 3.1	Kipton will work to establish safe rooms for households that lack basements or other appropriate shelter during severe storms such as tornadoes.		Ongoing			0		5/1/22	5/1/27
GOAL 4: KIF	PTON WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAN	AGES TO	CRITICAL	SYSTEMS.	-	•	-	-	
Kipton 4.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater management systems, and associated structures, such as curbs and stormwater basins.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Kipton 4.2	Ensure that high hazard and classified dams have appropriate emergency plans that identify inundation areas and facilitate emergency actions in the event of a failure.		New	Property Protection	Local	0	Mayor	5/1/22	5/1/27
Kipton 4.3	Maintain, repair, and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure.		New	Structurally Engineered	Local; HMA; Other	0	Mayor	5/1/22	5/1/27

			I	Funding	Fct	1		
Details	Priority	Status	Action Type	_		Project Lead	Start Date	End Date
Where jurisdictions allow, improve and repair roadways, bridges, culverts,	<u> </u> 	New	Structurally		0	Mavor	5/1/22	5/1/27
			· ·				, ,	-, ,
and heavy precipitation.				Other				
Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
water management issues and identify vulnerable populations and				Other				
structures.								
Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
distribution systems.			Engineered	нма;				
				Other				
	ffects of r			operties loc		the village.	T	
		Ongoing			0		5/1/22	5/1/27
		Ongoing			0		5/1/22	5/1/27
, , , , , , , , , , , , , , , , , , , ,								
construction, renovation, and repair.								
range will support and maintain warning and notification systems.	1	1				1		
, ,		Ongoing			0		5/1/22	5/1/27
that communicate weather alerts in a timely fashion.								
	tems and		ability.			1	1	
,		Ongoing			0		5/1/22	5/1/27
Lagrange will identify publicly owned locations in the village		Ongoing			0		5/1/22	5/1/27
that flood repeatedly during or after heavy precipitation or								
runoff, and analyze the effects of that flooding on the								
community.								
Lagrange will develop corrective actions to alleviate flooding		Ongoing			0		5/1/22	5/1/27
that prevents access to specific properties during times of heavy								
rain or runoff.								
	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation. Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures. Maintain, repair, upgrade, and/or replace water treatment and distribution systems. Prange will support and maintain land use planning efforts that lessen the example will continue its contractor registration process to ensure high quality services are provided after storms have damaged properties. Lagrange will maintain residential and commercial building codes, zoning regulations, flood plain regulations, and other standards intended to protect and preserve high quality construction, renovation, and repair. Prange will support and maintain warning and notification systems. Lagrange will maintain a notification system that advise residents and workers of dangerous or critical situations, and that communicate weather alerts in a timely fashion. Pullage of Grafton will improve emergency and crisis communications systems and sustain a storm water improvement project funded through user fees charged to property owners under an assessment program. Lagrange will identify publicly owned locations in the village that flood repeatedly during or after heavy precipitation or runoff, and analyze the effects of that flooding on the community. Lagrange will develop corrective actions to alleviate flooding that prevents access to specific properties during times of heavy	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation. Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures. Maintain, repair, upgrade, and/or replace water treatment and distribution systems. **range will support and maintain land use planning efforts that lessen the effects of resure high quality services are provided after storms have damaged properties. Lagrange will maintain residential and commercial building codes, zoning regulations, flood plain regulations, and other standards intended to protect and preserve high quality construction, renovation, and repair. **range will support and maintain warning and notification systems. Lagrange will maintain a notification system that advise residents and workers of dangerous or critical situations, and that communicate weather alerts in a timely fashion. **Village of Grafton will improve emergency and crisis communications systems and Lagrange will complete and sustain a storm water improvement project funded through user fees charged to property owners under an assessment program. Lagrange will identify publicly owned locations in the village that flood repeatedly during or after heavy precipitation or runoff, and analyze the effects of that flooding on the community. Lagrange will develop corrective actions to alleviate flooding that prevents access to specific properties during times of heavy	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation. Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures. Maintain, repair, upgrade, and/or replace water treatment and distribution systems. **range will support and maintain land use planning efforts that lessen the effects of natural distribution systems. **range will continue its contractor registration process to ensure high quality services are provided after storms have damaged properties. Lagrange will maintain residential and commercial building codes, zoning regulations, flood plain regulations, and other standards intended to protect and preserve high quality construction, renovation, and repair. **range will support and maintain warning and notification systems. Lagrange will maintain a notification system that advise residents and workers of dangerous or critical situations, and that communicate weather alerts in a timely fashion. **Village of Grafton will improve emergency and crisis communications systems and interoper: Lagrange will complete and sustain a storm water improvement project funded through user fees charged to property owners under an assessment program. Lagrange will identify publicly owned locations in the village that flood repeatedly during or after heavy precipitation or runoff, and analyze the effects of that flooding on the community. Lagrange will develop corrective actions to alleviate flooding that prevents access to specific properties during times of heavy	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation. 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Lagrange will complete and sustain a storm water improvement project funded through user fees charged to property owners under an assessment program. Lagrange will identify publicly owned locations in the village that flood repeatedly during or after heavy precipitation or	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and theavy precipitation. Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures. Maintain, repair, upgrade, and/or replace water treatment and distribution systems. Mew Structurally Engineered HMA; Other Other Structurally Engineered Protection HMA; Other Other Structures. Maintain, repair, upgrade, and/or replace water treatment and distribution systems. Mew Structurally Engineered HMA; Other Other Structurally Engineered Protection HMA; Other Other Structurally Engineered	Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation. Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and structures. New Property Local; Other S/1/22 HAMA; Other Protection HAMA; Other Structurally Local; Engineered HAMA; Other Solvential Structurally Local; HAMA; Other Solvential Structurally Local; Engineered HAMA; Other Solvential Structurally Local; HAMA; Other Solvential Structurally Local; Engineered HAMA; Other Solvential Structurally Local; HAMA; Other Solvential Structurally Local;

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action		ļ			Source	Cost	ļ -		- / . /
LaGrange	Lagrange will participate in acquisition, demolition, and		Ongoing			0		5/1/22	5/1/27
3.4	relocation projects for properties that have severe or repetitive								
	flood loss and property owners are willing to take action.								
	range will identify service facilities for use by residents during storms and	disasters		Τ	1	1	T	T	
LaGrange	Lagrange will establish an approved overnight shelter within the		Ongoing			0		5/1/22	5/1/27
	village limits to be used during evacuations, extended power								
	outages, and other emergency situations.								
LaGrange	Lagrange will establish a community comfort station to be used		Ongoing			0		5/1/22	5/1/27
4.2	during daytime emergencies for the purpose of feeding and								
	hydration, communication, supply distribution, and social								
	gathering.								
GOAL 5: LAG	GRANGE WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE D	DAMAGES	TO CRITI	CAL SYSTEMS.		L	l	l	
	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.1	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
LaGrange	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
5.2	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
LaGrange	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.3	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
LaGrange	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.4	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.				Other				
LaGrange	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
5.5	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
	water management issues and identify vulnerable populations and				Other				
	structures.								
LaGrange	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.6	distribution systems.			Engineered	нма;				
					Other				
LORAIN			•						
GOAL 1: The	e City of Lorain will improve warning and notification systems that alert res	idents of i	impending	dangers or incl	lement wea	ther.			

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Lorain 1.1	Lorain will support and participate in a countywide warning and notification system that includes digital notification, social media, and reverse telephone notifications to warn residents about immediate dangers and inclement weather.		Ongoing			0		5/1/22	5/1/27
Lorain 1.2	Lorain will assess the need for additional outdoor warning sirens, and will install additional devices in areas where current coverage is minimal or insufficient.		Ongoing			0		5/1/22	5/1/27
GOAL 2: The	e City of Lorain will identify, establish, and utilize protective measures to sh	elter resi	dents durin	g dangerous w	eather or o	ther incl	ement situations.		
Lorain 2.1	Lorain will support the Lorain County EMA and American Red Cross in the identification of, support for and use of shelters during evacuations and extreme weather conditions, power outages, or other disasters.		Ongoing			0		5/1/22	5/1/27
Lorain 2.2	Lorain will work with Lorain County to identify and establish comfort stations and service centers to be used to serve residents quickly and efficiently during disasters.		Ongoing			0		5/1/22	5/1/27
GOAL 3: Lor	rain will restore natural habitat in areas prone to flooding, or those that have	e been d	eveloped a	nd would best l	be returned	to natu	ral habitat due to f	flood risk.	
	Lorain will work with conservancy and soil conservation groups to develop and implement practices to conserve topsoil, prevent erosion, and to maintain natural habitats for the purpose of reducing flood and erosion/beachfront erosion during weather incidents.		Ongoing			0		5/1/22	5/1/27
GOAL 4: The	e City of Lorain will enforce, support, and enhance building codes, zoning re	gulations	, and other	· land use regul	ation where	disaste	r losses can be pr	evented by such	actions.
Lorain 4.1	Lorain will improve and sustain a contractor registration process for work done inside the city with the purpose of preventing inadequate and improper construction practices during disaster response and recovery, and as a way to ensure compliance with current land use and building regulations.		Ongoing			0		5/1/22	5/1/27
Lorain 4.2	Lorain will develop a comprehensive land use plan for the city, including sustainment of regulations that lessen the negative effects of disasters.		Ongoing			0		5/1/22	5/1/27

GOAL 5: The City of Lorain will maintain, improve, and sustain adequate power lines, utility lines, and other infrastructure to prevent extreme losses during inclement weather and disasters.

Mitigation	Details	Priority	Ctatus	Action Type	Funding	Est.	Droject Load	Start Data	End Data
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	End Date
Lorain 5.1	Lorain will utilize fees and assessments to property owners to		Ongoing			0		5/1/22	5/1/27
	fund the improvements to infrastructure for the purpose of								
	constructing more resilient utilities.								
Lorain 5.2	Lorain will bury utilities in new neighborhoods or commercial		Ongoing			0		5/1/22	5/1/27
	developments.								
GOAL 6: The	e City of Lorain will improve location identification and communication for e	mergenc	y responde	ers.					
Lorain 6.1	Lorain will improve GIS mapping and addressing in the city to facilitate		Ongoing			0		5/1/22	5/1/27
	rapid location and assistance to residents and businesses by public safety								
	and public works during disasters, thus decreasing the loss and casualty								
	occurrences during those incidents.								
	e City of Lorain will improve services to special populations during disasters	to minim	ize loss of	life and injuries	•		,	_	
Lorain 7.1	Lorain will work to identify, analyze, and establish critical		Ongoing			0		5/1/22	5/1/27
	services for the children of the city who are economically								
	disadvantaged or considered in need of assistance for safety and								
	security needs.								
GOAL 8: LO	RAIN WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAN	AGES TO	CRITICAL	SYSTEMS.		•	•		
Lorain 8.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
Lorain 8.2	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
Lorain 8.3	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
Lorain 8.4	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.				Other				
Lorain 8.5	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
	water management issues and identify vulnerable populations and				Other				
	structures.								
Lorain 8.6	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	distribution systems.			Engineered	нма;				
					Other				

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
NORTH RID									
	e City of North Ridgeville will minimize the negative effects of flooding on its	s resident		erties.	I			T	
N. Ridgeville 11	North Ridgeville will educate and advocate to property owners good regular maintenance practices that result in preventing excessive damages to structures during storms, such as ditch bank maintenance, trimming trees, and clearing excessive vegetation from streams and waterways.		Ongoing			0		5/1/22	5/1/27
N Ridgeville 1.2	North Ridgeville will support the construction of retention ponds to hold runoff waters during periods of heavy precipitation.		Ongoing			0		5/1/22	5/1/27
N Ridgeville 1.3	North Ridgeville will improve storm sewer systems to more adequately manage runoff water for all areas and thus prevent/lessen flooding in residential and/or commercial properties.		Ongoing			0		5/1/22	5/1/27
N Ridgeville 1.4	North Ridgeville will construct new storm sewers to adequately handle runoff and drainage loads where development, wear and tear, or lack of structures makes flooding likely.		Ongoing			0		5/1/22	5/1/27
N Ridgeville 1.5	North Ridgeville will reduce the impact of natural hazard by preserving or restoring natural areas and their mitigation functions through erosion and sediment control of waterways.		Ongoing			0		5/1/22	5/1/27
N Ridgeville 1.6	North Ridgeville will work with other conservancy and soil conservation groups to develop and implement practices to conserve topsoil, prevent erosion, and maintain natural habitats for the purpose of reducing flood and erosion risks.		Ongoing			0		5/1/22	5/1/27
N Ridgeville 1.7	North Ridgeville will participate in acquisition, demolition, and relocation projects for properties that have severe or repetitive losses and property owners are willing to participate.		Ongoing			0		5/1/22	5/1/27

GOAL 2: North Ridgeville will improve warning and notification systems and will improve general communication with residents during disasters to more effectively recover from disasters.

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action		1110110	Julia	Action Type	Source	Cost	i roject Lead		
N	North Ridgeville will investigate and identify communication		Ongoing			0		5/1/22	5/1/27
Ridgeville	tools such as text messages, phone call systems, and others,								
2.1	perhaps as part of a countywide system, to effectively notify the								
	community of impending danger and/or inclement weather								
	risks.								
GOAL 3: No	orth Ridgeville will conduct preparedness outreach and education programs	for resid	ents of the	city.					
N	North Ridgeville will educate the community about evacuation		Ongoing			0		5/1/22	5/1/27
Ridgeville	procedures and how to identify shelter locations, comfort								
3.1	stations, and service centers during disasters.								
GOAL 4: Th	e City of North Ridgeville will identify, establish, and utilize protective meas	ures to sh	nelter resid	lents during da	ngerous we	ather o	other inclement s	ituations.	
N	North Ridgeville will support the Lorain County EMA and		Ongoing			0		5/1/22	5/1/27
Ridgeville	American Red Cross in the identification of, support for and use								
4.1	of shelters during evacuations and extreme weather conditions,								
	power outages, or other disasters.								
N	North Ridgeville will work with Lorain County to identify and		Ongoing			0		5/1/22	5/1/27
Ridgeville	establish comfort stations and service centers to be used to serve								
4.2	residents quickly and efficiently during disasters.								
GOAL 5: NO	DRTH RIDGEVILLE WILL PROTECT AND IMPROVE INFRASTRUCTURE TO R	EDUCE D	AMAGES :	O CRITICAL SY	STEMS.	1			
N.	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Ridgeville	management systems, and associated structures, such as curbs and			Engineered	нма;				
5.1	stormwater basins.				Other				
N.	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
Ridgeville	plans that identify inundation areas and facilitate emergency actions in			Protection					
5.2	the event of a failure.								
N.	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Ridgeville	structurally compromised or place the public in danger during a structural			Engineered	нма;				
5.3	failure.				Other				
N.	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Ridgeville	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
5.4	and heavy precipitation.				Other				
N.	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
Ridgeville	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
5.5	water management issues and identify vulnerable populations and				Other				
	structures.								

Mitigation					Funding	Est.			
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	End Date
N.	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Ridgeville	distribution systems.			Engineered	нма;				
5.6	·				Other				
OBERLIN		,	•	•		•		•	
GOAL 1: The	e City of Oberlin will reduce the negative effects of flooding on city residents	s and pro	perties.						
Oberlin 1.1	Oberlin will support progressive storm water management by facilitating		Ongoing			0		5/1/22	5/1/27
	widespread development of countywide storm water planning to help								
	prevent downstream flooding.								
Oberlin 1.2	Oberlin will strive to install vegetative buffer zones and natural		Ongoing			0		5/1/22	5/1/27
	habitat restoration in areas that flood on a repeated basis,								
	especially along Plum Creek, and will work with property owners								
	to facilitate those conservation measures.								
Oberlin 1.3	Oberlin will support residential and commercial building code		Ongoing			0		5/1/22	5/1/27
	enforcement, floodplain management, and zoning regulations in								
	an attempt to minimize flooding and property loss due to								
	flooding.								
Oberlin 1.4	Oberlin will use, when funding is available, acquisition,		Ongoing			0		5/1/22	5/1/27
	relocation, and demolition projects for structures that incur							-, -,	-7 -7 -1
	repeated flooding and/or are located in a high-risk flood zone.								
GOAL 2: Oh	erlin will work to harden utilities within the city to foster rapid recovery fro	m disaste	erc						
	Oberlin will continue to search for a means to provide alternate	lii disaste	Ongoing			0		5/1/22	5/1/27
	power supplies for all critical facilities within the city to insure							', '	-, ,
	the continuation of life-saving services during severe weather,								
	disasters, and long periods of power outages and other storms.								
GOAL 3: Oh	 erlin will improve sheltering and protective measures available to resident	s during (severe sto	l rms			1		
	Oberlin will support a countywide program for identification of safe rooms	Juding	Ongoing	1113.		0		5/1/22	5/1/27
	for residents and visitors in wind-resistant shelters.		0006					3, 1, 22	J, ±, 2,
GOAL 4: Ob	erlin will improve emergency communications within the city and with all e	l ntities in l	orain Cou	ı ntv to lessen the	e loss of life	and pro	l perty during disas	ters.	
	Oberlin will participate in a countywide interoperable		Ongoing	10, 10, 1000011 (11)		0	,	5/1/22	5/1/27
	communications system that includes tactical frequencies for							' '	, ,
	public safety as well as city administration and other important								
	service providers.								
]				

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action	Details	1110110	Julius	Action Type	Source	Cost	l Troject Lead	Start Bate	Liid Date
Oberlin 4.2	Oberlin will support the maintenance of its current notification		Ongoing			0		5/1/22	5/1/27
	system, and will consider support of a countywide emergency								
	notification system that includes text messaging, mobile apps,								
	emails, and other digital and social media.								
	erlin will identify and plan for emergency operations with all populations in	order to	protect the	life and safety	residents, v	isitors,	and workers durin	ng natural disast	ers.
Oberlin 5.1	Oberlin will strive to clarify and coordinate emergency efforts		Ongoing			0		5/1/22	5/1/27
	with special populations and groups so that those who reside in								
	multi-family housing are adequately served during emergencies								
	and disasters.								
GOAL 6: OB	ERLIN WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DA	MAGES T	O CRITICA	L SYSTEMS.	•		•		
Oberlin 6.1	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	management systems, and associated structures, such as curbs and			Engineered	HMA;				
	stormwater basins.				Other				
Oberlin 6.2	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
Oberlin 6.3	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	structurally compromised or place the public in danger during a structural			Engineered	HMA;				
	failure.				Other				
Oberlin 6.4	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	and other transportation infrastructure that is damaged by rapid runoff			Engineered	HMA;				
	and heavy precipitation.				Other				
Oberlin 6.5	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
	sewer, inundation, and others) to determine the root cause of flooding and			Protection	HMA;				
	water management issues and identify vulnerable populations and				Other				
	structures.								
Oberlin 6.6	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	distribution systems.			Engineered	HMA;				
					Other				
ROCHESTER									
	e Village of Rochester will improve rapid warning and notification systems.	7		1		1	T	<u> </u>	
	Rochester will support and a countywide emergency notification		Ongoing			0		5/1/22	5/1/27
1.1	system that utilizes various forms of technology to notify								
	residents of impending danger or inclement weather.								
GOAL 2: The	e Village of Rochester will decrease the impact of flooding on village reside	nts.							

acquisition and demolition and relocation for the occupants and by applying for and using funds to complete these projects. GOAl 3: The Village of Rochester will participate in a countywide flood mitigation studies. Rochester Rochester will participate in a countywide plan to manage storm water to minimize flooding across the county. GOAL **ROCHESTER WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS. Rochester Maintain, repair, upgrade, and/or replace storm sewers, wastewater anagement systems, and associated structures, such as curbs and stormwater basins. Rochester Ensure that high hazard and classified dams have appropriate emergency at 2 county. Rochester Maintain, repair, upgrade, and for leplace dams and upground reservoirs that are the event of a failure. Rochester Maintain, repair, and replace dams and upground reservoirs that are the event of a failure. Rochester Maintain, repair, and replace dams and upground reservoirs that are the event of a failure. Rochester Where jurisdictions allow, improve and repair roadways, bridges, culverts, and other transportation infrastructure that is damaged by rapid runoff and heavy precipitation. Rochester Conduct appropriate studies (hydrology and hydraulics, storm water and water management suses and identify unlerable populations and structurally sewer, inundation, and others) to determine the root cause of flooding and water management suses and identify unlerable populations and structurally and repair, upgrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, upgrade, and/or replace water treatment and distribution systems.	Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
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GOAL 3: The Village of Rochester Will support countywide flood mitigation studies. Rochester Rochester Will participate in a countywide storm water 3.1 assessment and implementation of a countywide plan to manage storm water to minimize flooding across the county. GOAL 4: ROCHESTER WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE DAMAGES TO CRITICAL SYSTEMS. Rochester Maintain, repair, upgrade, and/or replace storm sewers, wastewater 4.1 management systems, and associated structures, such as curbs and stormwater basins. Rochester Insure that high hazard and classified dams have appropriate emergency actions in the event of a failure. Rochester Rochester Insure William and replace dams and upground reservoirs that are structurally compromised or place the public in danger during a structural failure. Rochester Rochester Conduct appropriates tudies (hydrology and hydraulics, storm water and and heavy precipitation. Rochester Conduct appropriate studies (hydrology and hydraulics, storm water and structures). Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution propriate studies (hydrology and hydraulics, storm water and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and distribution systems. Rochester Maintain, repair, ungrade, and/or replace water treatment and develop countyw	2.1	acquisition and demolition and relocation for the occupants and								
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A.2 plans that identify inundation areas and facilitate emergency actions in the event of a failure. Protection Pr		stormwater basins.				Other				
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structures. Rochester A.6 Maintain, repair, upgrade, and/or replace water treatment and distribution systems. SHEFFIELD VILLAGE GOAL 1: Sheffield will advocate and educate officials and residents about the need to develop countywide storm water management planning and regulation. Sheffield Will participate in storm water study in Lorain County, and will develop retention ponds, detention structures, and	4.5	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
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4.6 distribution systems. Engineered HMA; Other SHEFFIELD VILLAGE GOAL 1: Sheffield will advocate and educate officials and residents about the need to develop countywide storm water management planning and regulation. Sheffield Sheffield will participate in storm water study in Lorain County, and will develop retention ponds, detention structures, and		structures.								
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Village 1.1 and will develop retention ponds, detention structures, and			evelop co I			anagement I		g and regulation.	T	_, .
				Ongoing			0		5/1/22	5/1/27
vegetative buffers to lessen flooding in downstream areas.	Village 1.1	· · · · · · · · · · · · · · · · · · ·								
		vegetative buffers to lessen flooding in downstream areas.								

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action	Character than the control of the co	ļ ,	ļ	,,	Source	Cost		5/4/00	5/4/07
Sheffield	Sheffield will establish and support economic development		Ongoing			0		5/1/22	5/1/27
Village 1.2	standards that utilize current building codes, zoning standards,								
	and other land use planning regulations that take into consideration the effect of development on storm water and								
	flooding effects.								
GOAL2: The	e Village of Sheffield will reduce the negative effects of flooding on village re	esidents a	nd propert	ties.	•				
Sheffield	Sheffield will advocate for the proper maintenance of streams,		Ongoing			0		5/1/22	5/1/27
Village 2.1	ditches, and rivers to reduce debris and vegetation that causes								
	water to back up and flood areas inside the city and upstream								
	from the city.								
Sheffield	Sheffield will advocate for property owners in floodplains to		Ongoing			0		5/1/22	5/1/27
Village 2.2	carry flood insurance as a way to protect and mitigate flood								
	losses.								
Sheffield	Sheffield support current FEMA floodplain mapping by federal,		Ongoing			0		5/1/22	5/1/27
Village 2.3	state, and local agencies.								
Sheffield	Sheffield will identify, establish, and maintain erosion control		Ongoing			0		5/1/22	5/1/27
Village 2.4	measures along streams, ditches and rivers, as well as along the								
	shoreline of Lake Erie.								
Sheffield	Sheffield will implement the proper maintenance of storm		Ongoing			0		5/1/22	5/1/27
Village 2.5	sewers and water lines to minimize flooding and maximize the								
	ability for the city to manage storm runoff.								
Sheffield	Sheffield will identify and complete projects that acquire,		Ongoing			0		5/1/22	5/1/27
Village 2.6	relocate, and demolish repetitive flood loss structures.								
Sheffield	Sheffield will create retention ponds, vegetative buffer zones,		Ongoing			0		5/1/22	5/1/27
Village 2.7	natural habitats, and barriers where flooding waterways cause								
	repeated damages to properties that cannot feasibly be relocated								
	or otherwise protected.								
	e Village of Sheffield will improve warning and notification for residents.	1				1		1	
Sheffield	Sheffield will participate in the development of warning and		Ongoing			0		5/1/22	5/1/27
Village 3.1	notification systems that include digital methods of contact								
	including text messaging, emails, as well as outdoor sirens to								
	warn residents and workers of immediate dangers and inclement weather conditions.								
	weather conditions.								

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action				7.00.011.7,60	Source	Cost			
	e Village of Sheffield will improve protective actions available during severe	storms.	1		_	1		•	
Sheffield	Sheffield will provide safe room programs for residents who live		Ongoing			0		5/1/22	5/1/27
Village 4.1	in congregate housing developments and mobile homes without								
	shelters for tornadoes and other severe wind incidents.								
GOAL 5: The	<u> </u> e Village of Sheffield will harden utility services during storms and disasters	<u> </u>			Ţ		<u> </u>		
Sheffield	Sheffield will collaborate with utility providers to improve and		Ongoing			0		5/1/22	5/1/27
Village 5.1	harden utility services by burying utility lines in new and								
	renovated residential areas, and by replacing old worn supply								
	lines in older neighborhoods.								
GOAL 6: The	e Village of Sheffield will conduct public outreach and education programs to	o minimiz	e the loss o	of life and prope	erty during	disaster	S.		
Sheffield	Sheffield will conduct educational programs for children and		Ongoing			0		5/1/22	5/1/27
Village 6.1	families regarding flood safety, fire safety and prevention, and								
	weather awareness and safety during storms and disasters.								
Sheffield	Sheffield will create information to be posted electronically for		Ongoing			0		5/1/22	5/1/27
Village 6.2	resident and worker safety during and after an earthquake.								
Sheffield	Sheffield will educate the public about heat and cold		Ongoing			0		5/1/22	5/1/27
Village 6.3	emergencies and how to be safe and secure during those times as								
	a way to minimize the emergency needs of the city during								
	temperature extremes, and to minimize how badly safety forces								
	are overwhelmed during those times.								
GOAL 7: SH	EFFIELD VILLAGE WILL PROTECT AND IMPROVE INFRASTRUCTURE TO R	EDUCE D	AMAGES 1	O CRITICAL SY	STEMS.				
Sheffield	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Village 7.1	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
Sheffield	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
Village 7.2	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
Sheffield	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Village 7.3	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
Sheffield	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Village 7.4	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.				Other				

Mitigation	I		1		Funding	Est.			
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	End Date
Sheffield Village 7.5	Conduct appropriate studies (hydrology and hydraulics, storm water and sewer, inundation, and others) to determine the root cause of flooding and water management issues and identify vulnerable populations and		New	Property Protection	Local; HMA; Other	0	Mayor	5/1/22	5/1/27
Sheffield	Structures. Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
	distribution systems.		New	Engineered	HMA; Other	0	iviayoi	3/1/22	3/1/2/
SHEFFIELD	LAKE		•	ı		J			
GOAL 1: Th	e City of Sheffield Lake will educate the community about the notification sy	stems tha	at warn the	em of impendin	g disasters a	and the	actions they should	d take immediat	ely to protect
themselves	and their property.								
Sheffield Lake 1.1	Sheffield Lake will investigate and identify communication tools such as text messages, phone call systems, and others, perhaps as part of a countywide system, to effectively notify the community of impending danger and/or inclement weather risks.		Ongoing			0		5/1/22	5/1/27
Sheffield Lake 1.2	Sheffield Lake will improve the communication systems between first responders and other critical resources in the event of an emergency or disaster.		Ongoing			0		5/1/22	5/1/27
Sheffield Lake 1.3	Sheffield Lake will develop partnerships with Lorain County Emergency Management and other agencies to develop information dissemination capabilities that might include 2-1-1 and other community agencies, and would enhance the community's ability to communicate with all populations, including those with functional and special needs.		Ongoing			0		5/1/22	5/1/27
Sheffield Lake 1.4	Sheffield Lake will effectively identify and communicate with special populations within the jurisdiction as it relates to disasters, warning and notification, and response.		Ongoing			0		5/1/22	5/1/27
Sheffield Lake 1.5	Sheffield Lake will educate the community about evacuation procedures and how to identify shelter locations, comfort stations, and service centers during disasters.		Ongoing			0		5/1/22	5/1/27
GOAL 2: Th	e City of Sheffield Lake will improve protective options for residents during	severe st	torms and	disasters.					

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Sheffield Lake 2.1	Sheffield Lake will establish sites to be used as shelters, comfort stations, and service centers during disasters, and will strive to equip these sites with the features necessary to adequately serve the community during storms, power outages, and other disasters.		Ongoing			0		5/1/22	5/1/27
GOAL 2: The	e City of Sheffield Lake will identify and implement a water supply plan for e	mergen	y purpose	s that support	sunnlament	orser	e in place of a mu	inicipal or count	water supply
during large		inei gene	y pui pose	s triat support,	supplement	, or serv	re in place of a file	incipar or county	water suppry
Sheffield	Sheffield Lake will construct ponds with the capability of being		Ongoing			0		5/1/22	5/1/27
Lake 3.1	used as an alternate water supply, and that are equipped with dry hydrants.								
GOAL 4: The	e City of Sheffield Lake will conduct public outreach and education for prope	rty owne	rs to reduc	e the effects of	disasters.	<u></u>		<u> </u>	
Sheffield Lake 4.1	Sheffield Lake will educate about and advocate to property owners good regular maintenance practices that result in preventing excessive damages to structures during storms, such as ditch bank maintenance, trimming trees, and clearing excessive vegetation from streams and waterways.		Ongoing			0		5/1/22	5/1/27
GOAL 5: The	Lecty of Sheffield Lake will develop projects to lessen the damages to prop	ı ertv from	flooding.		<u> </u>	<u> </u>		!	
Sheffield Lake 5.1	Sheffield Lake will use acquisition and demolition projects to remove repetitive loss structures and prevent further losses.	,	Ongoing			0		5/1/22	5/1/27
Sheffield Lake 5.2	Sheffield Lake will construct retention ponds to hold runoff waters during periods of heavy precipitation.		Ongoing			0		5/1/22	5/1/27
Sheffield Lake 5.3	Sheffield Lake will improve storm sewer systems to more adequately manage runoff water for all areas and thus prevent/lessen flooding in residential and/or commercial properties.		Ongoing			0		5/1/22	5/1/27
Sheffield Lake 5.4	Sheffield Lake will identify and develop elevation options for roadways, streets, and other infrastructure that is negatively affected by flooding on a regular basis.		Ongoing			0		5/1/22	5/1/27
GOAL 6: The	e City of Sheffield Lake will work with utility providers to harden utility serv	ices and t	o prevent	avcessive outa	l ses during s	torms a	nd inclement west	 ther	<u> </u>
Sheffield Lake 6.1	Sheffield Lake will bury power and utility lines in new neighborhoods, homes, and businesses.	ices and t	Ongoing	EACESSIVE OULD	ses uur irig S	0	nu muement wea	5/1/22	5/1/27
Sheffield Lake 6.2	Sheffield Lake will replace aging and deteriorating power, water, sewer, and other utility distribution systems.		Ongoing			0		5/1/22	5/1/27

Mitigation Action	Details	Priority	Status	Action Type	Funding Source	Est. Cost	Project Lead	Start Date	End Date
Sheffield	 Sheffield Lake will develop protective actions to prevent or	<u> </u> 	Ongoing		Jource	0	 	5/1/22	5/1/27
Lake 6.3	lessen the likelihood of damage to water treatment and/or		Origonia					3/1/22	3/1/2/
Lake 0.5	distribution systems during disasters and inclement weather.								
Sheffield	Sheffield Lake will work with wireless service providers to		Ongoing			0		5/1/22	5/1/27
Lake 6.4	establish dependable and resilient wireless service within the		Origoirig					3/1/22	3/1/2/
Lake 0.4	jurisdiction to improve the capability to communicate during								
	inclement weather and disasters.								
			<u> </u>		<u> </u>				
	e City of Sheffield Lake will improve location identification capability to lowe	r respons		d increase acc	uracy in resp	1	1	F /4 /22	E /4 /27
Sheffield	Sheffield Lake will improve GIS mapping and addressing within		Ongoing			0		5/1/22	5/1/27
Lake 7.1	the community so that first responders and service providers can								
	more easily locate and assist victims at particular residences and								
	businesses.								
	e City of Sheffield Lake will improve recovery times by more effectively ma	naging st		-up.	_			T	
Sheffield	Sheffield Lake will identify and approve disposal sites for disaster		Ongoing			0		5/1/22	5/1/27
Lake 8.1	debris, including segregated solid waste such as construction								
	materials, wood and combustible waste, masonry and concrete								
	waste, metal waste, paper and general garbage, and hazardous								
	waste.								
GOAL 9: SH	EFFIELD LAKE WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDI	JCE DAM	AGES TO	CRITICAL SYSTI	MS.				
Sheffield	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Lake 9.1	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
Sheffield	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
Lake 9.2	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
Sheffield	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Lake 9.3	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
Sheffield	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
Lake 9.4	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.				Other				

impending danger or inclement weather. GOAL 2: The Village South Amherst will participate in countywide planning to assess 2.1 and manage storm water to minimize flooding across the county. GOAL 3: The Village of South Amherst will participate in a countywide storm water assessment. S Amherst South Amherst will participate in a countywide storm water assessment. S Amherst South Amherst will participate in a countywide planning to assess and 3.1 manage storm water to minimize flooding across the county. GOAL 4: The Village of South Amherst will harden utility supplies during disasters. S Amherst South Amherst will bury utility lines for all new construction. S Amherst South Amherst will bury utility lines for all new construction. S Amherst South Amherst will make improvements to the storm sewer 4.2 system in the village to lessen flooding by facilitating good and rapid drainage capabilities. S Amherst South Amherst will develop a redundant water supply for the 4.3 village with the purpose of lessening water outages when intake is impeded by extremely cold weather. GOAL 5: The Village of South Amherst will support improvements and clarity to emergency communications components. S Amherst South Amherst will improve GIS mapping for the village to Ongoing 0 5/1/22 5/1/27 5/1/2	Mitigation				I	F. malina	Гоф			
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GOAL 4: The Village of South Amherst will harden utility supplies during disasters. S Amherst South Amherst will bury utility lines for all new construction. Ongoing O 5/1/22 5/1/27 4.1 S Amherst South Amherst will make improvements to the storm sewer System in the village to lessen flooding by facilitating good and rapid drainage capabilities. South Amherst will develop a redundant water supply for the village with the purpose of lessening water outages when intake is impeded by extremely cold weather. Ongoing O 5/1/22 5/1/27 GOAL 5: The Village of South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O 5/1/22 5/1/27 S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O 5/1/22 5/1/27 S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O 5/1/22 5/1/27 S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to	S Amherst	South Amherst will participate in countywide planning to assess and		Ongoing			0		5/1/22	5/1/27
GOAL 4: The Village of South Amherst will harden utility supplies during disasters. S Amherst South Amherst will bury utility lines for all new construction. Ongoing O 5/1/22 5/1/27 4.1 S Amherst South Amherst will make improvements to the storm sewer system in the village to lessen flooding by facilitating good and rapid drainage capabilities. South Amherst will develop a redundant water supply for the village with the purpose of lessening water outages when intake is impeded by extremely cold weather. Ongoing O 5/1/22 5/1/27 GOAL 5: The Village of South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O 5/1/22 5/1/27 S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O 5/1/22 5/1/27 S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O 5/1/22 5/1/27 S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific Ongoing O S/1/22 S/1/27	3.1	manage storm water to minimize flooding across the county.								
4.1 South Amherst will make improvements to the storm sewer system in the village to lessen flooding by facilitating good and rapid drainage capabilities. S Amherst South Amherst will develop a redundant water supply for the village with the purpose of lessening water outages when intake is impeded by extremely cold weather. GOAL 5: The Village of South Amherst will support improvements and clarity to emergency communications components. S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific	GOAL 4: The				•		•			
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system in the village to lessen flooding by facilitating good and rapid drainage capabilities. S Amherst South Amherst will develop a redundant water supply for the village with the purpose of lessening water outages when intake is impeded by extremely cold weather. GOAL 5: The Village of South Amherst will support improvements and clarity to emergency communications components. S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific	4.1									
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is impeded by extremely cold weather. GOAL 5: The Village of South Amherst will support improvements and clarity to emergency communications components. S Amherst South Amherst will improve GIS mapping for the village to Ongoing 0 5/1/22 5/1/27 5.1 eliminate confusion when first responders must find specific Ongoing O 5/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Amherst South Amherst will improve GIS mapping for the village to Ongoing O S/1/22 S/1/27 S Am	S Amherst	South Amherst will develop a redundant water supply for the		Ongoing			0		5/1/22	5/1/27
GOAL 5: The Village of South Amherst will support improvements and clarity to emergency communications components. S Amherst South Amherst will improve GIS mapping for the village to eliminate confusion when first responders must find specific 5/1/27	4.3	village with the purpose of lessening water outages when intake								
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	S Amherst	South Amherst will improve GIS mapping for the village to	_	Ongoing		_	0		5/1/22	5/1/27
locations.	5.1	eliminate confusion when first responders must find specific								
		locations.								

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action			ļ	'''	Source	Cost		ļ	
	South Amherst will improve communications interoperability		Ongoing			0		5/1/22	5/1/27
5.2	between local first responders as well as between village								
	responders and other adjacent and county departments.								
	e Village of South Amherst will improve shelter capacity in the village.		•				,		
	South Amherst will facilitate placement of safe rooms on		Ongoing			0		5/1/22	5/1/27
6.1	properties that lack wind-safe shelter.								
GOAL 7: SO	UTH AMHERST WILL PROTECT AND IMPROVE INFRASTRUCTURE TO RE	DUCE DA	MAGES TO	CRITICAL SYS	TEMS.				
S. Amherst	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
7.1	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
S. Amherst	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
7.2	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
S. Amherst	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
7.3	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
S. Amherst	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
7.4	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.				Other				
S. Amherst	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
7.5	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;				
	water management issues and identify vulnerable populations and				Other				
	structures.								
S. Amherst	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
7.6	distribution systems.			Engineered	нма;				
					Other				
VERMILION	V								
GOAL 1: The	e City of Vermilion will lessen the negative effects of flooding within the city	•							
Vermilion	Vermilion will use acquisition and relocation programs for		Ongoing			0		5/1/22	5/1/27
1.1	repetitive flood loss properties.					<u> </u>			
Vermilion	Vermilion will educate property owners and advocate for flood		Ongoing			0		5/1/22	5/1/27
1.2	insurance coverage for properties in locations where flood								
	damage is likely.								

Mitigation					Funding	Est.			
Action	Details	Priority	Status	Action Type	Source	Cost	Project Lead	Start Date	End Date
Vermilion	Vermilion will acquire properties prone to flooding, and to	Ī	Ongoing		Ī	0		5/1/22	5/1/27
1.3	restore the properties to a natural state, as appropriate, through								
	cooperation with park and recreations groups, conservation								
	groups, state agencies, and other appropriate resources.								
Vermilion	Vermilion will improve storm sewer systems to more adequately		Ongoing			0		5/1/22	5/1/27
1.4	manage runoff water for all areas and thus prevent or lessen								
	flooding in residential and/or commercial properties.								
Vermilion	Vermilion will use beach nourishment and vegetation to protect		Ongoing					5/1/22	5/1/27
1.5	recreational areas and beaches from the damage caused by high								
	lake levels and coastal flooding.								
Vermilion	Vermilion will use bulkheads, structurally engineered drainage		Ongoing					5/1/22	5/1/27
1.5	systems, revetments, regrading and terracing, and seawalls to								
	protect infrastructure and critical resources like roads, bridges								
	and utilities from damages caused by coastal flooding, extremely								
	high lake levels and other types of flooding and wind storms.								
GOAL 2: The	l e City of Vermilion will ensure the availability of potable drinking water for	l residents	during ext	remely cold pe	l riods or ext	ended c	old periods.		
Vermilion	Vermilion will identify, design, and implement improvements to		Ongoing			0		5/1/22	5/1/27
2.1	water supply intake systems to lessen the negative effect of ice								
	jams on the water supply.								
Vermilion	Vermilion will maintain relationships with water providers such		Ongoing			0		5/1/22	5/1/27
2.2	as Erie County, Lorain, and Northern Ohio Rural Water to								
	provide a redundant water supply when intake sources are not								
	operational for the city's normal water system.								
GOAL 3: The ownership.	e City of Vermilion will develop and sustain resilient utility services through	communi	ication with	property own	ers that adv	ocate a	nd educate them a	bout responsible	e property
Vermilion	Vermilion will advocate regular and effective tree trimming,		Ongoing			0		5/1/22	5/1/27
3.1	debris management, and ditch maintenance for private property		Oligoling					3/1/22	3/ 1/ 2/
J. 1	owners.								
Vermilion	Vermilion will identify funding for and purchase alternate power		Ongoing			0		5/1/22	5/1/27
3.2	supplies for critical facilities within the city.		Oligonig					3/1/22	3/1/2/
J. Z	Supplies for critical facilities within the city.				Ĺ			<u> </u>	

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action		ļ	<u> </u>		Source	Cost			
Vermilion	Vermilion will identify funding for and purchase at least one		Ongoing			0		5/1/22	5/1/27
3.3	large, portable generator to be used to sustain critical services on								
	site during storms or aftermath.								
GOAL 4: The	e City of Vermilion will maintain public outreach efforts to lessen the effects	of natura	l disasters	on the residen	ts of the city	<i>i</i> .			
Vermilion	Vermilion will maintain their municipal warning and notification system.		Ongoing			0		5/1/22	5/1/27
4.1									
Vermilion	Vermilion will distribute educational materials about		Ongoing			0		5/1/22	5/1/27
4.2	evacuation, shelters, and comfort stations to the residents for								
	their use and safety during evacuations and severe storms.								
GOAL 5: VE	RMILION WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUCE	DAMAGE	S TO CRIT	ICAL SYSTEMS			•	•	
Vermilion	Maintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.1	management systems, and associated structures, such as curbs and			Engineered	нма;				
	stormwater basins.				Other				
Vermilion	Ensure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
5.2	plans that identify inundation areas and facilitate emergency actions in			Protection					
	the event of a failure.								
Vermilion	Maintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.3	structurally compromised or place the public in danger during a structural			Engineered	нма;				
	failure.				Other				
Vermilion	Where jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.4	and other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
	and heavy precipitation.			J	Other				
Vermilion	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
5.5	sewer, inundation, and others) to determine the root cause of flooding and			Protection	нма;		,		
	water management issues and identify vulnerable populations and				Other				
	structures.								
Vermilion	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
5.6	distribution systems.			Engineered	HMA;				
	,				Other				
WELLINGTO	DN				1				
	e Village of Wellington will improve warning and notification systems								

GOAL 1: The Village of Wellington will improve warning and notification systems

Mitigation						-			
_	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action					Source	Cost	ļ -		
	/ellington will expand the outdoor warning siren system to		Ongoing			0		5/1/22	5/1/27
	arden and improve warning and notification capabilities. As								
	ne geographic footprint of the community has expanded, and								
	evelopment on the periphery of the village has occurred, the								
	urrent central siren needs to be improved with the installation								
	foutlying sirens to more effectively inform the public. The								
	urrent system does not have a verbal warning capability, so that								
wi	rill be considered as a feature in a new system.								
Wellington W	/ellington will install additional siren/voice notification nodes		Ongoing			0		5/1/22	5/1/27
1.2 at	t strategic locations to improve warning capabilities.								
GOAI 2: Welling	igton, through its Electric Department, will create a redundant and separ	ate electi	rical grid in	terconnection t	to harden ut	ility ser	vices and to preve	nt excessive out	ages during
storms and incl	clement weather.								
Wellington W	/ellington will build a new substation that will be a second		Ongoing			0		5/1/22	5/1/27
2.1 int	terconnection to the grid power supply and will be fed by a								
ser	eparate distribution line from the area electrical transmission								
со	ompany. This will provide redundancy at both the local								
int	terconnection level and at the distribution level and should								
sig	gnificantly harden the utility to storm impacts.								
GOAL 3: WELLI	INGTON WILL PROTECT AND IMPROVE INFRASTRUCTURE TO REDUC	E DAMAG	SES TO CR	TICAL SYSTEM	S.				
Wellington Ma	laintain, repair, upgrade, and/or replace storm sewers, wastewater		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
3.1 ma	anagement systems, and associated structures, such as curbs and			Engineered	нма;				
stc	ormwater basins.				Other				
Wellington En	nsure that high hazard and classified dams have appropriate emergency		New	Property	Local	0	Mayor	5/1/22	5/1/27
3.2 pla	ans that identify inundation areas and facilitate emergency actions in			Protection					
the	ne event of a failure.								
Wellington Ma	laintain, repair, and replace dams and upground reservoirs that are		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
3.3 str	ructurally compromised or place the public in danger during a structural			Engineered	нма;				
fai	ilure.				Other				
Wellington Wi	here jurisdictions allow, improve and repair roadways, bridges, culverts,		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
3.4 and	nd other transportation infrastructure that is damaged by rapid runoff			Engineered	нма;				
J all									

2022 Lorain County Hazard Mitigation Plan

Section 3: Mitigation Strategies

Mitigation	Details	Priority	Status	Action Type	Funding	Est.	Project Lead	Start Date	End Date
Action		!!	!	!	Source	Cost			
Wellington	Conduct appropriate studies (hydrology and hydraulics, storm water and		New	Property	Local;	0	Mayor	5/1/22	5/1/27
3.5	sewer, inundation, and others) to determine the root cause of flooding and			Protection	HMA;				
	water management issues and identify vulnerable populations and				Other				
	structures.								
Wellington	Maintain, repair, upgrade, and/or replace water treatment and		New	Structurally	Local;	0	Mayor	5/1/22	5/1/27
3.6	distribution systems.			Engineered	нма;				
					Other				