

MITIGATION ACTIONS SCORING MATRIX

Purpose

As part of the hazard mitigation planning process, communities are asked to identify specific projects and activities (mitigation actions) that will help their communities achieve the long-term outcomes related to specific hazards. The status of each previously identified mitigation action is reviewed during the Hazard Mitigation Planning Process to determine the progress being made towards the County's hazard-specific goals.

The purpose of the Mitigation Actions Scoring Matrix is to determine which mitigation actions are ongoing, deleted, completed, or deferred for each community within Montgomery County. Scores collected from this Mitigation Actions Scoring Matrix will be used to decide how the mitigation actions will be prioritized, administered, and incorporated into Montgomery County's existing planning mechanisms.

Instructions

To complete this matrix, please confirm the status of each mitigation action listed for your jurisdiction. Please score it from 1-5 for each category described below. For each category, a rating of 1 is the lowest score, a rating of 3 is neutral/unsure, and a rating of 5 is the highest score.

1. Cost Effective – Rank 1 – 5 – the cost effectiveness of each proposed mitigation action, with 5 being the most cost effective and 1 being the least cost effective.
2. Technically Feasible – Rank 1 – 5 – the feasibility of each proposed mitigation action, with 5 being the most feasible and 1 being the least feasible.
3. Environmentally Sound – Rank 1 – 5 – the proposed mitigation action in terms of how environmentally sound it seems, with 5 being the most sound and 1 being the least sound.
4. Immediate Need – Rank 1 – 5 – whether each proposed mitigation action is needed immediately, with 5 being the most immediate need and 1 being not an immediate need.
5. Risk Reduction – Rank 1 – 5 – the proposed mitigation action on the extent to which it will reduce the total risk of the associated hazard, with 5 being the greatest contribution to risk reduction and 1 being the least contribution to risk reduction.



NAME:	POSITION:	JURISDICTION:
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Mitigation Action	Jurisdiction	Status	Cost Effective (1-5)	Technically Feasible (1-5)	Environmentally Sound (1-5)	Immediate Need (1-5)	Risk Reduction (1-5)
Identified a need to educate the public about the dangers when driving a vehicle in the snow or fog and intend to develop and launch an educational campaign for the public.	Butler Township	Ongoing					
Identified the need to purchase and install tire chains for all emergency response vehicles.	Butler Township	Ongoing					
One property has been identified as a repetitive flood insurance loss property in Butler Township near the intersection of Kinmont Road and Frederick Pike.	Butler Township	Ongoing					
Several properties have been identified as a repetitive flood insurance loss properties in the City of Brookeville which are the apartment units 306-312 Wolf Creek, Brookeville.	City of Brookeville	Unchanged					
Identified the need to construct a water retention basin for the Chardonay housing development to alleviate flooding problems in this neighborhood.	City of Centerville						
Increase Preparedness for Personnel Deployment.	City of Centerville						



Mitigation Action	Jurisdiction	Status	Cost Effective (1-5)	Technically Feasible (1-5)	Environmentally Sound (1-5)	Immediate Need (1-5)	Risk Reduction (1-5)
Installation of electronic storm window shutters for the Emergency Operations Center.	City of Centerville						
Safe room reinforcement for the Emergency Operations Center.	City of Centerville						
School window blast guards.	City of Centerville						
Identified the need to construct a storm drainage sewer system.	City of Clayton						
Acquire generators for critical facilities in the City of Dayton.	City of Dayton	Ongoing					
Commission a study to determine the best course of action to accomplish a drought resilience wellfield project.	City of Dayton	Ongoing					
Identified need for storm water drainage in Harshman/Brant Pike area. Scope of project to be completed in conjunction with the City of Riverside and the Miami Conservancy District.	City of Dayton	Ongoing					
Electric Generator.	City of Englewood	Completed					



Mitigation Action	Jurisdiction	Status	Cost Effective (1-5)	Technically Feasible (1-5)	Environmentally Sound (1-5)	Immediate Need (1-5)	Risk Reduction (1-5)
Identified need for the comprehensive Severe Weather Package and Fire Safety House. As a result, the city is in the planning process to obtain funding to acquire a mobile educational trailer.	City of Englewood	Ongoing					
Identified the need to purchase and install power generators and power hookups for the severe weather shelters located in the public schools.	City of Englewood	Deferred					
Channel clearing near bridge abutments (Big and Little Twin).	City of Germantown	Ongoing					
Eliminate and address stream bank erosion through planning and infrastructure development.	City of Germantown	Ongoing					
Identified need for the construction of an elevated well in the well head area which is located within the 100-year flood plan.	City of Germantown	Ongoing					
Seek funding to construct tornado safe rooms in public areas and neighborhoods without basements.	City of Germantown	Ongoing					
Replace gate system and install flood warning sign on Rip Rap Road.	City of Huber Heights						

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Seeking funding and planning to install new communications equipment for the Emergency Operations Center (base station, dedicated fax machines, video monitors, and an overhead projector). In addition, the City also identified the need for electronic storm shutters and this project is also in the planning stage.	City of Huber Heights						
Identified a need for updating the siren alert system for severe weather in the City of Kettering.	City of Kettering	Ongoing					



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<p>There are 110 properties located in either the floodway or floodplain areas designated within the Wiles Creek neighborhood. Of the 110 properties, 45 are located within the floodway of the South Blvd creek, and 8 are located within the floodway of the Middle Branch of the Little Beaver Creek. Several of the homes have experienced years of flood damage approximately once every 10-15 years. Within the past 5 years, the City has purchased multiple homes in the floodway area adjacent to the Middle Branch Creek from willing sellers. The homes have been demolished and the area will remain open space. The 8 remaining homes along the floodway of the Middle Branch of the Little Beaver Creek remain the City's top priority for acquisition and demolition. The eventual goal is to have all structures removed from the floodways of both creeks within the Wiles Creek neighborhood in order to restore both creek channels to their natural state. Property acquisition will depend on the availability of funds and the willingness of property owners to sell their property to the City. The estimated cost of acquisition and demolition of the 8 properties along the Middle Branch floodway is \$800,000. The estimated cost of acquisition and demolition of the 45 properties along the South Blvd floodway is \$4,500,000. Update 2018- Purchase one of two properties left in the Lower Branch of the Little Beaver Creek Flood Way, demolish the property and dedicate as permanent open space.</p>	<p>City of Kettering</p>	<p>Ongoing</p>					

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<p>Owl Creek watershed is a 4.7 sq. mile area that includes a portion of West Carrollton /Miami Township and a portion of the city of Miamisburg. This area runs from the Great Miami River upward toward the Dayton Mall. The City of West Carrollton and Miami Township have recently entered into an agreement with the Miami Conservancy District for a hydrological and hydraulic study of the watershed to determine what measures can be taken to reduce flooding within the watershed. Columbus, DLZ Engineering, has been selected for that work, and the contract has been entered into with the firm to complete this work. The study is to be completed in December of this year. Once this study is completed, the city will have a better understanding of what level of flood protection can be completed, the associated costs, and in essence what is feasible to do within this watershed to reduce the risk of flooding. The goal is to remove people from the one-hundred-year flood plain who are currently paying the FEMA flood insurance rates, which are very high and detract from property values. There are approximately 410 houses subject to flooding from Owl Creek within our city.</p>	<p>City of Miamisburg</p>						



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Holes Creek – This project is already underway by the U.S. Army Corps of Engineers and should be completed within the next year or two. This project involves the flood protection along Holes Creek. The area south of the creek has already been protected; however, the Corps of Engineers is seeking additional congressional funding to complete protection for the area on the north side of the creek. Senator Mike DeWine indicated that it appears the funding is progressing smoothly through Congress for this project.	City of Moraine						
Main St. Flood Mitigation Project.	City of Moraine						
The New Lebanon storm drainage system was identified as in need of repairs.	City of New Lebanon						
Winter Storm Preparedness Public Information Campaign.	City of Oakwood						
Several properties have been identified as a repetitive flood insurance loss property in the Village of Phillipsburg. The property addresses are 31, 33, 35, 37 East Main Street and 12, 20 and 38 East Poplar St. in Phillipsburg.	City of Phillipsburg	Ongoing					



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Identified need for storm water drainage in Harshman/Brant Pike area. Scope of project to be completed in conjunction with the City of Riverside and the Miami Conservancy District.	City of Riverside						
Improve storm drainage systems in the Hillside neighborhood.	City of Trotwood	Ongoing					
Public Information Campaign about winter storm preparedness.	City of Trotwood	Ongoing					
To improve storm drainage systems in the Rio Grande neighborhood.	City of Trotwood	Ongoing					
Identified the need to purchase and install power stations for the City's severe weather shelters. The city also identified the need to acquire power hookups for the following potential severe weather shelters: Union School and Two City owned buildings at 216 Shaw rd.	City of Union						



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Ensure that city's critical facilities are equipped with the capability to be connected to one of the city's portable emergency generators via a transfer switch (Public Works facility, Parks Maintenance Facility, and Vandalia Seniors Center facility). This is the last phase of a multi-year project that in recent years has been deferred. This project would be considered as "in the planning stage".	City of Vandalia						
Identified the need to replace or install new power hookups in severe weather shelters (public schools).	City of Vandalia						
Vandalia has identified the need for an additional tornado siren. This project is currently in the planning process.	City of Vandalia						

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Allen Plat – The Allen Plat area is outside of the levee that was built to protect West Carrollton following the 1913 flood of the Great Miami River. The area consists of approximately 122 houses and some businesses. This area is subject to flooding from the Great Miami River and needs a levee system to protect it from flooding. The properties in this area are within the one-hundred-year flood plain and owners are currently paying flood insurance. The City of West Carrollton has been in contact with the U.S. Army Corps of Engineers concerning this matter and the Corps is in the proposing to conduct a feasibility study for constructing flood protection for Allen Plat.	City of West Carrollton						
Elm Street Bridge.	City of West Carrollton						



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<p>Owl Creek watershed is a 4.7 sq. mile area that includes a portion of West Carrollton /Miami Township and a portion of the city of Miamisburg. This area runs from the Great Miami River upward toward the Dayton Mall. The City of West Carrollton and Miami Township have recently entered into an agreement with the Miami Conservancy District for a hydrological and hydraulic study of the watershed to determine what measures can be taken to reduce flooding within the watershed. Columbus, DLZ Engineering, has been selected for that work, and the contract has been entered into with the firm to complete this work. The study is to be completed in December of this year. Once this study is completed, the city will have a better understanding of what level of flood protection can be completed, the associated costs, and in essence what is feasible to do within this watershed to reduce the risk of flooding. The goal is to remove people from the one-hundred-year flood plain who are currently paying the FEMA flood insurance rates, which are very high and detract from property values. There are approximately 410 houses subject to flooding from Owl Creek within our city.</p>	<p>City of West Carrollton</p>						



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Identified the need for tornado shelters within their community.	Clay Township	Ongoing					
Seek funding to construct tornado safe rooms in public areas and neighborhoods without basements.	German Township	Unchanged					
Educational campaign promoting the usage of tone-activated weather radios.	Harrison Township	Ongoing					
Identified the need for storm water drainage in the following areas: Webster Street south of Needmore Rd., Eldorado Plat (Edgewater and Earlwood Area), Shiloh Dr. and Blue Ridge, Keats St. and Keenan St., Walbrook Ave. and Notingham Rd. Replacement of the 6th Area Pump Station because the storm sewer gravity system is ineffective.	Harrison Township	Ongoing					
Install Generators at two Township office buildings.	Harrison Township	Ongoing					
Multiple properties have been identified as repetitive flood insurance loss properties. This project would enable Harrison Township to purchase all properties in Eldorado plat and demolish them due to chronic river flooding.	Harrison Township	Ongoing					

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One property has been identified as a repetitive flood insurance loss property in Harrison Township near the intersection of Cypress Drive and N. Birch Drive.	Harrison Township	Ongoing					
Provide educational programs promoting storm water management best practices for the homeowner to the public.	Harrison Township	Ongoing					
Identified the need for tornado shelters within their community and in partnership with Jackson Township are planning a tornado shelter on E. Walnut Street.	Jackson Township	Ongoing					
Identified the need to purchase a water pump for the lift station at Hemple Road. Installation of a monitoring system for the water tower.	Jackson Township	Ongoing					
Electric Generator.	Jefferson Township	Ongoing					
Snow Emergency Route Information and Public Education Campaign.	Jefferson Township	Ongoing					

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<p>Owl Creek watershed is a 4.7 sq. mile area that includes a portion of West Carrollton /Miami Township and a portion of the city of Miamisburg. This area runs from the Great Miami River upward toward the Dayton Mall. The City of West Carrollton and Miami Township have recently entered into an agreement with the Miami Conservancy District for a hydrological and hydraulic study of the watershed to determine what measures can be taken to reduce flooding within the watershed. Columbus, DLZ Engineering, has been selected for that work, and the contract has been entered into with the firm to complete this work. The study is to be completed in December of this year. Once this study is completed, the city will have a better understanding of what level of flood protection can be completed, the associated costs, and in essence what is feasible to do within this watershed to reduce the risk of flooding. The goal is to remove people from the one-hundred-year flood plain who are currently paying the FEMA flood insurance rates, which are very high and detract from property values. There are approximately 410 houses subject to flooding from Owl Creek within our city.</p>	<p>Miami Township</p>	<p>Deleted (Study completed in 2005 found no cost-effective solution for mitigation)</p>					

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Develop a floodplain management plan to reduce the loss of life and property damage; plan for evacuation and flood fighting; and create public risk awareness of potential flooding in protected areas of dams and levees including possible failure areas.	Miami Conservancy District	Unchanged					

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Perform engineering analysis, engineering design, system monitoring, and construction activities for existing dam and levee structures to reduce potential risk of failure. As of now, three dams have been identified for funding, these are Germantown, Englewood, and Taylorsville dams located in Montgomery County, Ohio.	Miami Conservancy District	Ongoing					
Seek funding for the acquisition, removal, elevation, retrofit, and/or relocation of at-risk structures from flooding. As of now, two properties have been identified as at-risk structures in the Special Flood Hazard Area (SFHA), located at 444 and 450 North Fourth St., Miamisburg, Montgomery County, OH.	Miami Conservancy District	Completed					
Acquire generators for critical facilities in Montgomery County.	Montgomery County	Ongoing					
Contingency plans for checking-in on the shut-in and frail elderly neighbors. Educate the public to encourage the public to create contingency plans.	Montgomery County	Ongoing					
Develop and distribute information about risks associated with the identified natural disasters affecting the County.	Montgomery County	Ongoing					



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Develop and distribute informational brochure on the types of homeowners hazard insurance, e.g. flood, fire, earthquake, etc. Explaining what is required and what is not, but should be.	Montgomery County	Ongoing					
Distribute NOAA Weather Radio featuring SAME technology to Very Low Income and Extremely Low-Income Households.	Montgomery County	Ongoing					
Encourage local jurisdictions to acquire electric generators.	Montgomery County	Ongoing					
Encourage utility companies to hire tree trimming contractors who are capable of a more citizen friendly trimming service.	Montgomery County	Ongoing					
Launch educational campaigns through public/government cable channels and newsletters, websites, street festivals, libraries, school functions, etc.	Montgomery County	Ongoing					
Make the County Natural Hazard Mitigation Plan available to the public by publishing the plan on public website(s).	Montgomery County	Ongoing					
Seek funding to construct tornado safe rooms in public areas and neighborhoods without basements in Montgomery County.	Montgomery County	Ongoing					
Several properties have been identified as a repetitive flood insurance loss property in Montgomery County.	Montgomery County	Ongoing					

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Thirty-one storm drainage ditches and water ways have been identified as at-risk structures in need of maintenance due to local flooding.	Montgomery County Soil & Water Conservation District						
Installation of a storm drainage system to be built in the area bordered by: New Lebanon Municipal Limits on the south, Diamond Mill Road on the east, Little Richmond Rd. on the north, and Johnsville-Brookville Pike on the west.	Perry Township	Ongoing					
One property has been identified as a repetitive flood insurance loss property in Perry Township near the intersection of Thornapple Road and US 35.	Perry Township	Ongoing					
Identified the need for tornado shelters within their community and in partnership with Jackson Township are planning a tornado shelter on E. Walnut Street.	Village of Farmersville	Ongoing					
Identified the need to purchase a water pump for the lift station at Hemple Road. Installation of a monitoring system for the water tower.	Village of Farmersville	Completed					
Identified the need for a drainage project to alleviate some flooding problems in the area of Rahn Road and Grantland Drive.	Washington Township	Ongoing					



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One property has been identified as a repetitive flood insurance loss property in Washington Township near the intersection of Yankee and Mad River Rd.	Washington Township	Ongoing					